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Water Resources Data New York Water Year 1996

Volume 1. Eastern New York excluding Long Island



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NY-96-1
Prepared in cooperation with the State of New York
and with other agencies

CALENDAR FOR WATER YEAR 1996

1995

OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9
15	16	17	18	19	20	21	11	12	13	14	15	16	17	10	11	12	13	14	15	16
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29	30	31					26	27	28	29	30			24	25	26	27	28	29	30
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1996

JANUARY							FEBRUARY							MARCH						
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14	15	16	17	18	19	20	11	12	13	14	15	16	17	10	11	12	13	14	15	16
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28	29	30					26	27	28	29	30	31		23	24	25	26	27	28	29
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7	8	9	10	11	12	13	4	5	6	7	8	9	10	8	9	10	11	12	13	14
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28	29	30	31				25	26	27	28	29	30	31	29	30					



Water Resources Data New York Water Year 1996

Volume 1. Eastern New York excluding Long Island

by G. K. Butch, F. N. Dalton, H. G. Lent, Jr., P. M. Murray



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NY-96-1

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

U.S. DEPARTMENT OF THE INTERIOR

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or <http://ny.usgs.gov>

1997

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 water quality 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

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:

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13. ABSTRACT (<i>Maximum 200 words</i>) Water resources data for the 1996 water year for New York consist of records of stage, discharge, and water quality of streams; stage, content, and water quality of lakes and reservoirs; and ground water levels. This volume contains records for water discharge at 122 gaging stations; stage only at 7 gaging stations; stage and contents at 4 gaging stations, and 18 other lakes and reservoirs; water quality at 28 gaging stations and 1 precipitation-quality station; and water levels at 3 observation wells. Also included are data for 33 crest-stage partial-record stations. Location of all these sites are shown on figure 8. Additional water data were collected at various sites not in the systematic data-collection program and are published as miscellaneous measurements and analyses. These data, together with the data in volumes 2 and 3, represent that part of the National Water Data System operated by the U.S. Geological Survey in cooperation with State, Municipal, and Federal agencies in New York.			
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in separate sections of the data report. See reference at the end of
this list for page numbers for these sections.

(Letter after station name designates type of data: (d) discharge, (e) elevation, (g) gage
height, (v) contents, (c) chemical, (b) biological, (s) sediment, (m) minor element,
(p) pesticide, (n) nutrient, (o) organic, (r) radiochemical, (t) water temperature]

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* * * * *

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in eastern New York excluding Long Island 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 a crest-stage partial-record station.

*[Letters after station name designate type of data collected:
(d) discharge, (e) elevation, (g) gage height]*

Station name	Station number	Drainage area (mi ²)	Period of record
Housatonic River Basin			
Tenmile River near Wassaic, NY (d)	01199420	120	1959-61
Swamp River near Dover Plains, NY (d)	01199490	46.6	1961-68
Tenmile River at Dover Plains, NY (d)	01199500	189	1901-04
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Blind Brook at Rye, NY (d)	01300000	9.20	1944-89
Beaver Swamp Brook Basin			
Beaver Swamp Brook at Mamaroneck, NY (d)	01300500	4.59	1944-89
Mamaroneck River Basin			
Mamaroneck River at Mamaroneck, NY (d)	01301000	23.1	1944-89
Hutchinson River Basin			
Hutchinson River at Pelham, NY (d)	01301500	5.76	1944-89
Bronx River Basin			
Bronx River at Bronxville, NY (d)	01302000	26.5	1944-89
Hudson River Basin			
Opalescent River near Tahawus, NY (d)	01311900	9.02	1921-23
Arbutus Pond Outlet near Newcomb, NY (d)	01311992*	1.22	1991-92
Hudson River near Newcomb, NY (d)	01312000*	192	1925-87
Cedar River near Indian Lake, NY (d)	01313000	85.3	1911-18
Cedar River below Chain Lakes near Indian Lake, NY (d)	01313500	160	1931-61
Hudson River at Gooley near Indian Lake, NY (d)	01314000	419	1916-68
North Creek at North Creek, NY (d)	01316000	21.9	1924-32
Schroon River at Riverbank, NY (d)	01317000*	527	1907-70
Schroon River at Warrensburg, NY (d)	01317500	567	1899-1902
Hudson River at Thurman, NY (d)	01318000	1,533	1907-20
East Branch Sacandaga River at Griffin, NY (d)	01319000	114	1933-78
Sacandaga River at Wells, NY (d)	01319500	260	1907-11
West Branch Sacandaga River near Wells, NY (d)	01320500	210	1911-16
West Stony Creek near Northville, NY (d)	01321500	88.0	1933-37
East Stony Creek near Northville, NY (d)	01322000	88.7	1933-37
Sacandaga River at Northville, NY (d)	01322500	712	1907-11
Kennyetto Creek near Broadalbin, NY (d)	01323000	28.3	1939-46
Hudson River at Corinth, NY (d)	01325420	2,755	1904-13
Hudson River at Spier Falls, NY (d)	01326500	2,779	1913-23
Glens Falls Feeder at Glens Falls, NY (d)	01327000		1927-64
Glens Falls Feeder at Dunham Basin, NY (d)	01327500		1945-80
Bond Creek at Dunham Basin, NY (d)	01328000	14.7	1947-82
Batten Kill at Battenville, NY (d)	01329500*	394	1923-68
Hudson River at Schuylerville, NY (d)	01329650	3,440	1977-79
Kayaderoseras Creek near West Milton, NY (d)	01330500	90.0	1927-95
Hoosic River at Buskirk, NY (d)	01335000	577	1903-09
Hudson River at Mechanicville, NY (d)	01335500	4,500	1896-1956
Oriskany Creek at Colemans Mills, NY (g)	01337995	134	1904-06
Oriskany Creek near Oriskany, NY (d)	01338000	139	1901-05
Oriskany Creek at State Dam at Oriskany, NY (d)	01338500	140	1899-1901 1904-05
Sauquoit Creek at New York Mills, NY (d)	01339000	46.6	1898-1900
Mohawk River at Utica, NY (d)	01340000	514	1901-03
Reall Creek near Utica, NY (d)	01340500	5.68	1901-05
Johnston Brook near Utica, NY (d)	01341000	0.62	1903-05
Sylvan Glen Creek near New Hartford, NY (d)	01341500	1.10	1904-07
Graefenberg Creek near New Hartford, NY (d)	01342000	0.35	1903-07
Starch Factory Creek near New Hartford, NY (d)	01342500	3.66	1903-07

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

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Station name	Station number	Drainage area (mi ²)	Period of record
Hudson River Basin--continued			
Steele Creek at Ilion, NY (d)	01342730	26.2	1967-68
West Canada Creek at Nobleboro, NY (d)	01342800*	193	1967-68
West Canada Creek near Hinckley, NY (d)	01343500	360	1900-10
West Canada Creek at Hinckley, NY (d)	01344000	375	1919-59
Ninemile Feeder near Holland Patent, NY (d)	01344500		1919-68
West Canada Creek at Poland, NY (d)	01345000	463	1913-14
West Canada Creek at Middleville, NY (d)	01345500	512	1899-1901
Mohawk River at Little Falls, NY (d)	01346500	1,290	1898-1910
			1912-13
East Canada Creek at Dolgeville, NY (d)	01347500	258	1898-1913
			1928-46
East Canada Creek at East Creek, NY (d)	01348000	289	1946-95
Otsquago Creek at Fort Plain, NY (d)	01349000	61.0	1950-89
Cayadutta Creek near Johnstown, NY (d)	01349500	38.4	1899-1900
Silver Lake Outlet at Hensonville, NY (d)	01349858	6.66	1976-77
West Kill at North Blenheim, NY (d)	01350200	44.6	1975-87
Schoharie Creek at Middleburg, NY (d)	01350500	532	1927-39
Fox Creek at West Berne, NY (d)	01351000	67.2	1924-32
			1962-68
Alplaus Kill near Charlton, NY (d)	01355000	23.7	1913-17
Mohawk River at Vischer Ferry Dam, NY (d)	01356000	3,380	1899-1910
			1913-19
Poesten Kill near Troy, NY (d)	01358500	89.4	1923-68
Mill Creek near East Greenbush, NY (d)	01359150	9.74	1975-77
Hunger Kill at Guilderland, NY (d)	01359513	8.16	1967-77
Normans Kill near Westmere, NY (d)	01359519	131	1968-79
Normans Kill at Albany, NY (d)	01359528*	168	1979-83
Moordener Kill at Castleton-on-Hudson, NY (d)	01359750	32.6	1958-95
Coeymans Creek near Selkirk, NY (d)	01359902	35.1	1967-77
Silver Creek at Dormansville, NY (d)	01359918	2.90	1978-81
Hannicrius Creek near New Baltimore, NY (d)	01359924	61.6	1968-77
Kinderhook Creek near Garfield, NY (d)	01360000	62.8	1893-1895
Kinderhook Creek at East Nassau, NY (d)	01360500	116	1892-1893
Kinderhook Creek at Rossman, NY (d)	01361000*	329	1906-14
			1928-68
Claverack Creek at Claverack, NY (d)	01361200	60.6	1960-68
			1993-95
Catskill Creek at Oak Hill, NY (d)	01361500*	98.0	1929-77
Tenmile Creek at Oak Hill, NY (d)	01361570	35.3	1969-78
Catskill Creek at South Cairo, NY (d)	01362000	270	1901-07
Roeliff Jansen Kill near Hillsdale, NY (d)	01362100*	27.5	1957-60
Esopus Creek near Olivebridge, NY (d)	01363500	239	1903-04
			1907-14
Esopus Creek at Kingston, NY (d)	01364000	317	1901-09
Saw Kill at Red Hook, NY (d)	01364800	20.9	1959-66
Chestnut Creek above Red Brook at Grahamsville, NY (d)	01365450	12.2	1937-39
Chestnut Creek at Grahamsville, NY (d)	01365500	20.9	1939-87
Rondout Creek near Lackawack, NY (d)	01366500	100	1932-67
Sandburg Creek at Ellenville, NY (d)	01366650	56.7	1957-77
Wallkill River near Unionville, NY (d)	01368000	140	1937-81
Rutgers Creek at Gardnerville, NY (d)	01368500*	59.7	1943-68
Pochuck Creek near Pine Island, NY (d)	01369000	98.0	1937-77
Quaker Creek at Florida, NY (d)	01369500	9.69	1937-79
Wallkill River at Pellets Island, NY (d)	01370000	380	1920-68
Wallkill River near Phillipsburg, NY (d)	01370500	406	1937-59
Crystal Brook near Middletown, NY (d)	01370600	8.41	1964-68
Shawangunk Kill at Pine Bush, NY (d)	01371000	102	1924-32
			1957-71
			1989-93
Wallkill River at New Paltz, NY (d)	01372000	739	1901-04
Crum Elbow Creek at Hyde Park, NY (d)	01372040	17.3	1959-62
Fall Kill at Poughkeepsie, NY (d)	01372051	18.8	1993-95
Casper Creek near Wappingers Falls, NY (d)	01372065	10.1	1969-76
East Branch Wappinger Creek near Clinton Corners, NY (d)	01372100	33.6	1956-63
Wappinger Creek near Clinton Corners, NY (d)	01372200	92.4	1956-76
Little Wappinger Creek at Salt Point, NY (d)	01372300	32.9	1956-76
Great Spring Creek at Pleasant Valley, NY (d)	01372400	15.5	1960-66
Fishkill Creek at Hopewell Junction, NY (d)	01372800*	57.3	1958-76
Whortlekill Creek at Hopewell Junction, NY (d)	01372850	7.37	1959-68
Fishkill Creek at Beacon, NY (d)	01373500	190	1944-68
Seely Brook near Chester, NY (d)	01373600	12.8	1964-68
Woodbury Creek near Highland Mills, NY (d)	01373690	11.2	1966-68
Lake Tiorati Brook at Cedar Flats, NY (d)	01374420	10.6	1960-63

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

Station name	Station number	Drainage area (mi ²)	Period of record
Hudson River Basin--continued			
Cedar Pond Brook at Stony Point, NY (d)	01374440	17.3	1960-62
Minisceongo Creek at Thiells, NY (d)	01374480	15.1	1960-63
Bird Brook near Croton, NY (d)	01375500	0.40	1933-38
			1940-41
Sparkill Creek at Tappan, NY (d)	01376270	4.71	1960-63
			1965-66
Sparkill Creek at Tappan Station, NY (d)	01376275	9.42	1965-66
Sparkill Creek at Sparkill, NY (d)	01376280	10.7	1959-68
			1976-78
Saw Mill River at Yonkers, NY (d)	01376500	25.6	1944-89
			1993-95
Hackensack River Basin			
Hackensack River at Brookside Park, NY (d)	01376600	13.2	1960-63
Nauraushaun Brook at Nauraushaun, NY (d)	01376850	5.89	1960-63
Hackensack River at Nauraushaun, NY (d)	01376900	44.6	1960-62
Pascack Brook Tributary at Spring Valley, NY (d)	01377200	4.19	1960-62
Pascack Brook at Pearl River, NY (d)	01377300	9.83	1959-63
Passaic River Basin			
Ramapo River at Sloatsburg, NY (d)	01387250	60.1	1959-63
Stony Brook at Sloatsburg, NY (d)	01387300	18.2	1960-62
Mahwah River near Suffern, NY (d)	01387450	12.3	1959-95
Mahwah River at Suffern, NY (d)	01387480	20.8	1959-62
Saddle River near Spring Valley, NY (d)	01390200	2.10	1960-63
Pine Brook near Spring Valley, NY (d)	01390300	2.28	1959-62
Delaware River Basin			
Platte Kill at Dunraven, NY (d)	01414000	35.0	1942-62
Terry Clove Kill near Pepacton, NY (d)	01415500	13.6	1937-62
Fall Clove Kill near Pepacton, NY (d)	01416000	11.3	1942-43
Coles Clove Kill near Pepacton, NY (d)	01416500	28.0	1945-53
Beaver Kill near Turnwood, NY (d)	01418000	40.8	1949-59
Beaver Kill at Craigie Clair, NY (d)	01418500	81.9	1937-70
Willowemoc Creek at DeBruce, NY (d)	01419000	41.2	1949-52
Willowemoc Creek near Livingston Manor, NY (d)	01419500	62.6	1937-70
Little Beaver Kill near Livingston Manor, NY (d)	01420000	20.1	1924-81
East Branch Delaware River at Hancock, NY (d)	01421500	839	1903-13
West Branch Delaware River at Delhi, NY (d)	01422000	142	1937-70
Little Delaware River near Delhi, NY (d)	01422500	49.7	1938-70
West Branch Delaware River near Hamden, NY (d)	01422700	256	1959-67
Dryden Brook near Granton, NY (d)	01423500	8.10	1952-67
Trout Creek near Rockroyal, NY (d)	01424000	20.0	1952-67
Trout Creek at Cannonsville, NY (d)	01424500	49.5	1940-63
Cold Spring Brook at China, NY (d)	01425500	1.49	1935-68
Butler Brook at Deposit, NY (d)	01425642	8.46	1976-77
Oquaga Creek near North Sanford, NY (d)	01425675	4.69	1970-81
Oquaga Creek at Deposit, NY (d)	01426000	67.6	1941-73
West Branch Delaware River at Hancock, NY (d)	01427000	650	1903-13
Delaware River near Callicoon, NY (d)	01427405	1,708	1967-75
Callicoon Creek at Callicoon, NY (d)	01427500*	110	1940-82
Tenmile River at Tusten, NY (d)	01428000	45.6	1946-73
Mongaup River near Rio, NY (d)	01433400	191	1909-13
Mongaup River near Mongaup, NY (d)	01433500	200	1940-95
East Branch Neversink River, east of Ladleton, NY (d)	01434013	18.6	1991-94
West Branch Neversink River at Branch near Frost Valley, NY (d)	0143402265	7.89	1991-94
High Falls Brook at Frost Valley, NY (d)	01434105	2.74	1991-95
West Branch Neversink River near Claryville, NY (d)	01434176	25.3	1991-94
Neversink River at Claryville, NY (d)	01434500	62.0	1949-51
Neversink River at Halls Mills near Curry, NY (d)	01435500	68.7	1938-49
Neversink River at Woodbourne, NY (d)	01436500	113	1938-73
			1978-93
Neversink River at Oakland Valley, NY (d)	01437000	223	1928-73
Streams tributary to Lake Ontario			
Salmon River near Redfield, NY (d)	04249500	188	1911-14
Beaverdam Brook at Altmar, NY (d)	04249910	16.9	1974-76
Orwell Brook near Altmar, NY (d)	04250000	19.0	1911-16
Salmon River near Pulaski, NY (d)	04250500	260	1900-14

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

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Station name	Station number	Drainage area (mi ²)	Period of record
Streams tributary to Lake Ontario--continued			
Sandy Creek near Adams, NY (d)	04250750*	128	1958-95
Forestport Feeder near Boonville, NY (d)	04251000		1916-34
Mill Creek Sluiceway at Boonville, NY (d)	04251500		1934-40
Black River Canal (flowing south) near Boonville, NY (d)	04252000		1915-80
Sugar River at Talcottville, NY (d)	04253000	43.1	1926-32
			1967-68
Panther Lake Outlet near Old Forge, NY (d)	04253275	0.46	1978-82
Middle Branch Moose River at Old Forge, NY (d)	04253500	55.0	1912-73
Middle Branch Moose River near McKeever, NY (d)	04254000	151	1926-68
Moose River at McKeever, NY (d)	04254500*	363	1900-70
Otter Creek near Glenfield, NY (d)	04255000	64.5	1924-33
Independence River at Sperryville, NY (d)	04255500	81.8	1928-42
Cranberry Pond Outlet near Big Moose, NY (d)	04256460	0.58	1984-86
Woods Lake Tributary near Big Moose, NY (d)	04256480	0.13	1980-82
			1984-86
Woods Lake near Big Moose, NY (g)	04256484	0.80	1979-82
Woods Lake Outlet near Big Moose, NY (d)	04256485	0.80	1978-82
			1984-89
			1991-92
Beaver River below Stillwater Dam near Beaver River, NY (d)	04257000	171	1924-87
Beaver River at Eagle Falls near Number Four, NY (d)	04257500	225	1921-25
Beaver River near Croghan, NY (d)	04257955	266	1901-03
Deer River at Copenhagen, NY (d)	04258500	86.6	1929-57
Deer River at Deer River, NY (d)	04258700*	94.8	1957-68
Black River at Black River, NY (d)	04259500	1,842	1897-1914
			1917-20
St. Lawrence River Basin			
Oswegatchie River at Cranberry Lake, NY (d)	04261000	140	1923-82
Oswegatchie River at Newton Falls, NY (d)	04261500	170	1913-23
Oswegatchie River near Ogdensburg, NY (d)	04263500	1,562	1903-17
St. Lawrence River near Waddington, NY (e)	04264050	298,500	1976-86
Sucker Brook near Waddington, NY (d)	04264100	25.6	1961-64
Little Sucker Brook at Waddington, NY (d)	04264200	19.9	1959-61
Brandy Brook near Waddington, NY (d)	04264300	27.0	1959-63
Middle Branch Grass River near Clare, NY (d)	04264400	63.0	1959-61
North Branch Grass River near South Colton, NY (d)	04264500	28.1	1924-32
North Branch Grass River near Clare, NY (d)	04264700	46.3	1958-63
Plumb Brook at Russell, NY (d)	04264800	35.3	1958-60
Grass River at Pyrites, NY (d)	04265000	333	1924-77
Elm Creek near Hermon, NY (d)	04265100*	32.6	1958-68
Tanner Creek at Stellaville, NY (d)	04265200	30.3	1958-61
Little River near Canton, NY (d)	04265300	42.4	1959-61
Grannis Brook at Crary Mills, NY (d)	04265400	20.9	1959-61
Lost Brook near Raquette Lake, NY (d)	0426545290	17.0	1978-80
Sagamore Lake Outlet near Raquette Lake, NY (d)	0426545295	19.1	1978-82
Raquette River near Coreys, NY (d)	04265500	418	1908-13
Little Simon Pond Outlet near Tupper Lake, NY (d)	04265605	2.95	1984-88
Bog River at mouth near Tupper Lake, NY (d)	04266000	132	1908-12
Parkhurst Brook near Potsdam, NY (d)	04267700	16.8	1958-63
Trout Brook at Allen Corners, NY (d)	04267800	54.2	1958-63
Plum Brook near Grantville, NY (d)	04268200*	43.9	1958-63
Raquette River at Massena Springs, NY (d)	04268230	1,196	1904-17
Squeak Brook near Massena, NY (d)	04268300	39.1	1959-61
St. Regis River near Paul Smiths, NY (d)	04268390	22.0	1973-75
East Branch St. Regis River near Meacham Lake, NY (d)	04268600	52.2	1958-68
St. Regis River at St. Regis Falls, NY (d)	04268700	234	1958-68
Lake Ozonia Outlet near St. Regis Falls, NY (d)	04268710	28.3	1961-63
Trout Brook at Stockholm Center, NY (d)	04268900	42.4	1958-61
Deer River at North Lawrence, NY (d)	04269043	78.0	1973-79
Allen Brook near Brasher Falls, NY (d)	04269050	16.0	1961-66
Lawrence Brook near Moira, NY (d)	04269100	25.7	1958-61
Deer River at Brasher Iron Works, NY (d)	04269500	182	1912-16
			1958-68
East Branch Deer Creek at Fort Covington Center, NY (d)	04270150	23.9	1961-62
Farrington Brook near Moira, NY (d)	04270180	17.7	1961-66
Little Salmon River at Bombay, NY (d)	04270200	92.2	1958-95
Chateaugay River near Chateaugay, NY (d)	04270500	112	1908-09
			1927-66
Chateaugay River below Chateaugay, NY (d)	04270510	151	1966-95
Little Trout River near Burke, NY (d)	04270600	27.6	1961-63
Trout River at Trout River, NY (d)	04270700*	107	1960-66
English River near Mooers Forks, NY (d)	04270800	40.8	1960-68

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

Station name	Station number	Drainage area (mi ²)	Period of record
St. Lawrence River Basin--continued			
Saranac River at Saranac, NY (d)	04273000	521	1930-43
Lake Placid at Lake Placid, NY (e)	04273900	20.1	1960-82
West Branch Ausable River near Lake Placid, NY (d)	04274000*	116	1916-68
Black Brook at Black Brook, NY (d)	04274500	49.4	1924-61
East Branch Ausable River at Au Sable Forks, NY (d)	04275000*	198	1925-95
West Brook at Lake George, NY (d)	04276895	8.38	1980-83
English Brook at Lake George, NY (d)	04276920	7.84	1980-83
La Chute at Ticonderoga, NY (d)	04279000	234	1904-06 1943-79

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DISCONTINUED SURFACE-WATER-QUALITY STATIONS

The following continuous-record surface-water-quality stations in eastern New York excluding Long Island have been discontinued. Daily records of suspended-sediment discharge, temperature, or specific conductance were collected and published for the period of record shown for each station. Those stations with an asterisk (*) after the station number are currently operated as a surface-water-quality station (intermittent record).

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

Station name	Station number	Drainage area (mi ²)	Type of record	Period of record
Hudson River Basin				
Hudson River at Glens Falls, NY	01327600	2,807	S.S.	1977
Hudson River at Rogers Island at Fort Edward, NY	01327755*	2,817	S.S.	1978-79
Hudson River at Schuylerville, NY	01329650	3,440	S.S.	1977-79
Glowegee Creek near West Milton, NY	01329995	21.5	Temp.	1967-73
			S.C.	1967-73
Glowegee Creek at West Milton, NY	01330000	26.0	Temp.	1954-73
			S.C.	1965-73
Kayaderoseras Creek near West Milton, NY	01330500	90.0	Temp.	1953-78
Hoosic River near Eagle Bridge, NY	01334500	510	Temp.	1993-95
Hudson River at Mechanicville, NY	01335500	4,500	Temp.	1960-61
Mohawk River below Delta Dam, near Rome, NY	01336000	152	Temp.	1967-72 1974-78
Schoharie Creek at North Blenheim, NY	01350180	358	Temp.	1972-85
Schoharie Creek at Breakabeen, NY	01350355	444	Temp.	1976
Mohawk River at Cohoes, NY	01357500	3,450	Temp.	1956-59
			S.S.	1954-59 1977-79
Hudson River at Green Island, NY	01358000	8,090 (about)	Temp.	1955-81
Mill Creek near East Greenbush, NY	01359150	9.74	S.S.	1975-76
Claverack Creek at Claverack, NY	01361200	60.6	Temp.	1993-95
Esopus Creek at Allaben, NY	01362200	63.7	Temp.	1964-68 1970-95
Crystal Brook near Middletown, NY	01370600	8.41	Temp.	1966-68
Wallkill River at Gardiner, NY	01371500*	695	Temp.	1958 1993-95
Fall Kill at Poughkeepsie, NY	01372051	18.8	Temp.	1993-95
Hudson River at Poughkeepsie, NY	01372055	1,732	Temp.	1967-69
			S.C.	1967-69
Hudson River near Beacon, NY	01372560		Temp.	1966-68
			S.C.	1966-68
Fishkill Creek at Hopewell Junction, NY	01372800	57.3	Temp.	1964-75
Whortlekill Creek at Hopewell Junction, NY	01372850	7.37	Temp.	1963-68
Seely Brook near Chester, NY	01373600	12.8	Temp.	1964-69
Hudson River at West Point, NY	01374020		Temp.	1969
			S.C.	1969
Hudson River at Peekskill, NY	01374310		Temp.	1968-69
			S.C.	1968-69
Saw Mill River at Yonkers, NY	01376500	25.6	Temp.	1993-95

DISCONTINUED SURFACE-WATER-QUALITY STATIONS
(continued)

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Station name	Station number	Drainage area (mi ²)	Period of record	
Delaware River Basin				
Oquaga Creek near North Sanford, NY	01425675	4.69	Temp.	1971-81
Delaware River near Callicoon, NY	01427405	1,708	Temp.	1968-75
Delaware River at Skinners Falls, NY	01427705	1,897	Temp.	1968-71
Delaware River at Port Jervis, NY	01434000	3,070		1974-79
			Temp.	1957-60
				1973-94
			S.C.	1973
			S.S.	1960
Neversink River at Woodbourne, NY	01436500	113		1970-76
			Temp.	1978-93
Streams tributary to Lake Ontario				
Sandy Creek near Adams, NY	04250750	128	Temp.	1981-84
Independence River at Donnattsburg, NY	04256000	88.7	S.C.	1981-84
			Temp.	1960-61
				1964-78
Black River at Watertown, NY	04260500	1,864	Temp.	1956-59
				1962-69
St. Lawrence River Basin				
St. Lawrence River at Cornwall, Ontario-- near Massena, NY	04264331*	298,800	Temp.	1966-86
			S.C.	1976-86
West Brook at Lake George, NY	04276895	8.38	S.S.	1981
English Brook at Lake George, NY	04276920	7.84	S.S.	1981

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WATER RESOURCES DATA FOR NEW YORK, 1996
Volume 1.--Eastern New York excluding Long Island

INTRODUCTION

Water-resources data for the 1996 water year for New York consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; ground-water levels; and precipitation quality. This volume contains records for water discharge at 122 gaging stations; stage only at 7 gaging stations; stage and contents at 4 gaging stations, and 18 other lakes and reservoirs; water quality at 28 gaging stations and 1 precipitation-quality station; and water levels at 3 observation wells. Also included are data for 33 crest-stage partial-record stations. Additional water data were collected at various sites not involved in the systematic data-collection program, and are published as miscellaneous measurements and analyses in this volume. These data together with the data in Volumes 2 and 3 represent that part of the National Water Data System operated by the U.S. Geological Survey in cooperation with State, Municipal, and Federal agencies in New York.

Records of discharge and stage of streams, and contents and 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 water 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 and universities in the United States or may be purchased from the U.S. Geological Survey, Branch of Distribution, 604 South Pickett Street, Alexandria, VA 22304.

Since the 1961 water year, streamflow data and since the 1964 water year, water-quality data have been released by the Geological Survey in annual reports on a State-boundary basis. These reports provided rapid release of water data in each state shortly after the end of the water year. Through 1970 the data were also released in the water-supply paper series mentioned above.

Streamflow and water-quality data beginning with the 1971 water year, and ground-water data beginning with the 1975 water year are published only in reports on a State-boundary basis. Beginning with the 1975 water year, these Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report NY-96-1." Water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

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

COOPERATION

The U.S. Geological Survey and organizations of the State of New York and other agencies have had cooperative agreements for the systematic collection of water records since 1900. Organizations that assisted in collecting data included in Volume 1, water year 1996, through cooperative agreement with the Survey are:

New York State Department of Environmental Conservation
New York State Department of Transportation
County of Ulster, County Legislature
City of New York, Department of Environmental Protection
Village of Nyack
Board of Hudson River-Black River Regulating District
New York Power Authority

Assistance in the form of funds for collecting records at gaging stations published in this report was also given by the following:

U. S. Army Corps of Engineers
U. S. Department of Energy

The following municipalities, organizations, and agencies aided in collecting records:

Plattsburgh
Orange and Rockland Utilities, Inc.
Niagara Mohawk Power Corp.
Oswegatchie River-Cranberry Reservoir Commission
Utica Board of Water Supply
United Water New York
Consolidated Hydro, Inc.
National Weather Service

Organizations that supplied data are acknowledged in station descriptions.

SUMMARY OF HYDROLOGIC CONDITIONS

Surface Water

Streamflows in eastern New York during water year 1996 were much above normal. The distribution of 1996 water-year runoff relative to average runoff for 1960-89 is shown in figure 1 (next page). The highest yearly runoffs (150-160 percent of average) occurred in southeastern parts of the state. Several large storms, including the record-breaking flood of January 19-20, 1996, resulted in record or near-record annual flows at many gaging stations throughout eastern New York. The following table lists several gages with long records of streamflow (period of record is to current year) and presents the 1996 flows for comparison with previous maximum annual discharges.

Station number and name	Period of record	1996 Water year		Previous maximum		Mean annual discharge for period of record (ft ³ /s)
		Mean discharge (ft ³ /s)	Rank compared to period-of-record annual discharges	Discharge (ft ³ /s)	Water year	
01318500-Hudson R at Hadley	1921-	4,062	4	4,574	1976	2,928
01334500-Hoosick R nr Eagle Bridge	1910-	1,355	4	1,611	1976	951
01350000-Schoharie Cr at Prattsville	1902-	757	3	873	1978	461
01351500-Schoharie Cr at Burtonsville	1939-	2,014	1	1,952	1978	1,020
01357500-Mohawk R at Cohoes	1917-	6,891	12	8,270	1972	5,662
01358000-Hudson R at Green Island	1946-	18,300	5	22,100	1976	13,800
01365000-Rondout Cr nr Lowes Corners	1937-	152	1	144	1938	98.4
01372500-Wappinger Cr nr Wappingers Falls	1928-	391	3	438	1973	256
01413500-E Br Delaware R at Margaretville	1937-	475	2	489	1978	306
01420500-Beaver Kill at Cooks Falls	1913-	808	2	937	1928	556
01423000-W Br Delaware R at Walton	1950-	828	2	833	1978	578
01435000-Neversink R nr Claryville	1951-	286	1	280	1960	188
04262500-W Br Oswegatchie R nr Harrisville	1916-	751	3	833	1947	525

The large runoffs of 1996 kept reservoir levels above normal during most of the year. Average month-end contents and 1996 month-end contents of the New York City reservoir system are shown in figure 2A; 1996 month-end contents in Great Sacandaga Lake at Conklingville (in the upper Hudson River basin) are shown with average month-end contents for the period of record (1931-95) in figure 2B.

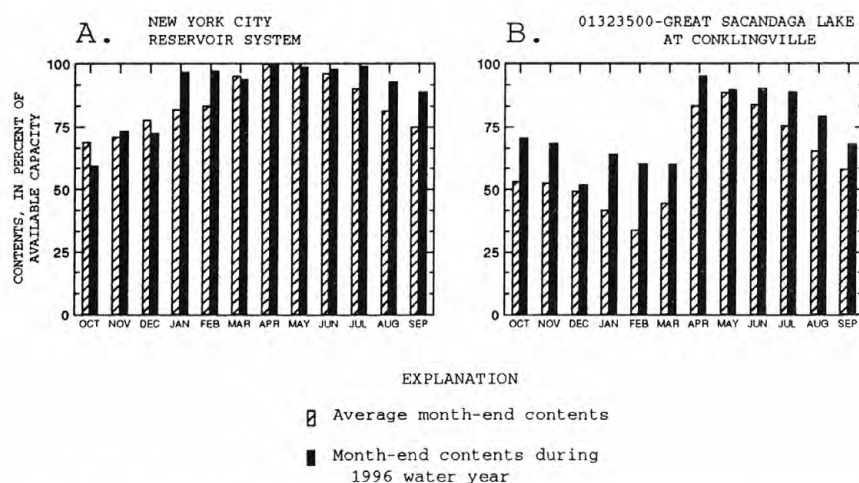


Figure 2.--Comparison of average month-end reservoir contents and month-end contents during 1996 water year for two selected reservoir systems in eastern New York.

The 1996 monthly runoff values for selected streamflow-gaging stations in eastern New York are plotted with each site's 1960-89 average monthly runoff in figure 3. Most sites show that the 1995 summer drought ended with the heavy October and November rains. Rainfall during October was 3 to 9 inches above normal throughout eastern New York, making it the wettest October in more than 100 years. Weather stations at Slide Mountain and East Jewett, both in the Catskill Mountain region, recorded 14 inches of rain for the month (nearly 10 inches above normal), much of which (up to 6 inches) was from a storm on October 21-22. Several streams in northern New York had their maximum discharge for the year on October 22. The above-normal streamflows of October continued into November (a storm on November 12 dumped up to 5 inches of rain over southeastern parts of the State), but had receded to near normal conditions by the end of the month. Reservoir contents in northern New York remained at above-normal levels through November, and the New York City reservoir-system contents rose to about normal by the end of November.

December was the driest December since 1989. Temperatures were below normal, and the below normal precipitation fell mostly as snow, resulting in generally below normal streamflows throughout eastern New York.

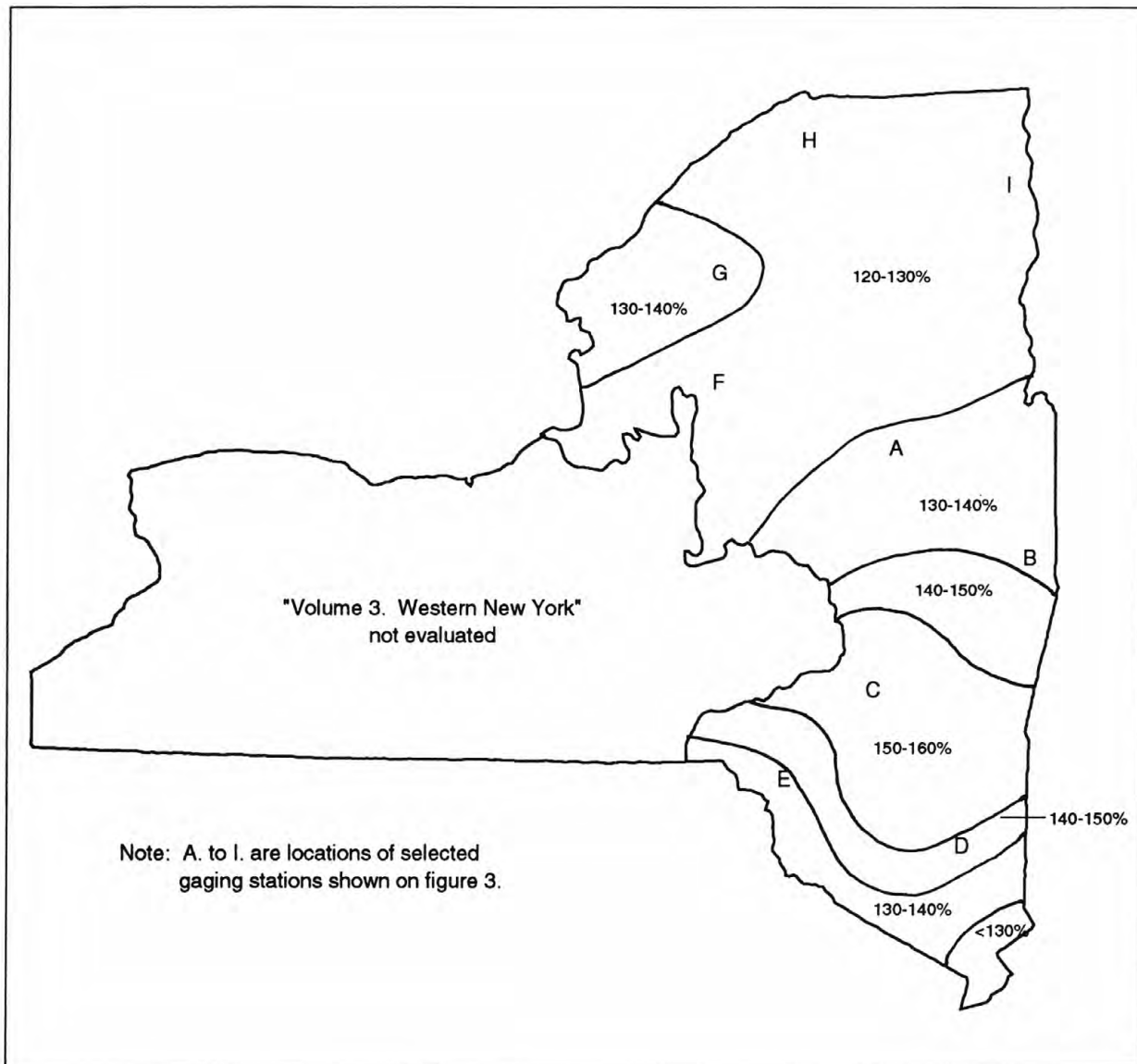


Figure 1.--1996 water year runoff as a percentage of the average annual runoff for 1960-89 for eastern New York excluding Long Island.

SUMMARY OF HYDROLOGIC CONDITIONS--Continued

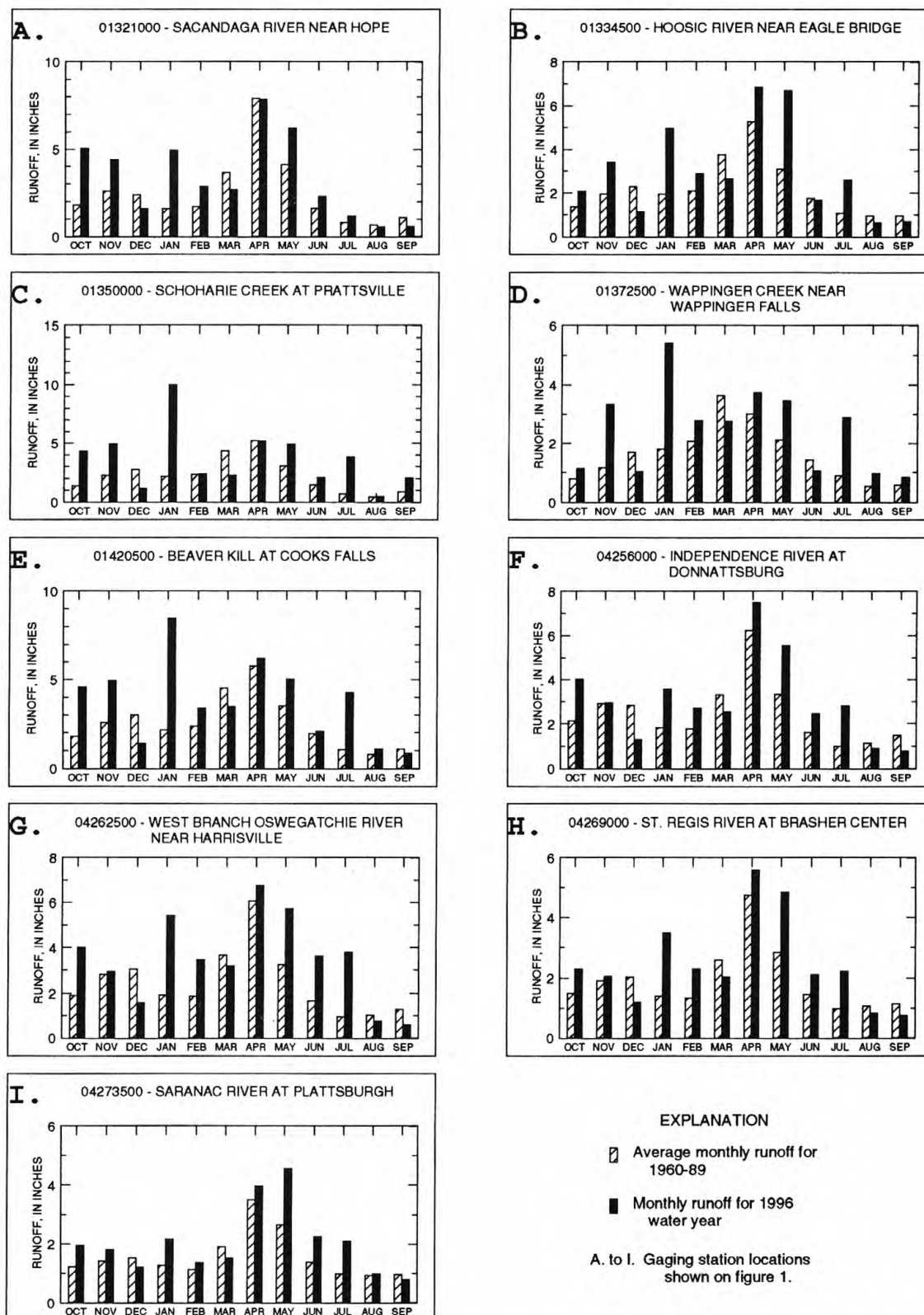


Figure 3.--Comparison of monthly runoff for 1996 water year and average monthly runoff for 1960-89 for selected gaging stations in eastern New York (site locations are shown on figure 1).

SUMMARY OF HYDROLOGIC CONDITIONS--Continued

A classic nor'easter, the "Blizzard of '96," brought heavy snows (more than 2 feet) to southeastern New York on January 7-8. Additional storms on January 10 and 12 left an additional 2 feet of snow, most of which fell over the Catskill Mountain region. Heavy rain (more than 4.5 inches in the Catskills) that fell January 18-19, combined with unseasonably warm temperatures and rapidly melting snow, caused widespread flooding throughout New York; the Catskill Mountain region was affected most severely. Damages exceeded \$100 million, and the storm and related flooding claimed 10 lives. The most destructive flooding occurred along Schoharie Creek and the East and West Branches of the Delaware River. New peak discharges of record occurred at 56 gaging stations, Statewide. Maximum discharges at 16 sites, most within the Schoharie Creek and Delaware River basins, had recurrence intervals greater than or equal to 100 years. Reservoirs stored large amounts of floodwater, and many sharply reduced peak discharges downstream from the reservoirs. The following table shows peak discharges for the January 19-20 flood at selected sites in the Catskill Mountain region and at gages on major rivers receiving the floodwaters (period of record is to current year).

Station number and name	Period of record	Previous maximum of record		Flood of January 19-20, 1996	
		Discharge (ft ³ /s)	Water year	Peak discharge (ft ³ /s)	Recurrence interval (years)
01350000-Schoharie Cr at Prattsville	1902-	51,600	1956	52,800	50
01351500-Schoharie Cr at Burtonsville	1939-	76,500	1956	81,600	100
01357500-Mohawk R at Cohoes	1917-	143,000	1964	132,000	100
01358000-Hudson R at Green Island	1946-	a215,000	1936	167,000	40
01361500-Catskill Cr at Oak Hill	1929-77,1987-	15,400	1987	13,400	50
01413500-E Br Delaware R at Margaretville	1937-	20,600	1950	25,800	>100
01415000-Tremper Kill nr Andes	1937-	4,250	1938	5,000	>100
01420500-Beaver Kill at Cooks Falls	1913-	31,600	1951	42,900	>100
01423000-W Br Delaware R at Walton	1950-	19,500	1986	25,000	70
01434000-Delaware R at Port Jervis	1904-	233,000	1955	134,000	b80

a Outside period of record (from U.S. Army Corps of Engineers).

b Based on current degree of regulation (1963-present).

Many gaging stations, particularly those in southeastern New York, recorded their maximum January flow in 1996. The above-normal flows and reservoir levels continued through the end of the month.

February was very cold at the beginning and unseasonably warm at the end, when a storm and snowmelt caused large increases in streamflow throughout eastern New York. Snowfall in southeastern New York was above normal, and New York City received more snow during the month than the "snowbelt" cities of Buffalo, Rochester, and Syracuse. Most precipitation in March was in the form of snow because temperatures were colder than normal. This resulted in slightly below-normal streamflows for the month throughout eastern New York.

Heavy rains in April made this New York's fourth wettest April in 102 years of record. The Hudson Valley received 6 to 8 inches more rain than normal during the month as a result of storms on April 15-16, 20, and 23. Streamflows returned to normal or slightly above normal during late April after these rains. Above normal streamflows continued throughout May as early to midmonth storms sustained the already high runoffs.

June ushered in summer with continued wet weather as several severe thunderstorms pounded eastern New York during the month. On June 9, more than 5 inches of rain fell in 2 to 3 hours in Rensselaer County and caused the closing of many roads and the evacuation of some homes. These storms kept streamflows slightly above normal south of the Mohawk River to much above normal in northern New York.

Cool and rainy conditions dominated July's weather. The temperature failed to reach 90°F in New York City during July for the first time since 1889. July 1996 was the seventh wettest July on record. The Hudson Valley received an average of 9.07 inches of rain (239 percent of normal). Many weather stations in southeastern New York recorded 10 to 13 inches of rain during July (as much as 8 inches above normal). One of the main contributors to the excess rainfall in eastern New York was the remnants of Hurricane Bertha during July 12-13 (more than 5 inches of rain in some areas). Several other thunderstorms during the month added to extreme rain totals and subsequent high stream runoffs. Streamflows throughout eastern New York remained much above normal during July. Several long-term gaging stations in southeastern New York recorded their highest July flows in more than 50 years. Reservoir contents rose to above normal levels by the end of July. Lake Champlain in northeastern New York was 2 feet above normal by the end of the month.

Eastern New York began to dry out during August, especially in northern areas. Northern New York averaged 50 percent of normal rainfall, making it the 11th driest August in 102 years. Generally, rainfall deficits ranged from 1 to 3 inches throughout eastern New York. The dry conditions returned most streams to normal levels except for isolated areas in southeastern New York, where some streamflows remained above normal.

Wet weather returned in September, with about 140 percent of normal rainfall (10th wettest September on record). The only area to remain slightly dry was northern New York, which received 87 percent of normal rainfall. Statewide, this year's January-through-September precipitation total was the greatest on record. Several severe storms, including the remnants of Hurricane Fran during September 7-9, caused parts of southeastern New York to receive rainfall 4 to 6 inches above normal. Streamflows varied across eastern New York during the month, ranging from below normal in northeastern areas to above-normal in parts of southeastern New York. The variability of streamflows during the month and throughout the year is illustrated by two representative sites in figures 4 and 5.

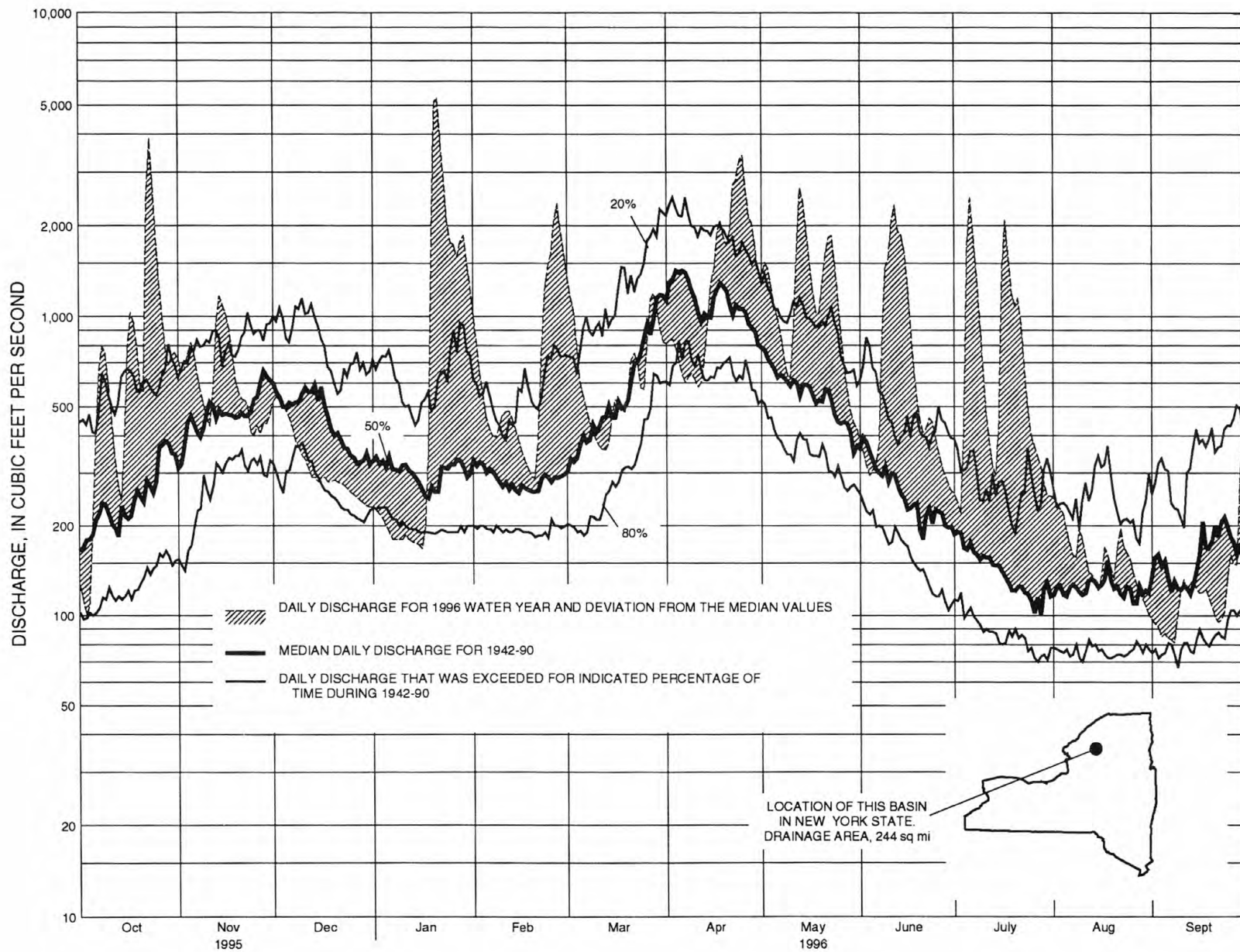


FIGURE 4.--HYDROGRAPHIC COMPARISONS, WEST BRANCH OSWEGATCHIE RIVER NEAR HARRISVILLE, N.Y.

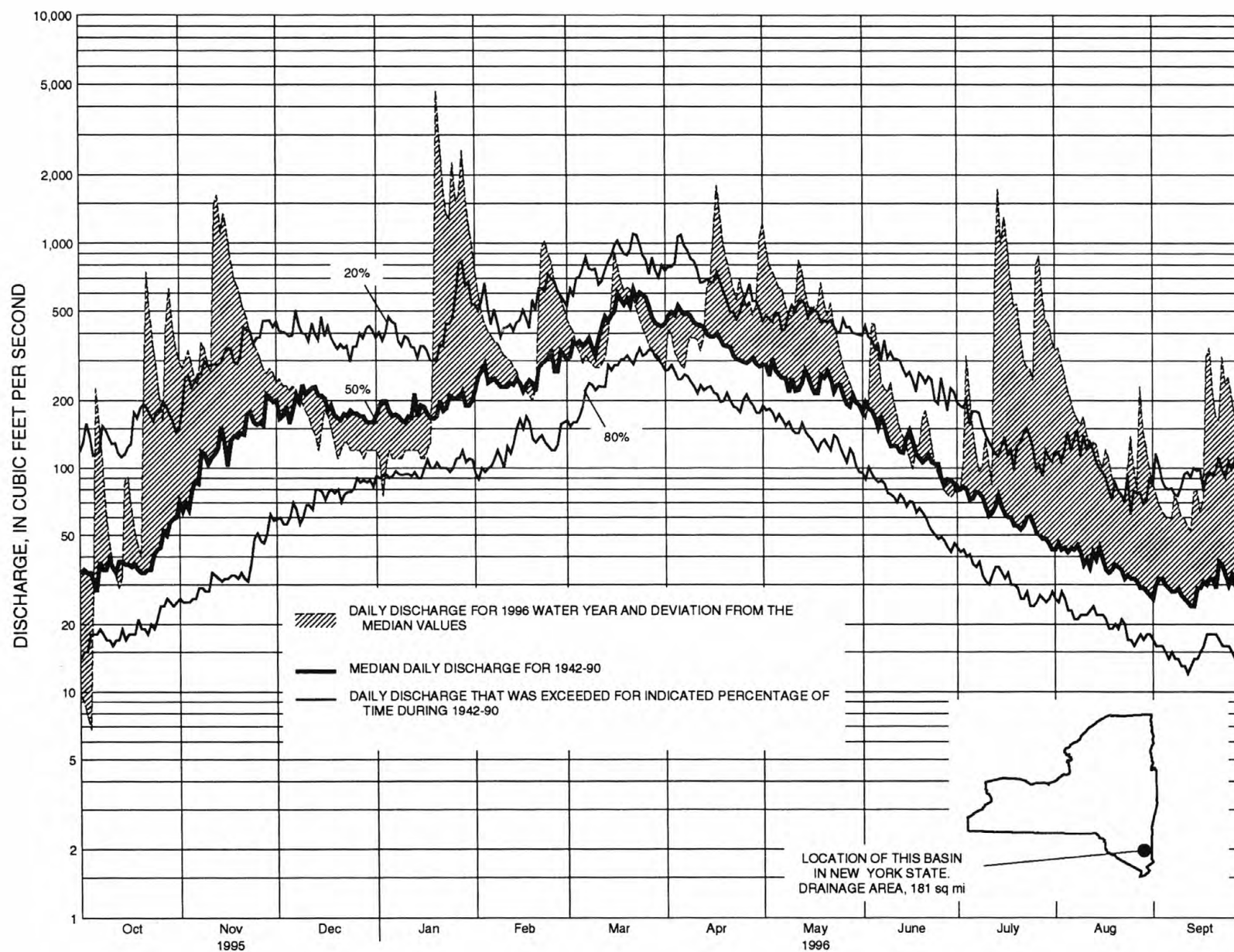


FIGURE 5.--HYDROGRAPHIC COMPARISONS, WAPPINGER CREEK NEAR WAPPINGERS FALLS, N.Y.

SUMMARY OF HYDROLOGIC CONDITIONS--Continued

As a final indication of the extremely high precipitation and runoff during the 1996 water year, the recorded total precipitation for October 1995 through September 1996 at Slide Mountain (in the Catskill Mountains) was nearly 90 inches (a record), about 30 inches more than normal. Some Catskill gaging stations recorded 60 to 70 inches of runoff during the water year in areas where about 40 inches is the norm.

Surface-Water Quality

Water-quality data from the Hydrologic Benchmark station and the NASQAN station in eastern upstate New York (locations shown in fig. 8) generally were within the historic extremes of the individual stations' period of record. A few other new extremes were measured during the year but represented only small changes.

Concentrations of two constituents at Biscuit Brook above Pigeon Brook at Frost Valley (01434025) exceeded their previous maximum values for that site on October 24, and concentrations of three constituents at the St. Lawrence River site at Cornwall, Ontario, near Massena, NY (04264331) were below the historic minimums for that site. On October 24 at Biscuit Brook, the concentration of dissolved carbonate (1 mg/L) exceeded the previous maximum of <0.01 mg/L, and the concentration of dissolved nickel (2 µg/L) exceeded the previous maximum of 1 µg/L.

At the St. Lawrence site, the alkalinity was below the historic minimum of 80 mg/L on seven dates; the lowest value (62 mg/l as CaCO₃) was measured on June 18. A new lower analytical detection limit for dissolved orthophosphate reported as phosphorous resulted in a new minimum concentration of less than 0.001 mg/L measured on May 9, June 18, and August 13. A new lower analytical detection limit for dissolved aluminum resulted in a new minimum concentration of 1 µg/L measured on January 18.

Water-quality data from 6 periodic-measurement sites (locations shown on fig. 8) and miscellaneous-measurement sites collected for the Hudson River NAWQA project in eastern upstate New York are presented in this report. Also presented are PCB and daily-sediment loads at 3 sites on the upper Hudson River, daily temperature and specific conductance values at 3 sites on the lower Hudson River, and daily temperature data from 20 additional sites in eastern upstate New York. Water-quality data are periodically collected at additional sites and are generally published in project reports.

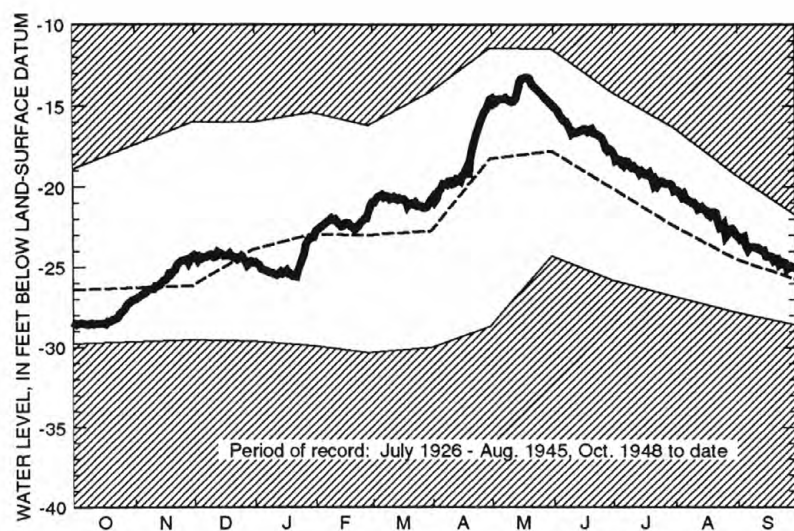
Ground Water

Ground-water levels in shallow, unconfined aquifers in eastern New York typically show a seasonal pattern of change during the water year. Water levels rise in response to aquifer recharge from precipitation. Recharge to aquifers varies locally throughout the year and is affected by many factors, including the timing and amount of precipitation, the rate of evapotranspiration, soil-moisture content, and amount of local runoff. Evapotranspiration includes physical evaporation, transpiration by vegetation, and ground-water evapotranspiration. Recharge is typically greatest during the late fall and early to mid-spring, when transpiration of water by plants is minimal, and the ground is not frozen. Water levels rise during the spring usually exceeding those that occur in the fall, primarily due to additional recharge from melting snowpack. Water levels decline during the late spring and summer, when plant growth and water temperatures increase the rate of evapotranspiration and thus reduce the rate of recharge. Storms, if of sufficient intensity and duration, can provide minor recharge to shallow aquifers during summer. Precipitation in New York is (on the average) fairly evenly distributed by month, thus the annual summer decline in ground-water levels is due primarily to a reduction in recharge from increased evapotranspiration.

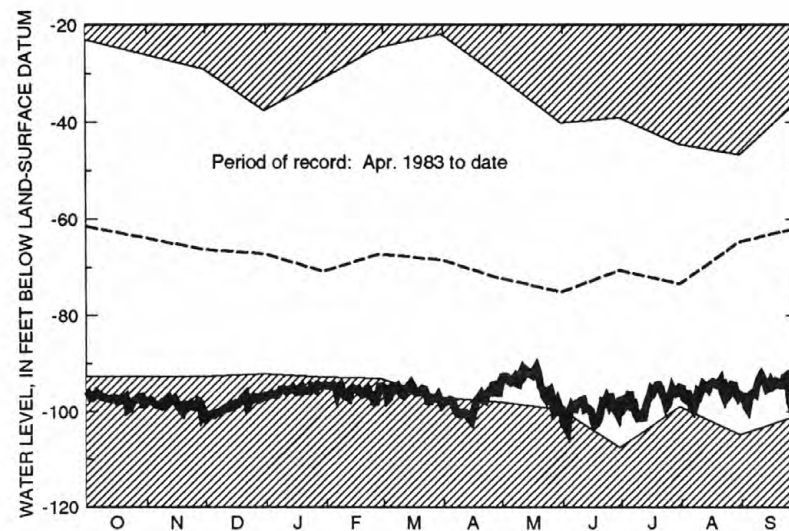
Confined aquifers are typically less responsive to individual recharge events than unconfined aquifers. Water levels in confined aquifers typically show subdued and delayed water-level response to individual recharge events because their hydraulic connection to the overlying unconfined aquifers is indirect. Atmospheric pressure changes can cause transient, but significant, water-level changes in wells tapping confined aquifers.

The hydrographs in figure 6 show the minimum, maximum, and median long-term monthly water levels and the water levels at three observation wells during the 1996 water year. The hydrograph for well Oe-151 in Oneida County (northern New York) illustrates typical seasonal water-level fluctuations under natural (nonpumping) conditions in a shallow, unconfined sand aquifer. The hydrograph for well Du-321 in Dutchess County (southern New York) illustrates the water-level fluctuations under natural conditions in a confined shale aquifer. The hydrograph for well Sa-1100 in Saratoga County (east-central New York) illustrates pumpage-affected water-level fluctuations in a confined sand and gravel aquifer.

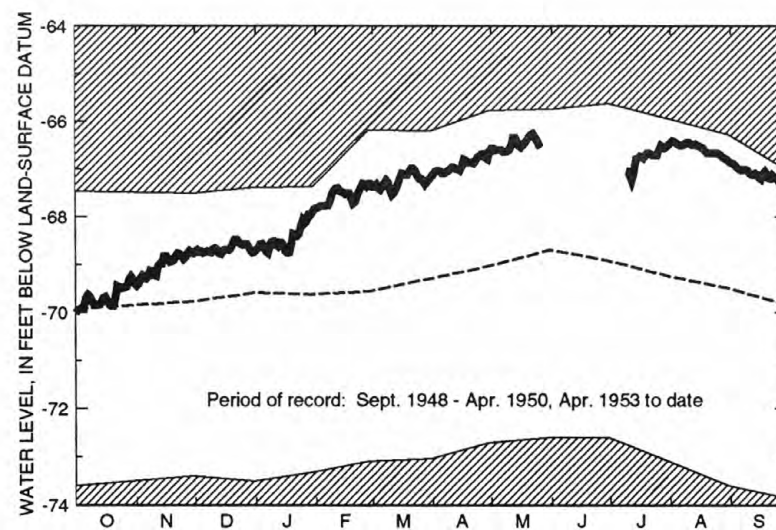
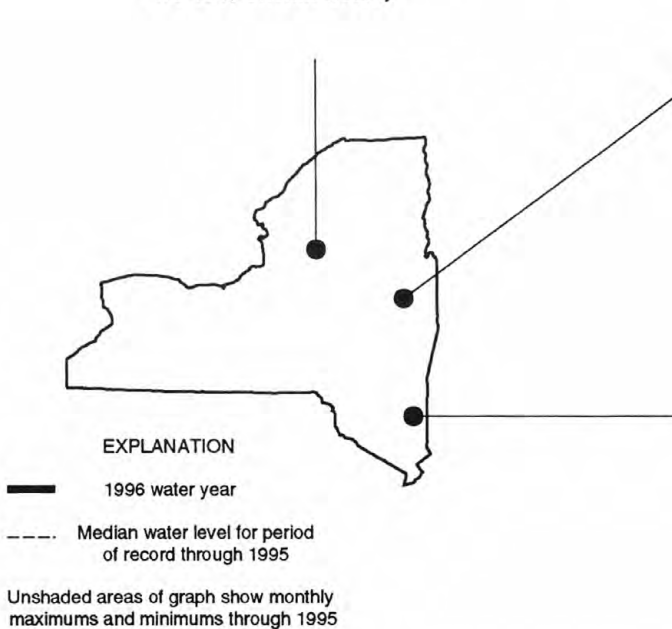
Water levels at well Oe-151 remained at or near median height during the first half of the year and remained above the median thereafter. Water levels under confined conditions at well Du-321 rose above the median height at the start of the water year and were at near-maximum levels by mid year and remained so for the remainder of the year. Water levels remained at or near record minimums at well Sa-1100 throughout 1996. Water-level fluctuations at this well are affected by pumping of a nearby production well; and the natural fluctuations are not discernible because the pumping-induced fluctuations are large. Increases in nearby pumping over the last several years have led to the decline of water levels to record or near-record minimums at this well.



Oe-151, Oneida County



Sa-1100, Saratoga County



Du-321, Dutchess County

Figure 6.--Hydrographic comparisons, ground-water levels at selected observation wells.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within four of the Nation's largest river basins--the Mississippi, Columbia, Colorado, and Rio Grande. The network consists of 39 stations. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN 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.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical climate of precipitation throughout the United States. As the lead federal agency, the USGS works together with over 100 organizations to accomplish the following objectives; (1) provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 191 precipitation chemistry monitoring sites; (2) provide the mechanism to evaluate the effectiveness of the significant reduction in SO₂ emissions that began in 1995 as implementation of the Clean Air Act Amendments (CAAA) occurred; (3) provide the scientific basis and nationwide evaluation mechanism for implementation of the Phase II CAAA emission reductions for SO₂ and NO_x scheduled to begin in 2000. Data from the network, as well as information about individual sites, are available through the world wide web at:

<http://nadp.nrel.colostate.edu/NADP>

National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 53 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key federal, State, and local water resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products and opportunities to collaborate efforts among the agencies.

Additional information about the NAWQA Program is available through the world wide web at:

http://wwwrvares.er.usgs.gov/nawqa/nawqa_home.html

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

EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 1995 water year that began October 1, 1994, and ended September 30, 1995. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, water-quality data, and ground-water level data. The locations of the stations and wells where the data were collected are shown in figure 8. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station, whether streamsite or 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 usually is 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 "down-stream order" system is used for regular 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 in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary with respect to the stream to which it is immediately tributary is indicated by an indentation in the "List of Stations" in the front of this 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 01300500, includes the 2-digit part number "01" plus the 6-digit downstream-order number "300500". The Part number designates the major 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 for identification.

Latitude-Longitude System

The identification numbers for wells are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells within a 1-second grid. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description. (See figure 7 below.)

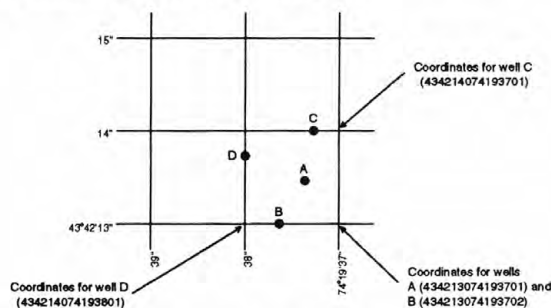


Figure 7. System for numbering wells (latitude and longitude)

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."

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 gaging stations and observation wells in this report are shown in figure 8.

Data Collection and Computation

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigations, Book 3, Chapter A6.

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow-over-dams or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by hydrographers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method. For some stations, formation of ice in the winter may so obscure the stage-discharge relations that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

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.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed. If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic re-surveys 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. Discharges over lake or reservoir spillways are computed from stage-discharge relationships much as other stream discharges are computed.

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 the recorded range in stage, prior and subsequent record, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise, daily contents may be estimated from operator's log, prior and subsequent 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. This change represents 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 and daily 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; extremes; 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 gaging station 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, were 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.--This indicates 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.--Because of new information, published records 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 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 paragraph is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, and to conditions that affect natural flow at the station. In addition, information may be presented pertaining to average discharge data for the period of record; to extremes data for the period of record and the current year; 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 U.S. Geological Survey by a cooperating organization are identified here.

AVERAGE DISCHARGE.--The discharge value given is the arithmetic mean of the water-year mean discharges. Only water years of complete record are included in the computation. It is not computed for stations where diversions, storage, or other water-use practices cause the value to be meaningless.

EXTREMES FOR PERIOD OF RECORD.--Extremes may include maximum and minimum stages and maximum and minimum discharges or content. Unless otherwise qualified, the maximum discharge or content is the instantaneous maximum corresponding to the highest stage that occurred. The highest stage may have been obtained from a graphic or digital recorder, a crest-stage gage, or by direct observation of a nonrecording gage. If the maximum stage did not occur on the same day as the maximum discharge or content, it is given separately. Similarly, the minimum is the instantaneous minimum discharge, unless otherwise qualified, and was determined and is reported in the same manner as the maximum.

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.

EXTREMES FOR CURRENT YEAR.--Extremes given here are similar to those for the period of record, except the peak discharge listing may include secondary peaks. 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. The peaks greater than the base discharge, excluding the highest one, are referred to as secondary peaks. 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 occurrence for peaks is expressed in 24-hour local standard time. For example, 12:30 a.m. is 0030, and 1:30 p.m. is 1330. The minimum for the current water year appears below the table of peak data.

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 (address given on the back of the title page of this report) to determine if the published records were ever revised after the station was discontinued. Of course, if the data for a discontinued station were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of 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 contents are given.

Data table of daily mean values

The daily table for stream-gaging stations gives the 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 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") of 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 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.

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 and daily flows, not only for the current water year but also for the previous calendar year and for a 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 the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the manuscript or in 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 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 manuscript 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 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 statistic.)

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.

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

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

The degree of accuracy of the records is indicated under "REMARKS." "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good," within 10 percent; and "fair," within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy. Different accuracies may be attributed to different parts of a given record.

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

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

Historical and current 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.

A careful distinction needs to be made between "continuing records" as used in this report and "continuous recordings," which refers to a continuous graph or a series of discrete values recorded at short intervals. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, 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, unless otherwise footnoted under "REMARKS". Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with 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. The table of ground-water quality data follow the ground-water level records. Data for quality of ground water are listed alphabetically by County, and are identified by well number. Data collected at miscellaneous sites and ground-water quality for the NAWQA program appear last.

On-site Measurements and Sample Collection

In obtaining water-quality data, a major concern needs to be assuring 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 given in publications on "Techniques of Water-Resources Investigations," Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4. 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 definitions) 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.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon measurements recorded hourly or more frequently. More detailed records (hourly values) may be obtained from the District office.

Water Temperature

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

At stations where recording instruments are used, either mean temperatures and/or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the District office.

Sediment

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

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

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

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

Laboratory Measurements

Samples for indicator bacteria and daily samples for specific conductance are analyzed locally. Sediment samples are analyzed in the Geological Survey laboratory in Louisville, KY. All other samples are analyzed in the Geological Survey laboratory in Arvada, Colo. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chap. C1. Methods used by the Geological Survey laboratories are given in TWRI, Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information, as appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

DRAINAGE AREA.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

PERIOD OF RECORD.--This indicates the periods 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 record, 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 maximums or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates 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.

The surface-water-quality records for miscellaneous sampling sites are published in a separate table following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

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"). Thus, "CHEMICAL DATA: 1972-74(c), 1977-81(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 year, 1977-81.

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 often 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. | |

Remarks Codes

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

<u>Printed Output</u>	<u>Remark</u>
E	Estimated value.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
K	Results based on colony count outside the acceptance range (non-ideal colony count).

Dissolved Trace-Element Concentrations

NOTE.--Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter (ug/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 to 100's of nanograms per liter (ng/L). Data above the ug/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.

Change in National Trends Network Procedures

NOTE.--Sample handling procedures at all National Trends Network stations were changed substantially on January 11, 1994, in order to reduce contamination from the sample shipping container. The data for samples before and after that date are different and not directly comparable. A tabular summary of the differences based on a special intercomparison study, is available from the NADP/NTN Coordination Office, Colorado State University, Fort Collins, CO 80523 (Telephone: 303-491-5643).

Records of Ground-Water Levels

Ground-water level data consist of water-level measurements made in observation wells. Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs. (See figure 7.)

Data Collection and Computation

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

Water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well; National Geodetic Vertical Datum of 1929 is the datum plane on which the national network of precise levels is based. If known, the elevation of the land-surface datum above National Geodetic Vertical Datum of 1929 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, and the extremes are instantaneous values selected from the digital record. Water levels in wells not equipped with recording gages are read periodically or measured periodically with a weighted tape by U.S. Geological Survey personnel and/or an observer.

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 water year, and the 10-year hydrograph. 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.

LOCATION.--This paragraph follows the well-identification number and reports the latitude and longitude (given in degrees, minutes, and seconds); a landline location designation; the hydrologic unit number; the distance and direction from a geographic point of reference; and the owner's name.

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

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

INSTRUMENTATION.--This paragraph provides information on both the frequency of measurement 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.--This entry 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.--This entry 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.--This entry indicates the period for which there are published records for the well. It 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.

EXTREMES FOR PERIOD OF RECORD.--This entry contains the highest and lowest water levels of the period of 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 below land-surface datum and all taped measurements of water level are listed for wells without recorders. The highest and lowest water levels of the water year and their dates of occurrence are shown on a line below the table for wells with recorders. Because all values are not published for wells with recorders, the extremes may be values that are not listed in the table. Missing records are indicated by dashes in place of the water level.

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 below land-surface datum. If the period of record is less than 10 years, the water levels for the entire record are plotted.

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 in 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 Techniques of Water-Resources Investigations" manuals listed on a following page. 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. 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 REMARK codes listed for 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 temperatures, 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 characteristics of both surface and ground water (biological, chemical, physical, and radio-chemical).

- * 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 5-1/4 inch floppy disk. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division's District offices. (See address on the back of the title page.)

DEFINITION OF TERMS

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

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

Algae are mostly aquatic single-celled, colonial, or multicelled 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 thread-like 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.

Escherichia coli (E. coli) are bacteria present in the intestine and feces of warm-blooded animals. E. coli are a member species of the fecal coliform group of indicator bacteria. In the laboratory they are defined as those bacteria that produce yellow or yellow-brown colonies on a filter pad saturated with urea substrate broth after primary culturing for 22 to 24 hours at 44.5°C on mTEC medium. 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 brainheart 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/m³), and periphyton and benthic organisms in grams per square meter (g/m²).

Dry mass refers to the mass of residue present after drying in an oven at 105°C for zooplankton and 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, or about 646,000 gallons.

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.

Confined aquifer is a term used to describe an aquifer containing water between two relatively impermeable boundaries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table (it can also be above ground level). Formerly called artesian aquifer.

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

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

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

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

Cubic foot per second (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.

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 statistic.)

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.

Dissolved-solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the change.

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.

Dry weight refers to the weight of animal tissue after it has been dried in an oven at 65°C until a constant weight is achieved. Dry weight represents total organic and inorganic matter in the tissue.

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).

High tide is the maximum tidal peak reached each day.

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.

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Lipid is any one of a family of compounds that are insoluble in water and that make up one of the principle components of living cells. Lipids include fats, oils, waxes, and steroids. Many environmental contaminants such as organochlorine pesticides are lipophilic.

Low tide is the minimum tidal trough reached each day.

Mean high or low tide is the average of all high or low tides, respectively, over a specific period.

Measuring point (MP) is an arbitrary permanent reference point from which the distance to the water surface in a well is measured to obtain the water level.

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 (UG/G, $\mu\text{g/g}$) is a unit expressing the concentration of a chemical constituent as the mass of the constituent (micrograms) per unit mass (gram) of medium (e.g. sediment, biological tissue). One microgram per gram is equivalent to one part per million.

Micrograms per kilogram (UG/KG) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass (kilogram) of medium. One microgram per kilogram is equivalent to one part per billion.

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

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

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.

Organic carbon (OC) is a measure of organic matter present in aqueous solution, suspension, or bottom sediments. May be reported as dissolved organic carbon (DOC), suspended organic carbon (SOC), total organic carbon (TOC).

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.

Organochlorine compounds are any chemicals that contain carbon and chlorine. Organochlorine compounds that are important in investigations of water, sediment, and biological quality include certain pesticides and industrial compounds.

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 recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

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

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

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

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

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

Picocurie (PCI, 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.

Aroclor is the registered trade mark for a group of polychlorinated biphenyls which were manufactured by the Monsanto Company prior to 1976. Aroclors are assigned specific four-digit reference numbers dependent upon molecular type and degree of substitution of the biphenyl ring hydrogen atoms by chlorine atoms. The first two digits of a numbered aroclor represent the molecular type and the last two digits represent the weight percent of the hydrogen substituted chlorine.

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 [mg C/(m².time)] for periphyton and macrophytes and [mg C/(m³.time)] for phytoplankton are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon 14). The carbon 14 method is of greater sensitivity than the oxygen light and dark bottle method, and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [mg O₂/(m².time)] for periphyton and macrophytes and [mg O₂/(m³.time)] for phytoplankton are 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.

Replicate samples are a group of samples collected in a manner such that the samples are thought to be essentially identical in composition.

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 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 and 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 bed-load discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

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

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

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 ($\mu\text{S}/\text{cm}$) 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. 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, as a rock or tree, upon which an organism lived.

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

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

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

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

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

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

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

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

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

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

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

Total length is the straight-line distance from the anterior point of a fish specimen's snout, with the mouth closed, to the posterior end of the caudal (tail) fin, with the lobes of the caudal fin squeezed together.

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 table is the surface of a ground-water body at which the water is at atmospheric pressure. It is defined by the levels at which water stands in wells that penetrate the water body just far enough to hold standing water.

Water-table aquifer is an unconfined aquifer whose upper boundary is the water table.

Water year in 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 which includes 9 of the 12 months. Thus, the year ending September 30, 1980, is called the "1980 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. (WRD was used as an abbreviation for "Water Resources Data" in reports published prior to 1976.)

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.

Wet weight refers to the weight of a substance including its contained water.

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

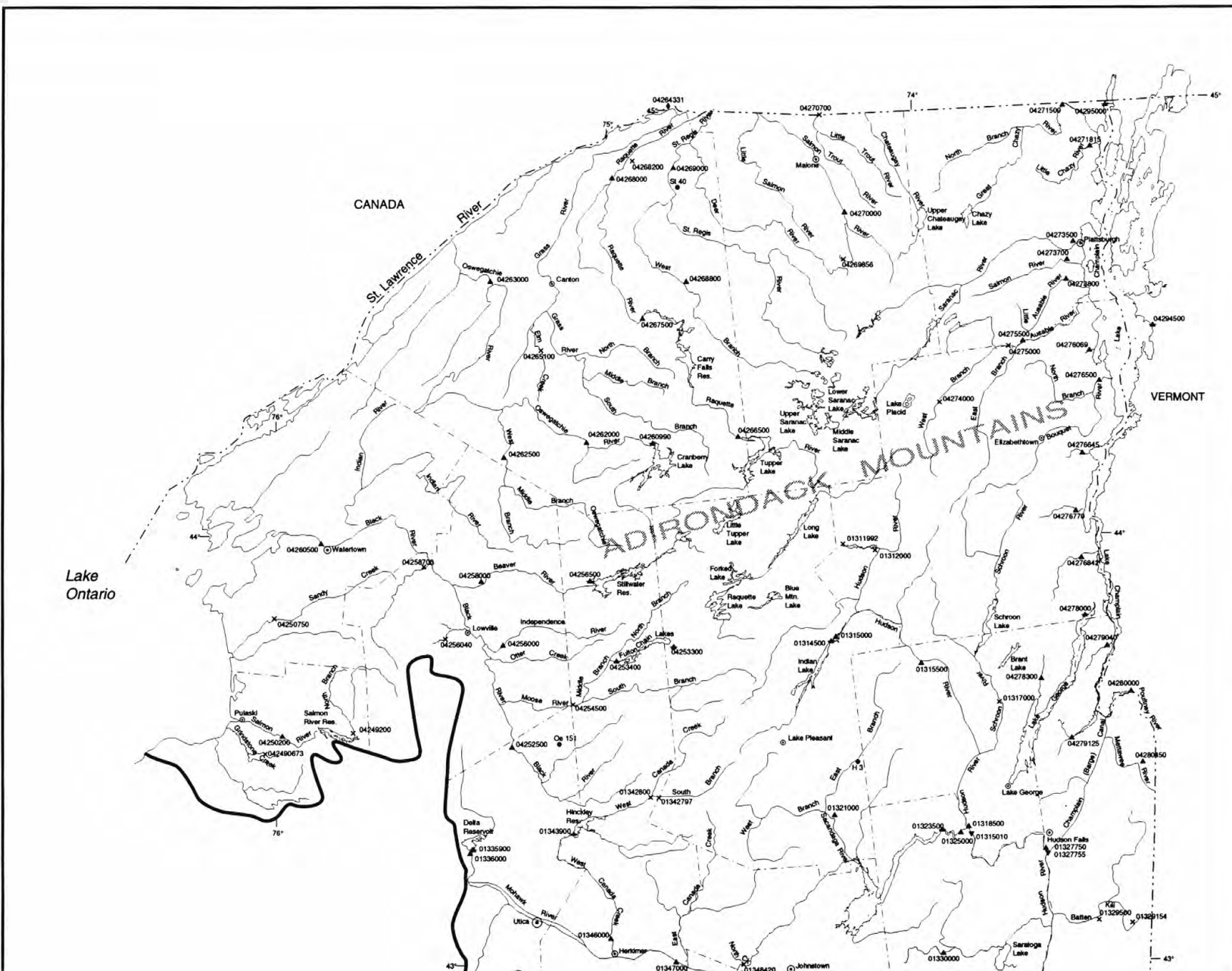
The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of 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, 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

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WATER RESOURCES DATA FOR NEW YORK, 1997

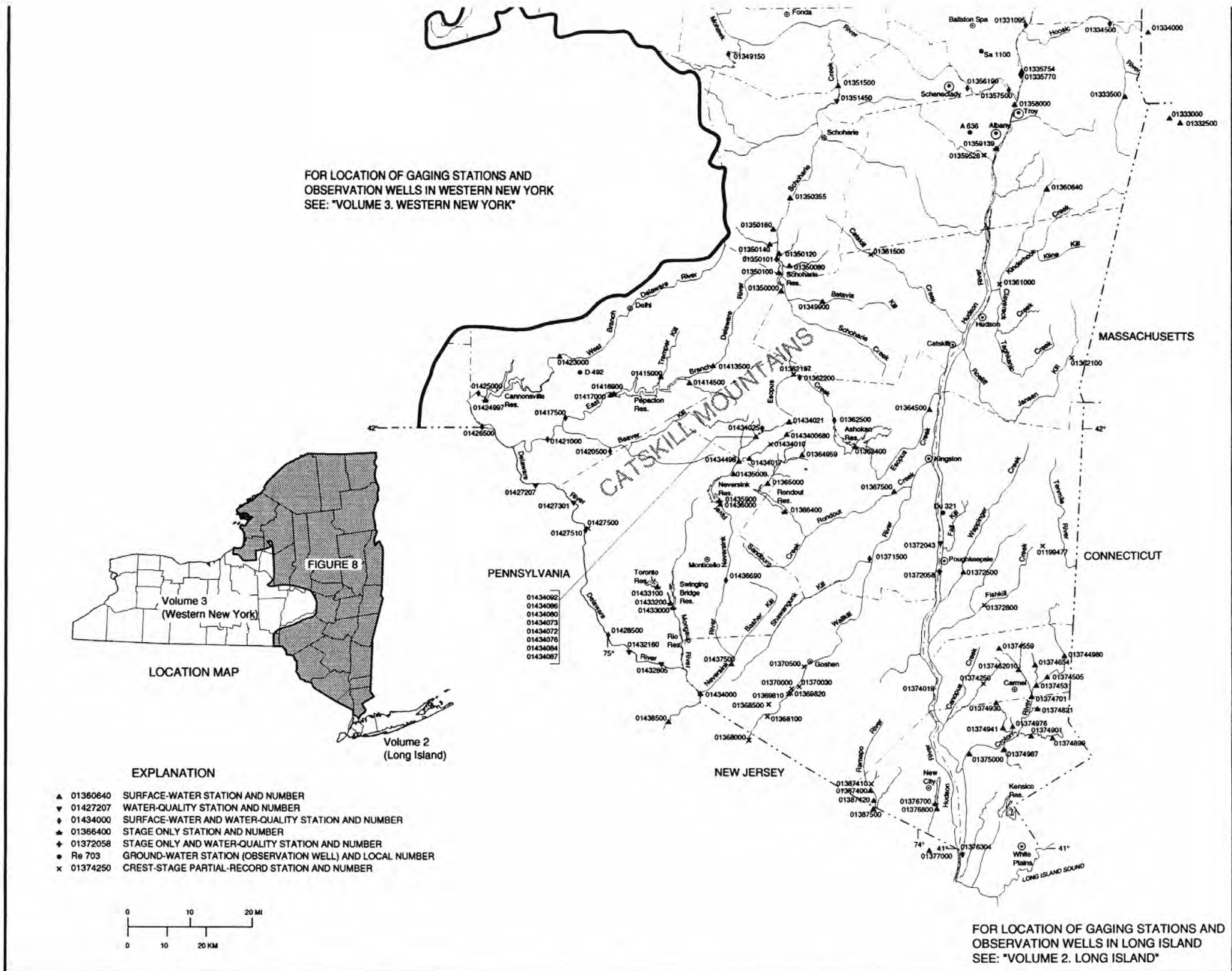


FIGURE 8.-- LOCATION OF GAGING STATIONS AND OBSERVATION WELLS

HUDSON RIVER BASIN

01314500 INDIAN LAKE NEAR INDIAN LAKE, NY

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

DRAINAGE AREA.--131 mi².

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

REVISED RECORDS.--WDR NY-94-1: 1993 (change in contents).

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

REMARKS.--Reservoir is formed by masonry dam, completed in 1898. Usable capacity, about 4.668 bil ft³ at elevation, 1,651.29 ft (crest of spillway). Sills of double sluice gates at lowest outlet at elevation 1,615.50 ft. Dead storage unknown. Water is used for power development, for improvement of navigation in lower Hudson River, and to compensate for flow diverted from Hudson River at Glens Falls into Champlain (Barge) Canal.

COOPERATION.--Gage-height record provided by Hudson River-Black River Regulating District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 1,656.71 ft, Mar. 28, 1913, contents, 5.781 bil ft³; minimum observed, 1,616.8 ft, estimated, Feb. 13, 1948, contents, 0.20 bil ft³.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 1,652.88 ft, May 13, contents, 4.984 bil ft³; minimum observed, 1,639.81 ft, Feb. 21, contents, 2.703 bil ft³.

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

1,635.0	1.958	1,648.0	4.068
1,636.0	2.110	1,653.0	5.007
1,638.0	2.417	1,655.0	5.419
1,643.0	3.221	1,657.0	5.844

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY OBSERVATION AT 08:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1642.07	1649.03	1649.80	1643.85	1643.18	1641.58	1642.06	1651.98	1650.71	1649.72	1648.53	1646.12
2	1641.93	1649.22	1649.71	1643.65	1643.13	1641.62	1642.28	1652.25	1650.54	1649.68	1648.48	1645.93
3	1641.81	1649.38	1649.59	1643.43	1642.93	1641.58	1642.46	1652.25	1650.42	1649.64	1648.43	1645.85
4	1641.79	1649.68	1649.37	1643.22	1642.77	1641.53	1642.58	1652.20	1650.31	1649.63	1648.41	1645.75
5	1641.78	1649.83	1649.13	1643.04	1642.63	1641.53	1642.72	1652.16	1650.32	1649.62	1648.34	1645.75
6	1641.87	1650.03	1648.92	1642.84	1642.56	1641.51	1642.78	1652.12	1650.30	1649.61	1648.28	1645.64
7	1642.13	1650.09	1648.78	1642.63	1642.31	1641.44	1642.88	1652.04	1650.28	1649.53	1648.23	1645.55
8	1642.18	1650.08	1648.59	1642.42	1642.13	1641.42	1642.98	1651.94	1650.37	1649.49	1648.18	1645.45
9	1642.28	1650.13	1648.41	1642.21	1641.96	1641.38	1643.03	1651.82	1650.49	1649.47	1648.08	1645.40
10	1642.27	1650.23	1648.23	1642.02	1641.75	1641.36	1643.08	1651.68	1651.46	1649.37	1647.98	1645.35
11	1642.27	1650.23	1648.05	1641.83	1641.58	1641.32	1643.18	1651.88	1651.93	1649.28	1647.90	1645.26
12	1642.23	1650.23	1647.83	1641.64	1641.37	1641.28	1643.28	1652.43	1652.07	1649.17	1647.81	1645.16
13	1642.17	1650.23	1647.67	1641.33	1641.18	1641.17	1643.44	1652.88	1652.00	1649.07	1647.73	1645.06
14	1642.12	1651.53	1647.40	1641.20	1641.03	1641.08	1643.80	1652.83	1651.93	1649.04	1647.60	1645.00
15	1642.63	1651.68	1647.23	1640.98	1640.83	1641.08	1644.16	1652.64	1651.82	1649.01	1647.52	1644.91
16	1643.08	1651.83	1647.11	1640.79	1640.63	1641.13	1644.78	1652.46	1651.73	1649.03	1647.48	1644.86
17	1643.58	1651.96	1647.00	1640.58	1640.45	1641.22	1646.23	1652.29	1651.57	1649.09	1647.41	1644.66
18	1643.98	1651.73	1646.71	1640.43	1640.26	1641.18	1647.08	1652.11	1651.42	1649.10	1647.30	1644.56
19	1644.03	1651.63	1646.53	1640.33	1640.07	1641.13	1647.53	1652.18	1651.32	1649.06	1647.23	1644.52
20	1644.09	1651.58	1646.32	1641.24	1639.86	1641.20	1647.88	1652.18	1651.22	1649.13	1647.13	1644.46
21	1644.13	1651.46	1646.16	1641.98	1639.81	1641.31	1648.53	1652.14	1650.98	1649.03	1647.08	1644.42
22	1646.14	1651.32	1645.98	1642.28	1639.83	1641.38	1649.32	1652.03	1650.80	1649.03	1646.96	1644.36
23	1647.38	1651.17	1645.73	1642.48	1640.02	1641.43	1650.03	1651.93	1650.60	1648.98	1646.86	1644.36
24	1647.83	1650.97	1645.55	1642.78	1640.33	1641.48	1651.04	1651.73	1650.41	1648.93	1646.81	1644.40
25	1648.13	1650.82	1645.33	1642.48	1640.73	1641.44	1651.68	1651.61	1650.23	1648.88	1646.70	1644.41
26	1648.18	1650.58	1645.16	1642.53	1641.12	1641.52	1651.88	1651.48	1650.13	1648.83	1646.60	1644.37
27	1648.26	1650.43	1644.91	1642.68	1641.38	1641.57	1651.94	1651.33	1650.00	1648.82	1646.51	1644.34
28	1648.46	1650.24	1644.75	1642.98	1641.52	1641.68	1651.88	1651.18	1649.93	1648.73	1646.50	1644.29
29	1648.78	1650.08	1644.52	1643.22	1641.56	1641.83	1651.84	1651.02	1649.87	1648.67	1646.41	1644.47
30	1648.88	1649.96	1644.32	1643.24	---	1641.91	1651.84	1650.91	1649.83	1648.58	1646.32	1644.42
31	1648.98	---	1644.07	1643.23	---	1641.98	---	1650.80	---	1648.53	1646.22	---
MEAN	1644.37	1650.58	1647.06	1642.24	1641.34	1641.43	1646.27	1651.95	1650.83	1649.15	1647.45	1644.97
MAX	1648.98	1651.96	1649.80	1643.85	1643.18	1641.98	1651.94	1652.88	1652.07	1649.72	1648.53	1646.12
MIN	1641.78	1649.03	1644.07	1640.33	1639.81	1641.08	1642.06	1650.80	1649.83	1648.53	1646.22	1644.29
+	4.250	4.397	3.380	3.259	2.991	3.066	4.800	4.567	4.381	4.166	3.751	3.430
++	+438	+56.7	-380	-45.2	-107	+28.0	+669	-87.0	-71.8	-80.3	-155	-124
CAL YR 1995	MEAN 1643.71	MAX 1651.96	MIN 1636.66	++ - 2.22								
WTR YR 1996	MEAN 1646.48	MAX 1652.88	MIN 1639.81	++ +11.1								

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

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

01315000 INDIAN RIVER NEAR INDIAN LAKE, NY

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

DRAINAGE AREA.--132 mi².

PERIOD OF RECORD.--July 1912 to June 1914, June 1915 to September 1915 (monthly discharges only, published in WSP 1302), October 1915 to current year.

REVISED RECORDS.--WDR NY-94-1: 1993.

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

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Indian Lake (see station 01314500).

AVERAGE DISCHARGE.--82 years (water years 1913, 1916-96), 297 /s, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,460 ft³/s, Mar. 28, 1913, gage height, 7.8 ft; minimum, has been less than 1.0 ft³/s, when entire flow of river is stored in Indian Lake.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,330 ft³/s, May 13, gage height, 4.64 ft; minimum, 94 ft³/s, Apr. 11, 12, 13, gage height, 1.36 ft; minimum daily, 95 ft³/s, Apr. 12.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	199	204	586	526	515	273	190	842	443	233	233	220
2	199	205	581	526	512	273	190	903	442	233	233	220
3	199	205	580	523	511	273	190	891	438	233	233	220
4	200	203	578	520	509	273	192	873	353	237	233	220
5	199	202	576	513	507	273	192	861	229	234	233	220
6	203	202	576	508	505	273	192	839	227	233	233	218
7	201	201	576	504	503	273	193	802	230	233	233	217
8	201	199	575	502	503	273	194	747	232	233	231	219
9	201	199	573	502	502	271	194	699	241	232	230	218
10	200	199	572	503	500	270	194	672	286	232	230	217
11	199	200	572	501	500	270	148	748	482	231	230	217
12	199	217	572	498	500	270	95	1040	622	230	230	217
13	199	211	570	496	498	232	96	1290	604	232	228	217
14	206	270	569	495	496	185	101	1250	576	232	227	217
15	206	352	566	493	496	185	100	1120	542	232	228	217
16	204	390	561	491	494	184	118	1000	506	233	228	215
17	204	473	561	489	492	183	105	907	478	232	227	214
18	204	563	561	487	489	183	104	837	458	233	227	182
19	204	534	559	502	482	185	105	877	451	234	226	141
20	204	511	557	504	477	184	105	863	520	233	225	141
21	232	560	557	505	472	185	111	826	583	233	226	141
22	224	610	557	507	473	185	291	787	582	233	225	142
23	220	604	555	507	393	185	454	733	579	233	225	142
24	218	594	553	511	270	185	480	680	579	233	225	141
25	214	590	553	510	270	186	682	632	481	234	224	141
26	214	587	549	507	270	188	809	598	334	234	223	141
27	212	584	547	518	270	187	839	578	333	233	222	141
28	217	585	535	518	273	187	764	528	264	233	222	142
29	213	586	530	516	273	188	628	450	233	233	222	142
30	212	586	530	517	---	189	749	445	233	233	222	141
31	212	---	527	516	---	189	---	444	---	234	221	---
TOTAL	6419	11626	17414	15715	12955	6840	8805	24762	12561	7221	7055	5581
MEAN	207	388	562	507	447	221	293	799	419	233	228	186
MAX	232	610	586	526	515	273	839	1290	622	237	233	220
MIN	199	199	527	487	270	183	95	444	227	230	221	141

ADJUSTED FOR CHANGE IN CONTENTS OF INDIAN LAKE

MEAN	645	445	182	462	340	249	962	712	347	153	73.1	62.2
CFSM	4.88	3.37	1.38	3.50	2.58	1.89	7.29	5.39	2.63	1.16	0.55	0.47
IN	5.63	3.76	1.59	4.03	2.78	2.17	8.13	6.22	2.93	1.33	0.64	0.53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1996, BY WATER YEAR (WY)

MEAN	271	221	260	364	415	279	181	308	257	275	363	353
MAX	808	649	777	944	980	745	774	799	907	644	700	862
(WY)	1978	1977	1973	1933	1932	1913	1913	1996	1947	1939	1930	1935
MIN	2.31	1.20	.74	3.13	36.7	5.69	2.51	2.42	3.30	4.43	47.7	24.9
(WY)	1919	1914	1931	1924	1945	1925	1927	1958	1958	1931	1975	1965

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1912 - 1996

ANNUAL TOTAL	88871	136954	
ANNUAL MEAN	243	374	296
ANNUAL MEAN (ADJUSTED)	241	385	
HIGHEST ANNUAL MEAN			457
LOWEST ANNUAL MEAN			106
HIGHEST DAILY MEAN	610	Nov 22	1290
LOWEST DAILY MEAN	18	Jul 8	95
ANNUAL SEVEN-DAY MINIMUM	18	Jul 8	103
ANNUAL RUNOFF (CFSM, ADJUSTED)	1.82		2.92
ANNUAL RUNOFF (INCHES, ADJUSTED)	24.76		39.70
10 PERCENT EXCEEDS	551		595
50 PERCENT EXCEEDS	202		252
90 PERCENT EXCEEDS	21		187
			637
			256
			8.0
			3460
			.50
			.50
			Mar 28
			Sep 23
			Oct 20
			1913
			1913
			1913

HUDSON RIVER BASIN

01315500 HUDSON RIVER AT NORTH CREEK, NY

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

DRAINAGE AREA.--792 mi².

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

REVISED RECORDS.--WSP 621: Drainage area. WSP 1432: 1908-18, 1920, 1922. WDR NY-78-1: 1977.

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

REMARKS.--Records good except those for estimated daily discharges, which are poor. Appreciable regulation by Indian Lake (see station 01314500) and other reservoirs upstream from station. Telephone gage-height telemeter at station.

AVERAGE DISCHARGE.--89 years, 1,576 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,900 ft³/s, Dec. 31, 1948, gage height, 12.14 ft; minimum, 112 ft³/s, July 26, 1934, gage height, 1.96 ft; minimum daily, 114 ft³/s, July 26, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,100 ft³/s, Oct. 22, gage height, 9.91 ft; minimum, 241 ft³/s, Sept. 22, gage height, 2.40 ft; minimum daily, 266 ft³/s, Sept. 20.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	460	2290	e1600	e820	2350	2120	1930	6410	1540	917	931	415
2	371	2390	e1600	e800	e2000	1890	2440	6380	1460	832	1060	374
3	439	3320	e1500	e780	e1800	1750	2400	5350	1390	895	1070	331
4	449	4000	e1500	e780	e1600	1530	2200	5160	1450	1220	981	365
5	590	3370	e1400	e780	e1500	1420	1990	5220	1540	2170	924	368
6	1130	2680	e1400	e780	1480	1370	1880	4780	1400	2430	805	365
7	1690	2230	e1300	e780	1420	1320	1890	4260	1330	2110	741	420
8	1720	2000	e1300	e800	1460	1230	1910	3660	2140	1780	620	352
9	1470	1820	e1200	e800	1430	1150	1770	3250	3350	1400	617	405
10	1140	1570	e1100	e780	1470	1140	1670	3300	5240	1190	637	444
11	988	1490	e1000	e760	1310	1090	1670	5780	5210	1090	524	484
12	907	6580	e1000	e740	e1200	1050	1740	11300	4690	850	524	482
13	826	6870	e1000	e720	e1100	1010	2050	10300	4360	872	516	465
14	811	5190	e1100	e720	e1100	1000	2770	7390	3920	980	550	520
15	2770	4100	e1100	e720	e1000	1130	3260	5590	3440	1100	440	439
16	3880	3670	e1100	e720	e960	1340	7580	4530	2670	2160	500	396
17	3170	3160	e1100	e700	e980	1440	8730	3960	2080	2650	593	424
18	2660	2910	e1000	e700	e1000	1290	6120	3490	1910	2120	527	427
19	2110	2560	e1000	e2600	e1000	1280	4810	4490	1680	1710	480	459
20	1760	2260	e960	e8800	1120	1380	4910	5000	1420	1700	480	266
21	4610	2130	e940	8350	1530	1420	7400	4800	1480	1720	524	349
22	16700	2120	e900	5950	2660	1410	8410	4820	1570	1490	427	314
23	11800	2010	e900	4330	3390	1350	10200	4240	1680	1220	459	293
24	6770	1800	e880	3450	3770	1260	13500	3560	2220	944	532	379
25	4580	1660	e880	3410	3940	1220	9910	2920	1790	969	487	426
26	3530	1610	e860	3260	3670	1760	7320	2560	1770	1110	443	412
27	2860	1610	e860	3670	2910	2070	6480	2400	1390	1120	454	392
28	3160	1620	e840	5800	2530	1940	5570	2070	1090	954	450	475
29	3390	1770	e840	5490	2390	1800	4460	1780	1100	907	476	514
30	3130	1690	e840	4430	---	1790	4150	1740	1060	819	462	666
31	2620	---	e820	3340	---	1770	---	1670	---	793	504	---
TOTAL	92491	82480	33820	76560	54070	44720	141120	142160	67370	42222	18738	12421
MEAN	2984	2749	1091	2470	1864	1443	4704	4586	2246	1362	604	414
MAX	16700	6870	1600	8800	3940	2120	13500	11300	5240	2650	1070	666
MIN	371	1490	820	700	960	1000	1670	1670	1060	793	427	266

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1907 - 1996, BY WATER YEAR (WY)

	MEAN	1183	1485	1324	1160	1102	1834	4221	2836	1268	833	787	885
MAX	3923	3089	3277	2801	3846	5643	7258	6671	4768	2252	1701	2455	
(WY)	1978	1989	1984	1949	1981	1921	1993	1971	1947	1947	1986	1938	
MIN	409	427	299	189	223	257	1335	772	353	161	257	365	
(WY)	1964	1924	1931	1931	1940	1940	1995	1987	1988	1934	1985	1983	

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR				FOR 1996 WATER YEAR				WATER YEARS 1907 - 1996			
ANNUAL TOTAL	494754				808172							
ANNUAL MEAN	1355				2208				1576			
HIGHEST ANNUAL MEAN									2449			
LOWEST ANNUAL MEAN									862			
HIGHEST DAILY MEAN	16700				16700				23900			
LOWEST DAILY MEAN	135				266				114			
ANNUAL SEVEN-DAY MINIMUM	148				348				120			
10 PERCENT EXCEEDS	2990				4850				3330			
50 PERCENT EXCEEDS	959				1470				990			
90 PERCENT EXCEEDS	313				476				460			

e Estimated

HUDSON RIVER BASIN

39

01318500 HUDSON RIVER AT HADLEY, NY

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

DRAINAGE AREA.--1,664 mi².

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

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

GAGE.--Water-stage recorder. Datum of gage is 563.99 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Some diurnal fluctuation caused by powerplant on Schroon River. Flow regulated by Indian Lake (see station 01314500) and other reservoirs upstream from station. Telephone and satellite gage-height telemeters at station.

AVERAGE DISCHARGE.--75 years, 2,928 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42,700 ft³/s, Jan. 1, 1949, gage height, 21.21 ft; minimum, 261 ft³/s, July 7, 1995; minimum gage height, 0.94 ft, Sept. 3, 1934, July 7, 1995; minimum daily discharge, 282 ft³/s, Sept. 11, 1991.

EXTREMES OUTSIDE PERIOD OF RECORD.--Discharge for the flood of March 27, 1913, was about 49,000 ft³/s, based on peak runoff comparison with a station 12.7 mi upstream (drainage area 1,533 mi²).

EXTREMES 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)
Oct. 22	1215	*22,300	*12.91	Apr. 24	1430	20,000	11.95
Jan. 20	0400	a18,000	ice jam	May 12	2145	20,000	11.96
Apr. 17	0130	17,200	10.75				

a About; result of ice jam release.

Minimum discharge, 415 ft³/s, Sept. 21, gage height, 1.39 ft; minimum daily, 489 ft³/s, Sept. 21.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	723	5230	3150	1710	6720	4530	3480	11800	3040	1880	1620	695
2	624	5200	3070	1590	6180	4200	4100	11900	2810	1640	1770	615
3	548	6170	2840	1440	5630	3930	4320	10700	2600	1650	1840	575
4	657	7160	2840	1390	4620	3150	4050	9920	2630	2040	1970	530
5	711	6700	2750	e1400	4030	2900	3810	10300	2630	3000	1790	553
6	1390	5780	2710	e1400	3800	2800	3590	9530	2570	3540	1570	558
7	2200	5100	2580	e1400	3580	2720	3590	8880	2310	3290	1380	551
8	2510	4710	2510	e1400	3600	2380	3720	7760	2760	2900	1290	627
9	2250	4360	2300	e1500	3320	2160	3680	6860	4050	2510	1190	606
10	2010	3910	2100	e1500	3320	e2100	3530	6600	6010	2090	1160	636
11	1690	3590	1900	e1400	3010	e2100	3380	9030	7150	1990	1110	649
12	1540	8570	1800	e1300	e2700	e2100	3480	16900	6780	1710	994	684
13	1440	11600	1870	e1300	e2100	e2100	3790	18100	6380	1700	955	695
14	1360	9610	1910	e1300	e2100	e2100	4800	14100	6300	1960	914	704
15	2550	8440	1980	e1300	e2000	e2200	5740	11500	5950	2030	907	745
16	5000	7810	e2100	e1200	e1900	2920	11200	9780	5300	2600	807	670
17	4490	7020	e2100	e1200	e1800	2860	15800	8840	4390	3660	862	645
18	3940	6300	e2000	e1300	e1900	2800	12500	7850	3960	3320	916	678
19	3360	5930	e1900	e2600	e1800	2820	10300	8420	3610	2760	842	678
20	2860	5270	1750	e14000	e1800	2970	9660	9380	3090	2520	779	696
21	3980	4960	1820	13700	e2400	3210	11500	8620	2990	2550	804	489
22	20100	4710	1810	11400	3990	3230	13300	8580	2850	2350	802	566
23	17200	4500	e1800	9420	5570	3040	14800	7810	2900	2060	725	849
24	11700	4130	e1800	8050	6740	2800	19000	6850	3060	1660	764	718
25	8750	3670	e1800	8390	7510	2750	17100	5830	3260	1500	767	735
26	7180	3480	e1700	7710	6950	3390	13500	5030	2970	1810	739	835
27	6090	3380	e1700	7840	6350	3830	12300	4610	2630	2080	696	686
28	7440	3330	e1600	11500	5150	3680	11000	4280	2210	1860	715	656
29	7490	3370	e1600	11000	5130	3500	9610	3670	2010	1600	703	906
30	6750	3310	e1600	9860	---	3400	9040	3470	1950	1510	706	1020
31	5860	---	e1600	8590	---	3360	---	3220	---	1410	673	---
TOTAL	144393	167300	64990	149090	115700	92030	249670	270120	111150	69180	32760	20250
MEAN	4658	5577	2096	4809	3990	2969	8322	8714	3705	2232	1057	675
MAX	20100	11600	3150	14000	7510	4530	19000	18100	7150	3660	1970	1020
MIN	548	3310	1600	1200	1800	2100	3380	3220	1950	1410	673	489

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 1996, BY WATER YEAR (WY)

	1955	2673	2548	2195	2014	3642	8378	5339	2410	1445	1200	1356
MEAN	7087	5657	6925	6548	6948	11670	14230	11820	9497	4201	2717	4135
MAX	1978	1960	1984	1949	1981	1936	1993	1972	1947	1935	1986	1938
(WY)	575	681	551	397	384	451	2531	1576	737	392	396	590
MIN	1965	1931	1931	1931	1940	1940	1995	1987	1988	1934	1985	1995
(WY)												

e Estimated.

HUDSON RIVER BASIN

01318500 HUDSON RIVER AT HADLEY, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1922 - 1996	
ANNUAL TOTAL	876344		1486633			
ANNUAL MEAN	2401		4062		2928	
HIGHEST ANNUAL MEAN					4574	1976
LOWEST ANNUAL MEAN					1408	1965
HIGHEST DAILY MEAN	20100	Oct 22	20100	Oct 22	38100	Jan 1 1949
LOWEST DAILY MEAN	285	Jul 7	489	Sep 21	282	Sep 11 1991
ANNUAL SEVEN-DAY MINIMUM	304	Jul 1	571	Sep 3	299	Jul 20 1934
10 PERCENT EXCEEDS	5830		9450		6500	
50 PERCENT EXCEEDS	1690		2840		1800	
90 PERCENT EXCEEDS	452		738		784	

HUDSON RIVER BASIN

41

01321000 SACANDAGA RIVER NEAR HOPE, NY

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

DRAINAGE AREA.--491 mi².

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

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

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some seasonal regulation on West Branch Sacandaga River at Piseco Lake Outlet, about 17 mi upstream, and, since 1959, diurnal fluctuation caused by powerplant 4 mi upstream from station at Lake Algonquin. Minor fluctuations caused by mill upstream. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--85 years, 1,104 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,000 ft³/s, Mar. 27, 1913, gage height, 11.0 ft, from floodmarks at site then in use; maximum gage height, 13.32 ft, Mar. 1, 1955 (ice jam); minimum discharge, about 16 ft³/s, Sept. 30, 1913, gage height, 1.17 ft; minimum gage height, 1.15 ft, Aug. 7, 8, 11, 1964; minimum daily discharge, 18 ft³/s, Sept. 20, 1913.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 9,100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 21	1930	20,400	8.95	Jan. 19	2300	*22,400	*9.29
Nov. 12	1215	10,200	6.80	Apr. 16	1630	11,800	7.20

Minimum discharge, 55 ft³/s, Sept. 7, gage height, 1.37 ft; minimum daily, 57 ft³/s, Sept. 7.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	187	1810	986	e570	e1700	e1600	1790	5160	549	284	622	169
2	136	2090	928	e560	e1400	e1400	2340	3860	488	257	500	162
3	159	2910	748	e550	e1200	e1200	2120	3080	460	263	462	93
4	278	2820	865	e540	e1000	e1000	1970	3240	580	677	570	138
5	341	2300	727	e540	e980	e940	1750	3410	562	1000	459	70
6	1110	1920	735	e540	e960	e900	1710	2960	439	642	359	103
7	1090	1680	611	e570	e940	e800	1790	2650	526	506	295	57
8	866	1570	648	e600	e940	e740	1680	2280	881	416	209	105
9	693	1380	557	e600	e880	e700	1550	1960	1150	352	257	141
10	578	1190	e560	e580	e760	e680	1450	2090	1850	288	193	150
11	494	1120	e580	e560	e700	672	1360	4570	2510	256	181	151
12	368	6440	e580	e540	e620	652	1610	7660	2630	235	184	143
13	388	3950	e600	e520	e560	660	2020	5160	3420	337	126	123
14	529	3170	e700	e500	e550	722	3300	3910	2330	618	120	146
15	3440	2920	e780	e500	e540	956	3140	3140	1770	610	125	150
16	2560	2670	e760	e500	e530	1260	9040	2750	1370	1090	139	117
17	2100	2260	e740	e520	e540	1160	7360	2460	1090	955	120	127
18	1920	1940	e700	e1000	e560	1120	4990	2260	891	753	108	177
19	1510	1730	e680	e6600	e560	1150	4000	2670	788	682	105	156
20	1260	1510	e660	10600	e580	1410	4300	2520	837	804	99	135
21	7170	1370	e660	e4700	e960	1390	6080	2270	805	588	205	118
22	11500	1280	e640	e3700	e2100	1310	5350	2080	700	493	166	92
23	6000	1180	e620	e2900	e2700	1120	6140	1760	645	399	155	516
24	4300	1080	e600	e2600	e3400	989	6200	1530	574	353	161	414
25	3200	884	e600	e2900	e3500	1010	4650	1300	508	312	138	353
26	2100	964	e600	e2700	e2600	1870	3920	1140	522	426	129	363
27	2160	903	e600	e3600	e2200	1850	3570	986	367	434	132	534
28	2710	996	e590	5590	e2000	1540	2860	878	325	323	309	498
29	3030	1160	e580	3660	e1800	1430	2750	768	310	259	283	1210
30	2430	931	e580	2880	---	1450	3010	693	304	236	224	903
31	2030	---	e570	2390	---	1550	---	616	---	311	187	---
TOTAL	66637	58128	20785	65110	37760	35231	103800	81811	30181	15159	7322	7614
MEAN	2150	1938	670	2100	1302	1136	3460	2639	1006	489	236	254
MAX	11500	6440	986	10600	3500	1870	9040	7660	3420	1090	622	1210
MIN	136	884	557	500	530	652	1360	616	304	235	99	57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1996, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1911	736	2677	1946	53.4	1965
1912	1117	2727	1960	205	1965
1913	1031	2988	1928	235	1918
1914	852	2607	1937	188	1931
1915	711	3197	1981	172	1920
1916	1637	5315	1936	207	1940
1917	3586	6143	1922	1096	1995
1918	1775	4342	1972	425	1941
1919	733	2752	1947	133	1949
1920	428	2221	1935	72.3	1949
1921	271	1225	1915	52.9	1934
1922	385	1604	1987	79.4	1939

e Estimated

HUDSON RIVER BASIN

01321000 SACANDAGA RIVER NEAR HOPE, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1911 - 1996	
ANNUAL TOTAL	334004		529538		1104	
ANNUAL MEAN	915		1447		1706	1976
HIGHEST ANNUAL MEAN					611	1965
LOWEST ANNUAL MEAN					23500	Mar 27 1913
HIGHEST DAILY MEAN	11500	Oct 22	11500	Oct 22	18	Sep 20 1913
LOWEST DAILY MEAN	37	Sep 7	57	Sep 7	26	Sep 10 1913
ANNUAL SEVEN-DAY MINIMUM	43	Sep 2	101	Sep 3	2680	
10 PERCENT EXCEEDS	2270		3330		565	
50 PERCENT EXCEEDS	596		821		137	
90 PERCENT EXCEEDS	68		168			

HUDSON RIVER BASIN

43

01323500 GREAT SACANDAGA LAKE AT CONKLINGVILLE, NY

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

DRAINAGE AREA.--1,044 mi².

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

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

REMARKS.--Reservoir is formed by earth and concrete dam; storage began in March 1930; dam completed in 1930. Usable capacity for stream regulation, 29.670 bil ft³ between elevations 735.0 ft and 768.0 ft. Between elevations 768.0 ft and 771.0 ft (spillway crest) an additional 3.450 bil ft³ is available exclusively for flood storage. Elevation of inverts of three Dow valves is 699.0 ft. Capacity of 4.600 bil ft³ below elevation 735.0 ft is considered dead storage, except for extraordinary emergencies or for necessary inspection of structures. Purpose of reservoir is to provide flood control and low-water stream regulation for sanitary improvement, navigation, and power, as required by the public welfare, including public health and safety. Area of water surface of reservoir filled to capacity, elevation, 771.0 ft, is 41.7 mi². Discharge over spillway May 1-10, 1983, May 18-25, 1990, Apr. 25-28, 1993 (only spillage since dam completion in 1930). Satellite gage-height telemeter at station.

COOPERATION.--Supplemental records provided by Board of Hudson River-Black River Regulating District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 773.29 ft, May 4, 1983, contents, 40.418 bil ft³; minimum since first filling, 729.55 ft, Mar. 30, 1940, contents, 2.100 bil ft³.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 770.32 ft, May 14, contents, 36.932 bil ft³; minimum, 750.71 ft, Jan. 18, contents, 16.589 bil ft³.

Capacity table (including dead storage)
(elevation, in feet, and contents, in billions of cubic feet)

738	6.43	760	25.61
740	7.80	764	29.85
745	11.64	768	34.27
750	15.94	771	37.72
755	20.61	774	41.26

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	751.65	761.04	760.13	753.79	758.58	757.21	757.01	769.60	767.60	767.87	767.39	763.87
2	751.54	761.18	759.86	753.64	758.57	757.27	757.27	769.71	767.57	767.80	767.37	763.71
3	751.41	761.50	759.52	753.52	758.38	757.35	757.54	769.59	767.54	767.74	767.31	763.57
4	751.33	761.79	759.27	753.41	758.18	757.32	757.82	769.42	767.56	767.83	767.27	763.40
5	751.21	761.96	758.93	753.26	757.94	757.26	758.09	769.30	767.61	767.93	767.24	763.26
6	751.37	762.03	758.71	753.09	757.69	757.13	758.35	769.12	767.57	767.94	767.19	763.07
7	751.61	762.07	758.39	752.91	757.42	757.02	758.60	769.04	767.55	767.90	767.11	762.87
8	751.77	762.14	758.00	752.75	757.19	756.93	758.94	769.01	767.63	767.90	767.03	762.79
9	751.83	762.01	757.70	752.58	757.00	756.79	759.18	768.90	767.71	767.87	766.97	762.70
10	751.90	761.81	757.52	752.43	756.76	756.63	759.44	768.79	767.82	767.84	766.88	762.52
11	751.98	761.65	757.23	752.27	756.59	756.46	759.69	768.83	768.02	767.77	766.77	762.40
12	751.99	762.03	756.93	752.08	756.34	756.29	759.88	769.45	768.23	767.68	766.67	762.19
13	751.97	762.46	756.65	751.96	756.06	756.13	760.12	770.05	768.61	767.67	766.55	762.01
14	752.00	762.56	756.36	751.78	755.76	755.99	760.67	770.23	768.79	767.87	766.41	761.95
15	752.48	762.77	756.18	751.58	755.50	755.95	761.24	770.12	768.87	767.95	766.26	761.78
16	752.92	762.94	755.99	751.41	755.21	755.95	762.42	769.89	768.84	768.13	766.15	761.63
17	753.13	762.93	755.80	751.23	754.95	755.96	764.37	769.66	768.72	768.24	765.99	761.43
18	753.35	762.85	755.60	751.08	754.68	755.93	765.24	769.40	768.56	768.24	765.82	761.32
19	753.54	762.80	755.40	751.12	754.36	755.89	765.82	769.22	768.48	768.20	765.65	761.21
20	753.68	762.71	755.30	752.60	754.04	755.95	766.35	769.00	768.42	768.20	765.50	761.07
21	754.06	762.60	755.21	753.67	753.78	756.07	767.03	768.72	768.39	768.09	765.38	760.90
22	756.31	762.50	755.10	754.28	753.66	756.17	767.68	768.59	768.28	767.98	765.23	760.71
23	757.53	762.29	754.99	754.70	753.92	756.20	768.21	768.52	768.21	767.88	765.09	760.63
24	758.18	761.99	754.88	755.12	754.55	756.17	768.88	768.42	768.09	767.76	764.95	760.62
25	758.66	761.70	754.78	755.64	755.41	756.13	769.22	768.30	768.07	767.67	764.84	760.52
26	758.92	761.43	754.68	756.05	756.01	756.26	769.44	768.21	768.04	767.67	764.66	760.41
27	759.14	761.14	754.55	756.45	756.45	756.43	769.61	768.06	768.01	767.65	764.46	760.27
28	759.67	760.92	754.40	757.15	756.88	756.54	769.57	767.95	767.95	767.58	764.43	760.18
29	760.36	760.60	754.26	757.69	757.13	756.65	769.44	767.84	767.91	767.48	764.33	760.18
30	760.73	760.36	754.12	758.11	---	756.75	769.40	767.74	767.88	767.39	764.19	760.19
31	760.96	---	753.95	758.41	---	756.87	---	767.69	---	767.34	764.04	---
MEAN	754.43	761.96	756.46	753.73	756.17	756.50	763.22	768.98	768.08	767.84	765.97	761.78
MAX	760.96	762.94	760.13	758.41	758.58	757.35	769.61	770.23	768.87	768.24	767.39	763.87
MIN	751.21	760.36	753.95	751.08	753.66	755.89	757.01	767.69	767.54	767.34	764.04	760.18
+	26.63	25.82	19.49	24.13	22.74	22.61	35.78	33.84	34.07	33.54	29.78	25.69
++	+3,398	-312	-2,363	+1,732	-555	-49	+5,081	-724	+89	-198	-1,404	-1,578

CAL YR 1995 MEAN 756.41 MAX 762.94 MIN 748.09 ++ +21
WTR YR 1996 MEAN 761.26 MAX 770.23 MIN 751.08 ++ +259

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

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

HUDSON RIVER BASIN

01325000 SACANDAGA RIVER AT STEWARTS BRIDGE, NEAR HADLEY, NY

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

DRAINAGE AREA.--1,055 mi².

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

REVISED RECORDS.--WSP 1302: 1908. WSP 1432: 1910-12, 1916-21, WDR NY-83-1: 1968(M), 1971-72(M), 1976-77(M), 1979(M).

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

REMARKS.--No estimated daily discharges. Records good except those below about 50 ft³/s, which are fair. Flow regulated by Great Sacandaga Lake since Mar. 27, 1930 (see station 01323500); discharge over spillway May 1-10, 1983, May 18-25, 1990, Apr. 25-28, 1993 (only spillage since completion of Conklingville Dam in 1930). Extensive diurnal fluctuation caused by release of water from Great Sacandaga Lake, through Elmer J. West hydroelectric station directed by Board of Hudson River-Black River Regulating District and through Stewarts Bridge hydroelectric station. Satellite gage-height telemeter at station.

COOPERATION.--From Oct. 1, 1932, to Dec. 4, 1979, discharge computed by Board of Hudson River-Black River Regulating District from rating developed by Geological Survey. Since Dec. 4, 1979, discharge computed by U.S. Geological Survey.

AVERAGE DISCHARGE.--89 years, 2,151 ft³/s, 27.69 in/yr, adjusted for storage since 1930.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 35,500 ft³/s, Mar. 28, 1913, gage height, 12.36 ft, site and datum then in use; minimum, 4.2 ft³/s, May 4, 1985, Mar. 30, 31, Apr. 1-10, 11, 13, 14, 15, 1992; minimum daily, 4.2 ft³/s, Mar. 31, Apr. 1-10, 14, 1992. Maximum discharge since construction of Conklingville Dam in 1930, 13,300 ft³/s, May 4, 1983, gage height, 9.68 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,030 ft³/s, May 3, gage height, 7.49 ft; minimum, 12 ft³/s, Apr. 2; minimum daily, 28 ft³/s, Oct. 19.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1580	2110	5100	2340	110	2200	1470	7840	1450	1050	1510	2190
2	1510	2020	4980	2460	4000	2080	1440	6850	1030	1060	1540	2200
3	1520	1940	4960	2350	4090	2020	1040	7950	1120	1380	1540	2190
4	1510	2000	5010	2420	4140	2010	44	7930	1050	1540	1560	2080
5	1360	2000	5030	2350	4080	2990	42	7910	1120	1390	1540	2300
6	1020	1990	5160	2360	4030	3050	41	7610	1040	1040	1550	2170
7	685	2170	4670	2360	4010	3150	42	4870	1050	1040	1550	2210
8	359	3110	4890	2320	4090	3060	42	4940	1090	998	1570	2210
9	31	4000	4070	2700	4100	3050	42	5050	1050	1050	1610	2200
10	30	4010	4040	2340	4090	3000	41	5160	1040	1040	1720	2200
11	534	3690	4020	2560	4090	3050	40	5120	1120	1040	1730	2180
12	519	4370	3960	2560	4050	3080	40	5220	1110	1250	1710	2190
13	686	4000	4020	2570	4020	3000	161	5220	2040	1230	1880	2220
14	709	4050	4020	2570	3920	2530	47	5920	1440	1210	2090	2180
15	685	4010	3240	2620	4060	2220	41	7430	1280	1210	1780	2220
16	361	4000	3170	2160	4100	2670	311	7640	3070	1200	2410	1920
17	30	4020	3150	2520	3930	2490	52	7630	3000	1210	2210	2130
18	29	4020	3220	2420	4030	2530	44	7080	3010	2030	2180	2060
19	28	4010	3230	2410	4040	2530	105	7480	2060	2100	2270	2220
20	513	3960	2190	340	4030	2800	45	7810	2050	1990	2320	2320
21	542	3990	2020	50	4100	2500	46	6430	2030	2040	2250	2210
22	33	4520	2020	315	4030	2530	1900	5030	2010	1990	2260	2330
23	30	5010	2020	42	172	2040	4080	2510	2030	2050	2230	1620
24	29	5110	2020	45	134	2550	4080	4000	2040	1910	2130	1750
25	30	5030	2020	44	67	2050	4110	3310	1040	1550	2200	2320
26	30	5030	2020	42	53	2040	4250	3140	1050	1540	2180	2270
27	30	5050	2350	45	108	2040	4970	2970	1040	1540	2210	2210
28	40	5030	2290	136	43	1550	5260	2770	1040	1550	2340	2540
29	265	5040	2340	129	2010	1540	6750	2130	1020	1520	2210	2460
30	29	5070	2340	47	---	1520	7830	2130	1010	1540	2160	2210
31	987	---	2340	198	---	1530	---	1890	---	1550	2180	---
TOTAL	15744	114360	105910	47823	87727	75400	48406	168970	45530	44838	60620	65510
MEAN	508	3812	3416	1543	3025	2432	1614	5451	1518	1446	1955	2184
MAX	1580	5110	5160	2700	4140	3150	7830	7950	3070	2100	2410	2540
MIN	28	1940	2020	42	43	1520	40	1890	1010	998	1510	1620

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

MEAN	3903	3494	1062	3272	2476	2375	6697	4729	1611	1247	550	604
CFM	3.70	3.31	1.01	3.10	2.35	2.25	6.35	4.48	1.53	1.18	0.52	0.57
IN.	4.27	3.69	1.16	3.57	2.53	2.60	7.08	5.17	1.70	1.36	0.60	0.64

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1996, BY WATER YEAR (WY)

MEAN	1971	2237	2505	2739	2734	1950	1201	2409	2014	1940	1913	1846
MAX	5149	5177	4935	5026	4910	3921	5691	7035	5203	4589	3013	2846
(WY)	1946	1976	1960	1978	1973	1972	1979	1983	1947	1935	1935	1994
MIN	508	1224	1117	1210	1144	89.0	5.85	40.5	711	927	872	963
(WY)	1996	1994	1965	1965	1931	1954	1985	1931	1987	1941	1995	1941

HUDSON RIVER BASIN

45

01325000 SACANDAGA RIVER AT STEWARTS BRIDGE, NEAR HADLEY, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1931 - 1996	
ANNUAL TOTAL	595911.2		880838			
ANNUAL MEAN	1633		2407		2120	
ANNUAL MEAN (ADJUSTED)*	1654		2666		2151	
HIGHEST ANNUAL MEAN					3452 1976	
LOWEST ANNUAL MEAN					1122 1965	
HIGHEST DAILY MEAN	5160	Dec 6	7950	May 3	12800	May 4 1983
LOWEST DAILY MEAN	5.2	Mar 29	28	Oct 19	4.2	Mar 31 1992
ANNUAL SEVEN-DAY MINIMUM	28	Mar 25	32	Oct 22	4.2	Mar 31 1992
ANNUAL RUNOFF (CFSM, ADJUSTED)*	1.57		2.53		2.04	
ANNUAL RUNOFF (INCHES, ADJUSTED)*	21.28		34.40		27.69	
10 PERCENT EXCEEDS	3420		4970		4040	
50 PERCENT EXCEEDS	1190		2170		2090	
90 PERCENT EXCEEDS	41		53		30	

* Water years 1908 to current, adjusted for storage since 1930.

HUDSON RIVER BASIN

01325010 HUDSON RIVER SOUTH OF LAKE LUZERNE, NY
 (National water-quality assessment program station)

LOCATION.--Lat 43°18'17", long 73°50'00", Warren County, Hydrologic Unit 02020003, at bridge on State Highway 9N, 0.8 mi downstream from Sacandaga River, and 0.8 mi south of Lake Luzerne.

DRAINAGE AREA.--not determined.

PERIOD OF RECORD.--Water years 1993 to current year.

CHEMICAL DATA: 1993 (c), 1994 (d), 1995 (c), 1996 (a).

MINOR ELEMENTS DATA: 1993 (a).

PESTICIDE DATA: 1993-94, 1996 (a).

ORGANIC DATA: OC--1993 (c), 1994 (d), 1995 (c).

PCB--1993 (a).

PCN--1993 (a).

NUTRIENT DATA: 1993 (c), 1994 (d), 1995 (c).

BIOLOGICAL DATA:

Bacteria--1993 (a).

Phytoplankton--1993 (a).

SEDIMENT DATA: 1993 (c), 1994 (d), 1995 (c).

REMARKS.--Water-discharge data based on records obtained for Hudson River at Hadley (station 01318500) and Sacandaga River at Stewarts Bridge, near Hadley (station 01325000).

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

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED SATUR- ATION (00301)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)
JUN 27...	1130	2880	56	6.3	22.0	19.5	749	9.5	105	0.004	E0.002	E0.003

E Estimate.

HUDSON RIVER BASIN

47

01327750 HUDSON RIVER AT FORT EDWARD, NY

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

DRAINAGE AREA.--2,817 mi².

PERIOD OF RECORD.--January 1899 to December 1908, December 1976 to current year.

GAGE.--Water-stage recorder. Datum of gage is 100.00 ft above sea level. Prior to December 1976, nonrecording gage at different site and datum.

REMARKS.--Records poor. Flow regulated appreciably by Great Sacandaga Lake since March 1930 (see station 01323500) and Indian Lake since 1898 (see station 01314500). Diurnal fluctuation caused by powerplants upstream from station. Water is diverted into St. Lawrence River basin through Glens Falls feeder, Bond Creek, and Champlain (Barge) Canal, and occasionally may be received from that basin through summit level of Champlain (Barge) Canal at Dunham Basin. Telephone gage-height telemeter at station.

AVERAGE DISCHARGE.--19 years (1978-96), 5,181 ft³/s.

EXTREMES FOR PERIOD OF RECORD (December 1976 to current year).--Maximum discharge, 35,200 ft³/s, May 3, 1983, gage height, 28.34 ft; maximum gage height, 28.71 ft, Jan. 11, 1978 (ice jam); minimum discharge, 234 ft³/s, July 25, 1983; minimum gage height, 19.33 ft, Sept. 4, 1978; minimum daily discharge, 652 ft³/s, Sept. 4, 1978.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 89,100 ft³/s, Mar. 28, 1913, at site about 14 mi upstream (drainage area, 2,779 mi²).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27,200 ft³/s, May 13, gage height, 26.75 ft; minimum, 339 ft³/s, Sept. 17, gage height, 19.84 ft; minimum daily discharge, 1,690 ft³/s, Oct. 4.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2350	7240	8360	e4400	8060	6770	5590	20100	e5000	3190	3220	3170
2	2610	7330	8220	e4300	7960	6460	5410	20600	e3900	2960	3580	2680
3	1910	7670	8010	e4100	9680	5960	6020	19300	e4000	2260	3670	2750
4	1690	8940	7790	e4100	9440	5310	5480	18700	e3900	4130	3590	3400
5	2100	9020	7940	e4000	8890	5700	4250	19200	e4100	3980	3590	2400
6	3160	8160	7980	e4000	8060	6160	3900	18300	e3800	4710	3370	3260
7	2500	7370	7710	e4100	7790	5930	4050	15800	e3700	4760	3600	2500
8	3470	7370	7100	e4200	7290	5890	4040	13500	e5000	e4300	3020	2530
9	2380	8160	7030	e4600	7500	5340	4250	12100	e7000	3930	3450	4070
10	2170	8070	6340	e4200	7240	5560	4220	11700	e8000	2910	2400	3860
11	2200	7600	6260	e4400	7270	5720	3870	13600	e8800	3320	3070	2950
12	2040	10300	6410	e4000	6990	5540	3960	22000	7850	3070	3130	3120
13	2030	16200	6040	e4100	6370	5590	4300	26000	7800	3480	2810	2180
14	2290	14100	6380	e4100	6000	5350	5290	22000	8320	3150	3450	2030
15	2670	12600	5800	e4200	6230	4860	6230	19900	7490	3910	2950	2690
16	4940	11700	5670	e3900	6410	5350	9220	17600	7920	4240	2390	3790
17	4770	11100	5870	e4000	6000	5660	18700	16300	7920	5030	3570	2600
18	4130	9850	5820	4280	6010	5580	14700	15000	7700	5340	3370	3380
19	3700	10100	5690	5080	6000	5650	11400	14600	5930	5190	3160	2310
20	3550	9830	4530	15800	5970	5680	10400	16900	5870	5060	3290	2970
21	4180	9030	4550	14900	6310	6330	11000	15700	5190	4600	3350	3200
22	15400	8740	4150	12300	7610	6130	14800	13300	5110	4800	3230	2990
23	19200	8950	4040	9740	7070	5610	19600	e11000	4930	4590	3200	2940
24	13100	9320	4660	8550	6720	5750	23400	e12000	5000	3770	2740	3100
25	9230	8890	3970	8510	8060	5640	23400	e10000	5330	3450	3110	3510
26	7730	8450	4440	7690	7190	5460	19400	e9000	4470	2860	3080	e3100
27	7250	8490	4760	7280	6740	6160	17900	e8000	3600	3980	2420	3220
28	6920	8370	4280	10600	5980	5990	17200	e7800	3750	3870	3280	3510
29	8410	8340	4330	11100	6360	5650	16600	e7000	3210	3760	3190	4130
30	6920	8490	e4300	9730	---	5510	17800	e6000	2950	2890	3010	3530
31	6940	---	e4200	8660	---	5140	---	e5700	---	3400	2920	---
TOTAL	161940	279780	182630	204920	207200	177430	316380	458700	167540	120890	98210	91870
MEAN	5224	9326	5891	6610	7145	5724	10550	14800	5585	3900	3168	3062
MAX	19200	16200	8360	15800	9680	6770	23400	26000	8800	5340	3670	4130
MIN	1690	7240	3970	3900	5970	4860	3870	5700	2950	2260	2390	2030

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1996, BY WATER YEAR (WY)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
MEAN	4450	5724	5638	5192	5122	5898	10030	7574	3978	2799	2881	3168								
MAX	9773	9326	9581	9907	8616	10950	16790	16670	6345	4237	4586	4478								
(WY)	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	
MIN	2707	2963	2957	2714	2697	3387	3177	2231	1922	1786	1962	2361								
(WY)	1981	1979	1979	1989	1989	1989	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR			FOR 1996 WATER YEAR			WATER YEARS 1977 - 1996		
ANNUAL TOTAL	1508747			2467490					
ANNUAL MEAN	4134			6742			5181		
HIGHEST ANNUAL MEAN							6768		
LOWEST ANNUAL MEAN							3569		
HIGHEST DAILY MEAN	19200			26000			34100		
LOWEST DAILY MEAN	907			1690			652		
ANNUAL SEVEN-DAY MINIMUM	1270			2250			1270		
10 PERCENT EXCEEDS	8350			13400			9150		
50 PERCENT EXCEEDS	3140			5550			4000		
90 PERCENT EXCEEDS	1650			2950			2370		

e Estimated

HUDSON RIVER BASIN

01327755 HUDSON RIVER AT ROGERS ISLAND AT FORT EDWARD, NY
(National water-quality assessment program station)

LOCATION.--Lat 43°15'52", long 73°35'28", Saratoga-Washington Counties, Hydrologic Unit 02020003, at bridges on State Highway 197 over Rogers Island in Fort Edward, 0.4 mi downstream from discharge station (01327750, Hudson River at Fort Edward), and 0.6 mi upstream from Champlain Canal.

DRAINAGE AREA.--2,817 mi², at gage.

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

CHEMICAL DATA: 1975-76 (a), 1980 (b), 1981 (d), 1982-84 (e), 1985 (d), 1986-87 (e), 1988, 1996 (a).

MINOR ELEMENT DATA: 1975 (b), 1976-77 (a), 1978-79 (e), 1980 (d), 1986 (b), 1987 (e), 1988 (a).

PESTICIDE DATA: 1975, 1977 (a), 1978-79 (e), 1980, 1996 (a).

ORGANIC DATA: OC--1975 (a).

PCB--1975, 1977 (a), 1978-84 (e), 1985 (d), 1986 (e), 1987 (d), 1988-89 (e), 1991-92 (d), 1993-96 (e).

PCN--1977 (a), 1978-79 (e), 1980 (a).

NUTRIENT DATA: 1975-77 (a), 1978 (e).

SEDIMENT DATA: 1975 (b), 1980-84 (e), 1985 (d), 1986-89, 1991 (e), 1992 (d), 1993-96 (e).

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: March 1978 to September 1979.

REMARKS.--Water-discharge data are for Hudson River at Fort Edward (station 01327750). Samples for PCB analysis are collected from both the navigation canal (east channel) and river (west channel). Discharge for PCB analysis is estimated to be one-third of the total discharge at 01327750 for canal samples and two-thirds for river samples.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)
		DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	AROCLOR 1254 PCB TOTAL (UG/L) (39504)	AROCLOR 1242 PCB TOTAL (UG/L) (39496)	SAMPLE LOCATION		
JUN 27...	1330	4290	91	6.9	27.5	22.0	761	6.6	76	E0.004	E0.003
OCT											
03...		1025	E967		5	7	<0.01	0.02	CANAL		
03...		1032	2900		5	19	<0.01	0.02	COMPOSITE		
03...		1040	E1930		5	14	<0.01	0.02	RIVER		
19...		1045	E1370		4	16	<0.01	0.02	CANAL		
19...		1100	4100		4	61	<0.01	<0.02	COMPOSITE		
19...		1115	E2730		5	242	<0.01	<0.02	RIVER		
22...		1350	E6530		56	1100	0.07	0.18	CANAL		
22...		1405	19600		53	3150	0.05	0.10	COMPOSITE		
22...		1420	E13100		51	2130	0.04	0.06	RIVER		
23...		1000	E6630		28	671	0.01	0.02	CANAL		
23...		1012	19900		26	1870	0.01	<0.02	COMPOSITE		
23...		1025	E13300		25	1200	0.01	<0.02	RIVER		
26...		1055	E2890		5	47	<0.01	0.02	CANAL		
26...		1102	8670		4	113	<0.01	<0.02	COMPOSITE		
26...		1110	E5780		4	84	<0.01	<0.02	RIVER		
NOV											
13...		1125	16100		10	702	0.02	0.02	COMPOSITE		
DEC											
07...		1050	8090		5	112	<0.01	<0.01	COMPOSITE		
JAN											
21...		1400	12900		12	1100	<0.01	<0.02	COMPOSITE		
31...		1125	6490		9	390	<0.01	<0.02	COMPOSITE		
FEB											
22...		1050	8010		4	152	<0.01	<0.02	COMPOSITE		
MAR											
15...		1152	4190		5	93	<0.01	<0.02	COMPOSITE		
27...		1145	5400		2	35	0.01	0.02	COMPOSITE		
APR											
05...		1000	4260		2	30	<0.01	<0.02	COMPOSITE		
11...		1010	4640		6	94	<0.01	<0.02	COMPOSITE		
18...		1050	14600		10	762	<0.01	<0.02	COMPOSITE		
25...		1015	23800		16	996	<0.01	<0.02	COMPOSITE		
MAY											
01...		1051	20600		10	487	<0.01	<0.02	COMPOSITE		
02...		1027	21500		12	450	<0.01	<0.02	COMPOSITE		
09...		0940	12700		2	79	<0.01	<0.02	COMPOSITE		
14...		1020	22300		12	816	<0.01	0.02	COMPOSITE		
16...		1020	17700		2	71	0.01	0.02	COMPOSITE		
23...		1038	e11000		4	119	<0.01	<0.02	COMPOSITE		
JUN											
03...		1240	e4000		5	54	<0.01	<0.02	COMPOSITE		
21...		0949	4570		4	54	<0.01	0.02	COMPOSITE		
JUL											
15...		1043	3740		3	61	<0.01	<0.02	COMPOSITE		
AUG											
07...		1020	5140		2	23	0.01	0.02	COMPOSITE		

E Estimate.

e Estimated daily.

HUDSON RIVER BASIN

49

01330000 GLOWEGEE CREEK AT WEST MILTON, NY

LOCATION.--Lat 43°01'50", long 73°55'40", Saratoga County, Hydrologic Unit 02020003, on left bank at upstream side of highway bridge, 1.5 mi upstream from mouth, 4.0 mi northwest of Ballston Spa, and 0.5 mi south of West Milton.

DRAINAGE AREA.--26.0 mi².

PERIOD OF RECORD.--April 1948 to June 1963, October 1990 to current year.

GAGE.--Water-stage recorder. Concrete control since June 20, 1952. Datum of gage is 407.22 ft above sea level.

Prior to Aug. 27, 1948, nonrecording gage at highway bridge at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Since May 1955, ground-water pumpage by the Knolls Atomic Power Laboratory, West Milton site, enters Glowegee Creek upstream from station.

AVERAGE DISCHARGE.--20 years (water years 1949-62, 1991-96), 36.8 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,670 ft³/s, Dec. 31, 1948, gage height, 7.04 ft; minimum,

0.37 ft³/s, Aug. 10, 11, 1949, gage height, 0.67 ft (prior to concrete control).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 22	0115	424	5.21	Apr. 16	2015	518	5.47
Jan. 19	2330	*1,300	*7.01	Aug. 28	0445	424	5.21

Minimum discharge, 4.1 ft³/s, Oct. 3, gage height, 2.95 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	33	30	e18	e30	51	49	226	19	14	72	15
2	5.0	56	31	e17	e26	41	74	116	17	11	39	13
3	4.3	87	29	e16	e24	35	60	87	16	13	26	12
4	7.4	75	33	e16	e22	29	49	92	20	42	19	11
5	10	47	e32	e16	e21	28	44	98	19	40	16	11
6	74	37	e27	e16	e20	e27	42	95	17	22	13	9.9
7	44	34	e20	e17	20	e26	46	86	19	16	12	10
8	28	36	e17	e18	21	e26	70	65	55	13	11	14
9	17	31	22	e18	30	e25	65	55	47	12	17	28
10	13	27	23	e18	45	e25	52	61	39	11	20	22
11	9.6	26	24	19	44	e26	44	147	33	10	15	17
12	8.3	236	24	19	45	e27	42	335	29	9.3	12	16
13	8.1	120	21	e18	29	32	46	161	112	120	11	21
14	8.2	82	21	e17	22	40	185	98	49	134	10	27
15	49	151	24	e17	22	68	102	77	28	183	9.5	20
16	28	120	24	e18	20	83	349	75	22	172	14	17
17	17	78	24	e19	20	66	270	95	19	75	20	20
18	13	61	25	e20	19	61	129	90	18	42	16	31
19	11	63	25	288	19	72	91	93	17	37	13	22
20	10	73	23	543	18	138	76	65	27	43	11	16
21	105	69	24	188	51	140	104	54	24	28	19	14
22	202	59	23	119	100	98	83	50	21	21	14	17
23	65	50	23	81	95	67	208	40	18	18	14	77
24	35	43	23	106	171	56	161	39	15	16	16	41
25	27	36	23	142	138	61	97	33	16	17	14	40
26	22	34	23	83	95	109	87	29	14	51	10	29
27	18	35	23	125	77	76	87	26	13	33	12	26
28	143	37	22	156	86	56	66	25	11	23	192	31
29	92	35	21	e72	73	50	115	23	10	18	56	78
30	48	33	e20	e58	---	49	202	22	14	15	29	47
31	34	---	e19	e40	---	48	---	21	---	52	19	---
TOTAL	1161.2	1904	743	2318	1403	1736	3095	2579	778	1311.3	771.5	752.9
MEAN	37.5	63.5	24.0	74.8	48.4	56.0	103	83.2	25.9	42.3	24.9	25.1
MAX	202	236	33	543	171	140	349	335	112	183	192	78
MIN	4.3	26	17	16	18	25	42	21	10	9.3	9.5	9.9

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1996, BY WATER YEAR (WY)

	MEAN	20.4	34.5	36.5	35.7	35.8	73.6	103	44.8	19.6	13.0	10.6	11.1
	MAX	108	73.0	61.5	80.1	77.2	133	204	97.4	36.2	42.3	29.6	30.4
	(WY)	1956	1955	1949	1949	1954	1951	1993	1953	1952	1996	1994	1960
	MIN	4.29	8.83	10.5	8.49	7.68	35.6	35.0	18.2	7.85	2.13	3.04	2.02
	(WY)	1962	1962	1962	1961	1962	1960	1995	1995	1959	1959	1958	1948

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1948 - 1996

ANNUAL TOTAL	10361.6	18552.9	
ANNUAL MEAN	28.4	50.7	36.8
HIGHEST ANNUAL MEAN			53.4
LOWEST ANNUAL MEAN			24.5
HIGHEST DAILY MEAN	236	543	1080
LOWEST DAILY MEAN	3.0	4.3	.40
ANNUAL SEVEN-DAY MINIMUM	3.8	12	.51
10 PERCENT EXCEEDS	68	110	84
50 PERCENT EXCEEDS	19	29	18
90 PERCENT EXCEEDS	4.5	13	4.1

e Estimated

HUDSON RIVER BASIN

01331095 HUDSON RIVER AT STILLWATER, NY
(National water-quality assessment program station)

LOCATION.--Lat 42°56'08", long 73°39'08", Rensselaer County, Hydrologic Unit 02020003, on left bank at dam, 0.15 mi downstream from bridge on State Highway 67 in Stillwater, and 0.75 mi upstream from Hoosic River. Water-quality sampling site at bridge on State Highway 67, 0.15 mi upstream from discharge station.

DRAINAGE AREA.--3,773 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--1932-33 and 1966-67 (discharge measurements only), March 1977 to current year. Daily discharge records prior to October 1981 are published with suspended-sediment data.

GAGE.--There is no gage due to construction of powerplant at station. Discharge is estimated based on records for Hudson River at Fort Edward (01327750) and Batten Kill at Battenville (01329500). Prior to October 1992, water-stage recorder and crest-stage gage at datum of 78.99 ft above sea level. Prior to January 1978, nonrecording gages in upper pool of Champlain (Barge) Canal lock 4, at Barge Canal datum.

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

AVERAGE DISCHARGE.--19 years, 6,553 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44,600 ft³/s, May 4, 1983, gage height, 8.69 ft; minimum daily, 900 ft³/s, July 25, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, about 35,000 ft³/s, May 13; minimum daily, about 1,900 ft³/s, Oct. 4.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e2500	e9500	e9500	e4800	e10400	e8300	e7100	e28000	e6000	e4100	e4100	e3900
2	e3000	e9200	e9600	e4700	e10000	e8100	e7000	e29000	e5200	e3800	e4600	e3400
3	e2000	e9700	e9100	e4600	e11600	e7700	e7700	e27000	e5300	e3100	e4700	e3500
4	e1900	e11200	e9000	e4600	e11300	e6900	e7100	e25000	e5100	e5400	e4600	e4100
5	e2600	e11300	e9000	e4600	e11000	e7200	e5900	e24400	e5400	e5200	e4600	e3100
6	e4000	e10600	e9000	e4500	e10200	e7600	e5400	e22700	e5000	e6200	e4300	e4100
7	e3600	e9600	e8700	e5100	e9800	e7200	e5300	e20100	e4900	e6100	e4500	e3100
8	e4600	e9700	e8100	e5200	e9200	e6500	e5300	e17600	e6900	e5700	e3900	e3300
9	e3200	e10200	e7500	e5600	e9500	e6900	e5500	e15700	e8900	e5100	e4400	e4700
10	e3000	e10000	e7000	e5200	e9100	e7100	e5500	e15100	e10200	e3900	e3200	e4600
11	e2700	e9600	e7200	e5500	e9200	e7100	e5200	e19000	e11300	e4300	e4000	e3900
12	e2400	e13700	e7100	e5000	e8900	e7000	e5400	e30000	e10200	e3900	e3800	e4100
13	e2500	e22000	e6800	e5100	e8100	e6500	e5700	e35000	e10000	e4800	e3600	e2900
14	e2800	e17700	e7200	e5100	e7500	e6200	e7000	e30000	e10200	e6500	e4300	e2800
15	e3400	e17400	e6800	e5200	e7500	e6500	e8200	e27200	e9300	e8000	e3700	e3300
16	e5300	e16000	e6300	e4900	e7600	e7200	e12100	e23200	e9800	e9000	e3200	e4300
17	e5600	e14200	e6500	e5000	e7200	e7300	e27000	e20600	e9600	e9200	e4400	e3300
18	e4900	e12500	e6600	e5100	e7000	e7300	e19600	e18600	e9300	e8800	e4000	e4400
19	e4800	e12800	e6800	e7700	e6900	e7400	e16800	e18200	e7600	e7900	e4000	e3100
20	e4400	e12300	e5900	e26000	e6800	e7400	e14900	e20200	e7500	e7400	e4100	e3900
21	e4900	e11400	e5400	e24000	e7900	e8000	e16000	e19000	e6700	e7000	e4200	e3900
22	e17000	e11100	e5300	e20000	e9600	e7900	e23000	e16800	e6600	e6800	e4100	e3800
23	e23000	e11100	e4700	e13800	e9500	e7400	e28000	e14200	e6300	e6200	e4100	e3800
24	e17400	e11300	e5000	e13000	e9700	e7500	e33000	e14900	e6300	e5000	e3600	e4000
25	e13000	e10900	e4800	e15000	e11500	e7200	e32000	e12400	e6600	e4600	e4000	e4400
26	e9500	e10500	e5000	e14000	e10000	e7200	e28000	e11500	e5800	e4000	e3800	e4000
27	e8400	e10400	e5200	e13000	e9200	e8100	e26000	e10100	e4800	e6000	e3200	e4100
28	e8900	e10200	e5000	e17000	e8100	e7700	e25000	e9300	e4900	e5700	e4100	e4300
29	e11500	e10400	e4900	e16000	e8300	e7500	e24000	e8200	e4200	e5000	e3900	e5300
30	e9500	e10000	e4900	e14000	---	e7300	e26000	e7000	e3900	e4000	e3800	e4700
31	e9600	---	e4400	e12000	---	e6700	---	e6800	---	e4500	e3700	---
TOTAL	201900	356500	208300	295300	262600	225900	444700	596800	213800	177200	124500	116100
MEAN	6513	11880	6719	9526	9055	7287	14820	19250	7127	5716	4016	3870
MAX	23000	22000	9600	26000	11600	8300	33000	35000	11300	9200	4700	5300
MIN	1900	9200	4400	4500	6800	6200	5200	6800	3900	3100	3200	2800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1996, BY WATER YEAR (WY)

	5534	7188	7037	6509	6528	8341	12780	9385	5059	3479	3514	3843
MEAN												
MAX	12060	11880	12570	11300	11750	14620	21760	19960	8380	5716	5919	6311
(WY)	1978	1996	1984	1978	1981	1979	1993	1983	1984	1996	1986	1987
MIN	2965	3630	3945	3035	2752	4735	3987	2790	2380	2042	2245	2523
(WY)	1981	1981	1981	1981	1980	1989	1995	1995	1995	1995	1995	1995

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1977 - 1996	
ANNUAL TOTAL	1854600		3223600			
ANNUAL MEAN	5081		8808		6552	
HIGHEST ANNUAL MEAN					8808	1996
LOWEST ANNUAL MEAN					4344	1995
HIGHEST DAILY MEAN	23000	Oct 23	35000	May 13	44100	May 4 1983
LOWEST DAILY MEAN	1300	Jul 15	1900	Oct 4	900	Jul 25 1983
ANNUAL SEVEN-DAY MINIMUM	1390	Aug 23	2800	Oct 1	1390	Aug 23 1995
10 PERCENT EXCEEDS	10400		17500		12100	
50 PERCENT EXCEEDS	4000		7000		5100	
90 PERCENT EXCEEDS	1960		3800		2800	

e Estimated

HUDSON RIVER BASIN

51

01331095 HUDSON RIVER AT STILLWATER, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969 to 1975, 1977 to current year.

CHEMICAL DATA: 1969 (c), 1970-74 (d), 1975 (c), 1980 (b), 1981 (c), 1982-85 (e), 1986-88 (d), 1996 (a).

MINOR ELEMENTS DATA: 1972 (b), 1973-75 (a), 1977-79 (e), 1980 (c).

PESTICIDE DATA: 1977-79 (e), 1980, 1996 (a).

ORGANIC DATA: OC--1974 (a), 1975 (c).

PCB--1977-85 (e), 1986-88 (d), 1989 (e), 1991 (d), 1992-94 (e), 1995 (d), 1996 (e).

PCN--1977-79 (e), 1980 (a).

NUTRIENT DATA: 1969 (c), 1970-74 (d), 1975 (c), 1977-78 (e).

SEDIMENT DATA: 1977 (d), 1978 (a), 1981-96 (e).

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: March 1977 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD (Water years 1977-96).--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 280 mg/L, Mar. 30, 1993; minimum daily mean, <1 mg/L on several days during the 1991 water year, Oct. 31, 1991, Aug. 26, 1993, Aug. 11, 1994, July 22, Aug. 22, 1995.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, about 17,400 tons, Mar. 30, 1993; minimum daily, 3.5 tons, Aug. 24, Sept. 2, 1995.

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

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)
JUN 27...	1520	e4800	106	6.9	28.5	22.0	760
DATE	TIME	OXYGEN, DIS- SOLVED (MG/L) (00300)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA- ZINE, WATER, DISS, REC, (UG/L) (39632)	CYANA- ZINE, WATER, DISS, REC, (UG/L) (04041)	DEETHYL ATRA- ZINE, WATER, DISS, REC, (UG/L) (04040)	
JUN 27...	7.4	85	E0.004	0.015	0.007	E0.003	
DATE	TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND (00060)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	AROCLOR 1254 PCB TOTAL (UG/L) (39504)	AROCLOR 1242 PCB TOTAL (UG/L) (39496)	
OCT 03...	1150	e2000	2	11	0.01	0.02	
19...	1300	e4800	3	39	<0.01	<0.02	
22...	1530	e17000	109	5000	0.03	0.04	
23...	1135	e23000	102	6330	0.06	0.08	
26...	1225	e9500	5	128	0.01	0.02	
NOV 13...	1325	e22000	46	2730	0.02	0.02	
JAN 21...	1550	e24000	48	3110	0.01	0.02	
31...	1400	e12000	4	130	<0.01	<0.02	
FEB 22...	1300	e9600	18	467	0.01	0.03	
MAR 15...	1310	e6500	4	70	<0.01	0.02	
APR 05...	1110	e5900	1	16	<0.01	0.02	
11...	1137	e5200	2	28	<0.01	<0.02	
18...	1155	e19600	33	1750	0.01	0.02	
25...	1130	e32000	57	4920	0.02	0.04	
MAY 01...	1206	e28000	37	2900	0.01	0.02	
02...	1148	e29000	25	1960	0.01	0.02	
09...	1053	e15700	6	254	<0.01	0.02	
14...	1148	e30000	23	1860	0.01	0.03	
16...	1146	e20600	8	445	0.01	0.02	
23...	1204	e14200	6	230	0.01	0.03	
JUN 21...	1112	e6700	8	145	0.01	0.03	

e Estimated daily.

E Estimate.

HUDSON RIVER BASIN

01331095 HUDSON RIVER AT STILLWATER, NY--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)
OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	3	20	6	154	e6	154	e2	26	3	84	5	112
2	2	16	4	99	e4	104	e2	25	2	54	8	175
3	2	11	e6	157	e4	98	e2	25	3	94	e3	62
4	2	10	13	393	7	170	e2	25	e3	92	e3	56
5	1	7.0	4	122	e4	97	e2	25	e3	89	e3	58
6	2	22	7	200	e4	97	e2	24	e2	55	e3	62
7	4	39	4	104	e4	94	e3	41	e2	53	e3	58
8	2	25	e4	105	e3	66	e4	56	e2	50	e3	53
9	1	8.6	e4	110	e3	61	e5	76	2	51	e3	56
10	2	16	e4	108	e2	38	e5	70	2	49	e3	58
11	2	15	5	130	e2	39	e5	74	2	50	e2	38
12	2	13	54	2000	e2	38	e5	67	e2	48	e2	38
13	e2	13	56	3330	1	18	e5	69	e2	44	2	35
14	2	15	18	860	2	39	e5	69	e2	40	4	67
15	4	37	15	705	e2	37	e5	70	e2	40	6	105
16	13	186	10	432	e2	34	e5	66	e2	41	16	311
17	12	181	4	153	e2	35	8	108	e2	39	20	394
18	5	66	5	169	e2	36	6	83	e2	38	14	276
19	2	26	e5	173	e2	37	101	2100	2	37	11	220
20	3	36	e5	166	e2	32	169	11900	e2	37	8	160
21	6	79	5	154	e2	29	65	4210	12	256	7	151
22	80	3670	2	60	e2	29	26	1400	27	700	8	171
23	100	6210	4	120	e2	25	12	447	34	872	e4	80
24	35	1640	6	183	e2	27	5	175	21	550	1	20
25	12	421	7	206	e2	26	74	3000	33	1020	e2	39
26	10	256	3	85	e2	27	23	869	16	432	e2	39
27	7	159	2	56	e2	28	44	1540	7	174	3	66
28	13	312	5	138	e2	27	235	10800	3	66	3	62
29	46	1430	e5	140	e4	53	76	3280	1	22	4	81
30	21	539	e4	108	e2	26	8	302	---	---	e3	59
31	8	207	---	---	e2	24	4	130	---	---	1	18
DAY	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	10	92	40	020	8	130	9	100	1	11	3	32
2	14	265	25	1960	6	84	10	103	7	87	1	9.2
3	7	146	14	1020	4	57	15	126	7	89	3	28
4	3	58	10	675	4	55	9	131	4	50	5	55
5	e2	32	10	659	6	87	e5	70	1	12	e4	33
6	e3	44	11	674	4	54	e5	84	e3	35	e3	33
7	5	72	6	326	e4	53	e5	82	e3	36	3	25
8	3	43	4	190	e3	56	e5	77	e3	32	e2	18
9	3	45	1	42	3	72	e5	69	e3	36	1	13
10	5	74	5	204	9	248	9	95	e3	26	3	37
11	10	140	10	513	9	275	5	58	e3	32	3	32
12	19	277	87	7050	14	386	5	53	e3	31	4	44
13	17	262	79	7470	26	702	73	946	2	19	2	16
14	22	416	29	2350	28	771	99	1740	3	35	e2	15
15	5	111	9	661	16	402	30	648	6	60	e1	8.9
16	41	1340	8	501	11	291	55	1340	e4	35	1	12
17	76	5540	6	334	12	311	30	745	e3	36	1	8.9
18	25	1320	10	502	13	326	10	238	3	32	6	71
19	13	590	5	246	12	246	10	213	2	22	3	25
20	6	241	5	273	7	142	9	180	4	44	e3	32
21	8	346	8	410	6	109	7	132	3	34	3	32
22	15	931	8	363	4	71	4	73	e3	33	5	51
23	60	4540	10	383	9	153	8	134	e2	22	17	174
24	99	8820	6	241	7	119	4	54	2	19	2	22
25	62	5360	8	268	5	89	4	50	1	11	7	83
26	24	1810	10	310	5	78	4	43	e2	21	5	54
27	13	913	12	327	4	52	8	130	e3	26	e4	44
28	13	877	5	126	e5	66	10	154	4	44	7	81
29	9	583	5	111	13	147	5	67	1	11	26	372
30	17	1190	8	151	8	84	5	54	1	10	14	178
31	---	---	e10	184	---	---	8	97	3	30	---	---

e Estimated daily.

HUDSON RIVER BASIN

53

01332500 HOOSIC RIVER NEAR WILLIAMSTOWN, MA

LOCATION.--Lat 42°42'01", long 73°09'34", Berkshire County, Hydrologic Unit 02020003, on left bank 0.3 mi downstream from Sherman Brook, 2.7 mi east of junction of U.S. Highway 7 and State Highway 2, in Williamstown.

DRAINAGE AREA.--126 mi².

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

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 616.11 ft above sea level (U.S. Army Corps of Engineers benchmark). Prior to June 6, 1979, at site 1.2 mi downstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Prior to 1966, slight diurnal fluctuation at low flow caused by mills upstream. Some regulation by Cheshire Reservoir 16 mi upstream. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--56 years, 273 ft³/s, 29.44 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,000 ft³/s, Dec. 31, 1948, gage height, 14.85 ft, former site and datum, from rating curve extended above 4,300 ft³/s on basis of contracted-opening measurement of peak flow; minimum discharge, 5.8 ft³/s, Aug. 30, 31, Oct. 26, 1940; minimum daily, 24 ft³/s, Sept. 9, 1980.

EXTREMES 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)
Oct. 21	2245	3,930	9.15	Apr. 23	0230	2,980	8.50
Nov. 12	0730	2,820	8.38	Apr. 24	0315	2,770	8.35
Jan. 19	2215	*5,730	*10.25	May 1	0300	2,560	8.19
Jan. 27	1945	3,250	8.69	May 11	2315	3,010	8.52
Apr. 16	2330	3,380	8.78	July 13	1930	2,630	8.24

Minimum discharge, 45 ft³/s, Oct. 1, 2, 3, 4; minimum daily, 47 ft³/s, Oct. 1-3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	260	188	111	349	329	398	1830	170	116	159	62
2	47	491	190	112	e310	302	648	962	153	94	222	61
3	47	551	168	e110	e260	286	505	756	162	193	256	60
4	63	450	209	e110	e240	247	415	910	258	411	242	59
5	94	335	186	e110	e225	245	371	922	194	295	156	59
6	566	279	179	e110	e210	291	358	860	165	183	133	58
7	282	247	162	e105	e200	252	368	764	149	187	126	55
8	162	377	147	e105	e190	235	357	601	418	134	115	56
9	128	276	136	e105	e180	215	328	514	987	126	130	66
10	97	227	142	e105	e170	209	332	581	431	125	121	66
11	87	224	138	e105	e165	202	343	1150	327	105	104	60
12	82	1680	e130	e100	e160	205	539	2300	252	95	94	58
13	77	756	e125	e100	e155	220	601	1240	222	1090	91	56
14	83	588	e120	e100	e150	251	1290	827	251	1330	87	67
15	351	873	e125	e100	e145	332	896	656	205	467	82	62
16	207	596	e130	e110	e145	334	1950	614	174	593	79	60
17	153	427	131	e170	e140	275	2090	686	145	336	81	73
18	128	362	131	220	e140	280	1060	582	170	247	75	414
19	116	342	130	2070	e140	310	911	569	142	225	72	231
20	106	326	134	2330	156	498	1160	457	183	259	69	127
21	1170	317	e130	802	552	418	1430	413	264	201	78	103
22	1860	293	e130	544	1130	347	1160	414	179	166	75	114
23	567	260	e125	426	931	296	2090	370	159	134	70	455
24	361	235	120	840	994	270	1960	350	138	133	71	205
25	295	209	116	1150	779	318	1010	306	137	124	68	179
26	249	201	118	578	546	531	1040	242	124	162	66	147
27	212	179	117	1430	454	459	1480	209	114	150	63	125
28	1010	201	116	1680	506	355	835	190	105	128	80	125
29	687	223	113	721	458	332	1060	185	99	118	70	368
30	396	181	111	582	---	328	1460	180	110	139	66	205
31	308	---	111	451	---	343	---	181	---	122	64	---
TOTAL	10038	11966	4308	15692	10180	9515	28445	20821	6587	8188	3265	3836
MEAN	324	399	139	506	351	307	948	672	220	264	105	128
MAX	1860	1680	209	2330	1130	531	2090	2300	987	1330	256	455
MIN	47	179	111	100	140	202	328	180	99	94	63	55
CFSM	2.57	3.17	1.10	4.02	2.79	2.44	7.53	5.33	1.74	2.10	.84	1.01
IN.	2.96	3.53	1.27	4.63	3.01	2.81	8.40	6.15	1.94	2.42	.96	1.13

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

	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951
MEAN	172	260	271	246	243	444	683	375	213	134	116	122
MAX	618	544	714	591	765	1038	1178	872	636	393	416	454
(WY)	1978	1956	1974	1949	1981	1979	1969	1943	1972	1945	1976	1960
MIN	41.0	46.5	118	60.8	75.3	139	253	144	81.0	60.4	48.2	34.5
(WY)	1965	1965	1962	1981	1980	1965	1995	1987	1965	1962	1980	1980

e Estimated

HUDSON RIVER BASIN

01332500 HOOSIC RIVER NEAR WILLIAMSTOWN, MA--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1940 - 1996	
ANNUAL TOTAL	80190		132841			
ANNUAL MEAN	220		363		273	
HIGHEST ANNUAL MEAN					368	1975
LOWEST ANNUAL MEAN					135	1965
HIGHEST DAILY MEAN	1860	Oct 22	2330	Jan 20	10400	Dec 31 1948
LOWEST DAILY MEAN	40	Aug 25	47	Oct 1	24	Sep 9 1980
ANNUAL SEVEN-DAY MINIMUM	41	Aug 24	58	Sep 2	25	Sep 9 1980
INSTANTANEOUS PEAK FLOW			5730	Jan 19	13000	Dec 31 1948
INSTANTANEOUS PEAK STAGE			10.25	Jan 19	14.85	Dec 31 1948
INSTANTANEOUS LOW FLOW			45	Oct 1	5.8	Aug 30 1940
ANNUAL RUNOFF (CFSM)	1.74		2.88		2.17	
ANNUAL RUNOFF (INCHES)	23.68		39.22		29.44	
10 PERCENT EXCEEDS	479		910		582	
50 PERCENT EXCEEDS	153		206		165	
90 PERCENT EXCEEDS	51		80		67	

HUDSON RIVER BASIN

55

01333000 GREEN RIVER AT WILLIAMSTOWN, MA

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

DRAINAGE AREA.--42.6 mi².

PERIOD OF RECORD.--Discharge: September 1949 to current year.

Water-quality records: Water years 1967-69.

REVISED RECORDS.--WDR MA-RI-84-1: 1977-78(P), 1979, 1980-83(P).

GAGE.--Water-stage recorder. Elevation of gage is 615 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Slight diurnal fluctuation at times caused by mill upstream.

AVERAGE DISCHARGE.--47 years, 82.4 ft³/s, 26.28 in/yr.

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 850 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 21	2015	990	3.84	Apr. 23	0115	1,260	4.16
Nov. 12	0545	998	3.85	Apr. 24	0200	943	3.78
Jan. 20	0400	1,240	4.14	Apr. 26	2030	1,070	3.94
Jan. 24	2100	897	3.72	May 1	0100	1,160	4.04
Jan. 27	2100	1,350	4.27	May 11	2045	1,340	4.25
Apr. 16	1930	943	3.78	July 13	1900	*1,650	*4.59

Minimum discharge, 6.6 ft³/s, Oct. 3, 4.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	101	77	39	144	126	96	586	54	37	56	13
2	6.9	137	75	38	e110	116	136	348	51	33	74	13
3	6.9	143	69	e37	e90	106	116	277	56	61	51	12
4	12	132	84	e36	e74	92	105	320	72	136	50	12
5	18	113	73	e35	e66	99	97	288	56	116	41	12
6	139	100	71	e34	e64	119	91	314	49	76	36	12
7	51	100	65	e33	e60	92	93	265	46	63	32	12
8	34	137	59	e32	e58	86	95	226	103	57	30	13
9	27	106	e56	e31	e56	79	89	195	223	61	41	15
10	24	94	e54	e30	e54	e76	91	193	118	63	33	14
11	22	90	e52	e30	e52	e74	94	436	101	50	28	13
12	20	412	e50	e30	e50	e74	115	631	86	45	26	12
13	18	254	e48	e29	e48	80	132	415	78	671	25	11
14	20	234	e47	e29	e47	85	306	302	71	480	23	17
15	73	288	e45	e30	e46	111	226	246	63	269	22	13
16	46	218	e45	e31	e45	108	474	230	57	330	21	12
17	37	185	e44	e40	e44	101	507	219	53	207	23	16
18	32	164	e43	e66	e44	111	342	199	49	155	20	116
19	28	161	e43	e400	e45	125	287	191	47	137	19	41
20	26	144	44	783	82	168	300	162	66	123	18	25
21	246	133	44	352	189	142	317	145	84	99	22	21
22	297	122	46	260	307	124	292	128	59	82	18	28
23	155	110	45	212	253	109	577	112	53	73	17	136
24	115	98	44	413	278	99	564	103	48	66	18	55
25	93	86	42	356	234	107	345	91	46	59	17	48
26	77	82	42	235	199	137	419	84	42	62	16	38
27	69	78	41	641	179	123	464	77	40	55	15	33
28	215	79	40	487	179	111	309	71	38	48	15	34
29	171	81	39	304	147	106	384	66	36	43	14	143
30	135	73	39	238	---	98	437	63	38	41	14	71
31	115	---	39	187	---	94	---	59	---	40	13	---
TOTAL	2336.0	4255	1605	5498	3244	3278	7900	7042	1983	3838	848	1011
MEAN	75.4	142	51.8	177	112	106	263	227	66.1	124	27.4	33.7
MAX	297	412	84	783	307	168	577	631	223	671	74	143
MIN	6.9	73	39	29	44	74	89	59	36	33	13	11
CFSM	1.77	3.33	1.22	4.16	2.63	2.48	6.18	5.33	1.55	2.91	.64	.79
IN.	2.04	3.72	1.40	4.80	2.83	2.86	6.90	6.15	1.73	3.35	.74	.88

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1996, BY WATER YEAR (WY)

	MEAN	45.5	78.3	92.2	80.0	81.6	143	208	112	61.4	32.1	26.8	28.3
MAX	222	171	259	219	239	376	390	251	256	124	147	158	
(WY)	1978	1956	1974	1979	1984	1979	1969	1984	1972	1996	1975	1960	
MIN	5.33	6.71	24.8	11.0	14.6	33.6	70.5	32.4	18.2	8.30	5.61	4.09	
(WY)	1965	1965	1965	1981	1980	1965	1995	1987	1965	1993	1964	1964	

e Estimated

HUDSON RIVER BASIN

01333000 GREEN RIVER AT WILLIAMSTOWN, MA--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1949 - 1996
ANNUAL TOTAL	24209.8	42838.0	
ANNUAL MEAN	66.3	117	82.4
HIGHEST ANNUAL MEAN			126
LOWEST ANNUAL MEAN			31.7
HIGHEST DAILY MEAN	476 Mar 9	783 Jan 20	2200 Dec 21 1973
LOWEST DAILY MEAN	5.4 Sep 8	6.9 Oct 2	3.2 Sep 20 1964
ANNUAL SEVEN-DAY MINIMUM	6.1 Sep 3	12 Sep 1	3.4 Sep 19 1964
INSTANTANEOUS PEAK FLOW		1650 Jul 13	4060 Dec 21 1973
INSTANTANEOUS PEAK STAGE		4.59 Jul 13	6.35 Mar 13 1977
INSTANTANEOUS LOW FLOW		6.6 Oct 3	3.1 Sep 20 1964
ANNUAL RUNOFF (CFSM)	1.56	2.75	1.93
ANNUAL RUNOFF (INCHES)	21.14	37.41	26.28
10 PERCENT EXCEEDS	160	293	185
50 PERCENT EXCEEDS	45	73	48
90 PERCENT EXCEEDS	9.6	20	11

HUDSON RIVER BASIN

57

01333500 LITTLE HOOSIC RIVER AT PETERSBURG, NY

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

DRAINAGE AREA.--56.1 mi².

PERIOD OF RECORD.--July 1951 to September 1996 (discontinued).

REVISED RECORDS.--WSP 1702: 1959.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 587.40 ft above sea level.

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

AVERAGE DISCHARGE.--45 years, 95.0 ft³/s, 23.00 in/yr.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 31, 1948, reached a stage of 9.4 ft, from floodmarks, discharge, 7,470 ft³/s, from contracted-opening measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,250 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 12	0545	2,050	6.03	May 11	2145	1,910	5.86
Jan. 19	a2000	a*4,400	b*8.77	July 13	2000	2,040	6.01
Jan. 27	a1800	a1,600	unknown				

a About.

b From crest-stage gage; recorder malfunctioned, questionable gage-height record.

Minimum discharge, 5.9 ft³/s, Oct. 1, 2, 3, 4, gage height, 1.08 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	115	82	e34	e200	139	103	796	52	24	40	13
2	6.2	139	80	e33	e160	128	143	527	47	22	38	13
3	5.9	151	75	e33	e130	114	124	394	50	76	34	12
4	8.0	148	90	e33	e110	99	111	365	80	308	32	12
5	11	128	80	e32	e100	99	104	365	57	205	29	12
6	57	114	78	e32	e90	114	98	370	47	119	26	12
7	31	115	70	e30	e88	91	97	347	42	89	25	12
8	22	161	61	e30	e84	89	100	282	96	75	23	13
9	17	125	57	e29	e80	e80	96	237	202	70	39	14
10	15	110	e60	e28	e75	e76	97	214	111	71	33	13
11	14	103	e60	e28	e70	e72	100	520	94	56	26	13
12	13	876	e58	e28	e67	e70	113	1040	79	47	23	12
13	12	432	e57	e35	e65	79	126	719	70	799	22	12
14	13	353	e70	e30	e63	97	368	501	64	771	20	16
15	65	455	e60	e30	e60	138	293	384	56	515	19	14
16	41	310	e50	94	e58	130	526	331	49	492	19	13
17	32	247	e48	158	e57	121	686	296	45	285	21	14
18	27	210	e46	e250	e56	128	481	262	41	199	18	96
19	24	216	e45	e1850	57	134	384	258	38	172	17	48
20	22	183	e42	e1300	61	164	327	206	42	159	16	27
21	213	164	e41	e600	264	173	300	180	64	117	19	21
22	328	147	e40	e400	438	151	263	158	47	95	17	22
23	169	131	e38	e300	378	131	556	133	41	82	16	123
24	121	117	e38	e600	408	118	789	122	36	74	16	60
25	101	104	e37	e550	330	128	470	104	34	67	15	48
26	81	97	e36	e350	257	164	477	92	30	79	15	38
27	69	91	e35	e700	214	145	508	82	28	72	15	32
28	278	88	e35	e650	216	129	350	74	26	58	16	35
29	209	86	e34	e430	167	123	340	67	24	49	15	234
30	160	80	e34	e350	---	113	451	62	25	45	14	108
31	134	---	e34	e260	---	106	---	59	---	41	13	---
TOTAL	2305.3	5796	1671	9307	4403	3643	8981	9547	1717	5333	691	1112
MEAN	74.4	193	53.9	300	152	118	299	308	57.2	172	22.3	37.1
MAX	328	876	90	1850	438	173	789	1040	202	799	40	234
MIN	5.9	80	34	28	56	70	96	59	24	22	13	12
CFSM	1.33	3.44	.96	5.35	2.71	2.09	5.34	5.49	1.02	3.07	.40	.66
IN.	1.53	3.84	1.11	6.17	2.92	2.42	5.96	6.33	1.14	3.54	.46	.74

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1996, BY WATER YEAR (WY)

MEAN	48.6	95.9	112	98.8	105	181	233	126	59.5	31.8	27.8	25.2
MAX	234	226	262	300	290	504	448	319	265	172	179	237
(WY)	1978	1987	1974	1996	1984	1977	1956	1984	1972	1996	1976	1960
MIN	3.87	4.43	19.1	12.0	17.3	45.1	88.5	29.2	13.1	5.86	3.81	2.85
(WY)	1965	1965	1965	1981	1980	1965	1995	1987	1964	1964	1964	1964

e Estimated

HUDSON RIVER BASIN

01333500 LITTLE HOOSIC RIVER AT PETERSBURG, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1951 - 1996	
ANNUAL TOTAL	28535.8		54506.3			
ANNUAL MEAN	78.2		149		95.1	
HIGHEST ANNUAL MEAN					149 1996	
LOWEST ANNUAL MEAN					37.6 1965	
HIGHEST DAILY MEAN	876	Nov 12	1850	Jan 19	3090	Mar 14 1977
LOWEST DAILY MEAN	5.1	Sep 16	5.9	Oct 3	2.2	Sep 11 1964
ANNUAL SEVEN-DAY MINIMUM	5.7	Sep 10	12	Sep 1	2.3	Sep 9 1964
ANNUAL RUNOFF (CFSM)	1.39		2.65		1.69	
ANNUAL RUNOFF (INCHES)	18.92		36.14		23.03	
10 PERCENT EXCEEDS	189		380		223	
50 PERCENT EXCEEDS	46		80		52	
90 PERCENT EXCEEDS	7.2		16		8.1	

HUDSON RIVER BASIN

59

01334000 WALLOOMSAC RIVER NEAR NORTH BENNINGTON, VT

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

DRAINAGE AREA.--111 mi².

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

Water-quality records: Water years 1953-54.

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

GAGE.--Water-stage recorder. Elevation of gage is 525 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Occasional diurnal fluctuation at low flow caused by mills upstream; diurnal fluctuation greater prior to 1960.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 21	2215	4,030	7.97	Apr. 24	0215	4,550	8.51
Nov. 12	0815	2,180	5.86	Apr. 26	2300	3,360	7.24
Jan. 19	unknown	*5,960	*9.87	May 1	0230	3,790	7.72
Jan. 27	2000	2,220	5.90	May 11	2215	5,640	9.57
Apr. 16	2300	2,010	5.64				

Minimum daily discharge, 35 ft³/s, Oct. 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	213	151	80	284	269	242	2210	170	95	158	46
2	36	287	148	80	273	252	341	905	157	82	168	46
3	35	352	134	e79	240	237	290	678	162	128	129	44
4	59	301	157	e78	e205	208	255	657	272	471	121	43
5	72	231	144	e77	e200	211	239	597	213	481	103	47
6	313	199	137	e77	e188	233	237	562	168	219	94	44
7	178	192	124	e74	e177	204	235	514	156	157	95	43
8	106	338	108	e73	e170	e177	234	426	284	128	85	44
9	79	242	e99	e72	e163	e170	242	379	450	114	98	64
10	67	195	e100	e72	e157	e165	236	425	283	116	102	65
11	63	178	e99	e71	e152	e162	247	1680	224	102	87	56
12	58	1150	e94	e69	e148	e170	320	2980	185	91	79	51
13	54	521	e90	e69	e142	185	333	1290	250	789	75	49
14	60	393	e86	e69	e140	206	568	817	261	730	71	61
15	378	449	e89	e70	e135	250	463	648	194	431	67	54
16	188	371	e96	e96	e134	241	966	557	160	735	65	49
17	124	300	101	e128	e131	210	1200	534	144	419	64	55
18	102	261	97	e181	131	206	648	472	130	283	62	183
19	90	259	94	e2650	e130	220	609	437	122	257	61	127
20	83	236	e95	e2290	151	273	934	385	139	285	56	79
21	1010	222	e93	e688	385	264	1490	353	138	222	68	64
22	1280	209	e91	e444	668	238	1180	335	131	179	62	67
23	391	192	88	347	563	209	2330	304	123	158	58	195
24	257	173	86	521	734	195	2380	308	110	147	60	115
25	229	154	86	716	599	219	864	267	108	134	57	89
26	186	154	86	402	406	349	1170	242	99	211	51	78
27	157	148	84	918	343	286	1570	223	91	181	54	68
28	808	172	83	1040	355	236	740	208	89	156	52	79
29	516	191	81	524	329	222	772	199	84	149	50	320
30	308	147	80	436	---	218	1100	194	91	172	49	153
31	239	---	80	350	---	221	---	186	---	134	47	---
TOTAL	7563	8430	3181	12841	7833	6906	22435	19972	5188	7956	2448	2478
MEAN	244	281	103	414	270	223	748	644	173	257	79.0	82.6
MAX	1280	1150	157	2650	734	349	2380	2980	450	789	168	320
MIN	35	147	80	69	130	162	234	186	84	82	47	43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1996, BY WATER YEAR (WY)

	MEAN	150	212	211	192	181	320	542	328	176	122	104	116
MAX	418	412	471	425	575	958	1008	742	414	311	481	585	
(WY)	1976	1960	1974	1937	1981	1936	1969	1943	1972	1935	1976	1938	
MIN	30.9	39.6	94.6	61.6	54.2	68.0	215	116	53.1	39.8	41.2	25.6	
(WY)	1965	1965	1948	1965	1980	1965	1946	1987	1964	1964	1964	1964	

e Estimated

HUDSON RIVER BASIN

01334000 WALLOOMSAC RIVER NEAR NORTH BENNINGTON, VT--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1931 - 1996	
ANNUAL TOTAL	59638		107231			
ANNUAL MEAN	163		293		221	
HIGHEST ANNUAL MEAN					362	1976
LOWEST ANNUAL MEAN					98.9	1965
HIGHEST DAILY MEAN	1280	Oct 22	2980	May 12	6350	Dec 31 1948
LOWEST DAILY MEAN	26	Sep 7	35	Oct 3	a 21	Sep 22 1964
ANNUAL SEVEN-DAY MINIMUM	28	Sep 2	44	Sep 2	22	Sep 20 1964
INSTANTANEOUS PEAK FLOW			b 5960	Jan 19	b 8450	Sep 21 1938
INSTANTANEOUS PEAK STAGE			c 9.87	Jan 19	12.04	Sep 21 1938
INSTANTANEOUS LOW FLOW			d 34	Oct 2	4.0	Sep 27 1932
10 PERCENT EXCEEDS	338		651		460	
50 PERCENT EXCEEDS	115		177		141	
90 PERCENT EXCEEDS	38		64		57	

a Also occurred on Sept. 23, 1964 and July 12, 1965.

b From rating curve extended above 2,800 ft³/s on basis of contracted-opening measurements at gage heights 10.13 ft, 10.49 ft, 11.50 ft, and 12.04 ft and slope area measurement and computation of flow over dam at gage height 12.04 ft.

c From peak-stage indicator.

d Also occurred Oct. 3, 4.

HUDSON RIVER BASIN

61

01334500 HOOSIC RIVER NEAR EAGLE BRIDGE, NY
(National water-quality assessment program station)

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

DRAINAGE AREA.--510 mi².

WATER-DISCHARGE RECORDS

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

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

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

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

AVERAGE DISCHARGE.--84 years (water years 1911-21, 1924-96), 951 ft³/s, 25.32 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,400 ft³/s, Dec. 31, 1948, gage height, 21.15 ft, from floodmark in gage house, from rating curve extended above 30,000 ft³/s on basis of peak flow over downstream dams and contracted-opening measurements at gage heights 17.8 ft and 21.15 ft; minimum discharge, 24 ft³/s, Sept. 14, 1913; minimum daily, 30 ft³/s, Sept. 14, 1913.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 22	0315	10,600	10.16	Apr. 24	0615	10,900	10.79
Nov. 12	1200	9,760	9.81	Apr. 27	0230	8,640	9.83
Jan. 20	0330	*20,900	*14.16	May 1	0530	11,600	11.08
Jan. 28	0045	10,600	10.67	May 12	0330	13,800	11.89
Apr. 17	0230	9,010	10.00	July 14	0045	9,120	10.05

Minimum discharge, 55 ft³/s, Sept. 7, 8; minimum daily, 120 ft³/s, Oct. 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	973	722	e360	1580	1330	1150	8670	701	349	481	133
2	123	1150	746	e350	1520	1250	1630	4620	632	296	688	137
3	120	1680	652	e340	1270	1170	1530	3530	592	380	515	128
4	141	1510	753	e330	1060	977	1300	3450	1030	1670	666	130
5	196	1150	731	e330	e950	1010	1180	3550	852	1660	479	126
6	976	974	685	e330	e880	1120	1120	3300	685	921	396	129
7	780	882	629	e340	e830	954	1110	3090	598	690	362	121
8	459	1390	561	e340	e800	822	1130	2490	990	552	335	125
9	334	1110	508	e330	e750	e800	1100	2170	2440	501	345	151
10	275	898	e500	e320	e730	e790	1080	2170	1610	501	425	167
11	235	826	e480	e320	e700	e820	1070	4410	1230	425	333	155
12	224	5970	e460	e310	e680	e830	1340	11300	997	368	286	134
13	205	3550	e450	e310	e650	e850	1570	6240	948	2390	269	132
14	207	2490	e440	e320	e630	914	3150	4120	988	5680	252	151
15	875	3260	e450	e320	e600	1230	2640	3270	839	2500	237	159
16	684	2580	e440	e310	e590	1320	4280	2770	698	3300	220	134
17	457	1930	e430	595	e570	1130	6990	2800	612	2030	229	145
18	369	1620	e430	1140	e560	1150	3960	2410	544	1420	214	606
19	322	1620	e420	8280	e550	1290	3250	2350	555	1190	195	774
20	301	1460	e410	13300	651	1690	3490	1970	558	1310	188	362
21	1200	1330	e420	4190	1780	1680	4370	1740	759	1010	205	261
22	6510	1220	e430	2850	3510	1450	3770	1740	625	806	207	224
23	1960	1090	e420	2220	3220	1240	6850	1550	556	677	187	908
24	1200	980	e410	3040	3460	1100	7970	1460	501	632	183	680
25	960	864	e400	4980	3130	1120	4240	1280	463	565	181	452
26	783	840	e390	2630	2240	1680	3820	1120	e400	730	165	392
27	669	786	e390	4200	1860	1570	6210	995	357	748	159	324
28	2580	772	e380	6980	1850	1280	3620	900	334	598	174	292
29	2580	856	e370	3370	1730	1210	3560	845	311	515	170	1190
30	1500	734	e360	2700	---	1140	5200	792	309	579	150	835
31	1140	---	e360	2160	---	1120	---	763	---	492	145	---
TOTAL	28489	46495	15227	67895	39331	36037	93680	91865	22714	35485	9041	9657
MEAN	919	1550	491	2190	1356	1162	3123	2963	757	1145	292	322
MAX	6510	5970	753	13300	3510	1690	7970	11300	2440	5680	688	1190
MIN	120	734	360	310	550	790	1070	763	309	296	145	121
CFSM	1.80	3.04	.96	4.29	2.66	2.28	6.12	5.81	1.48	2.24	.57	.63
IN.	2.08	3.39	1.11	4.95	2.87	2.63	6.83	6.70	1.66	2.59	.66	.70

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 1996, BY WATER YEAR (WY)

	MEAN	525	896	973	940	922	1683	2340	1292	683	435	347	389
MAX	2238	3394	2449	3002	2546	4595	4247	3094	2362	1349	1893	2668	
(WY)	1978	1928	1974	1979	1984	1936	1993	1984	1972	1915	1976	1938	
MIN	83.7	111	149	135	233	406	875	358	195	142	113	95.7	
(WY)	1965	1965	1915	1931	1931	1965	1946	1987	1964	1962	1913	1964	

e Estimated

HUDSON RIVER BASIN

01334500 HOOSIC RIVER NEAR EAGLE BRIDGE, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1910 - 1996	
ANNUAL TOTAL	273999		495916			
ANNUAL MEAN	751		1355		951	
HIGHEST ANNUAL MEAN					1611	
LOWEST ANNUAL MEAN					378	
HIGHEST DAILY MEAN	6940	Mar 9	13300	Jan 20	39000	Dec 31 1948
LOWEST DAILY MEAN	97	Sep 7	120	Oct 3	30	Sep 14 1913
ANNUAL SEVEN-DAY MINIMUM	103	Sep 3	128	Sep 2	77	Oct 7 1964
ANNUAL RUNOFF (CFSM)	1.47		2.66		1.87	
ANNUAL RUNOFF (INCHES)	19.99		36.17		25.35	
10 PERCENT EXCEEDS	1640		3320		2130	
50 PERCENT EXCEEDS	486		800		560	
90 PERCENT EXCEEDS	135		207		174	

HUDSON RIVER BASIN

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01334500 HOOSIC RIVER NEAR EAGLE BRIDGE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970-71, 1973, April 1993 to September 1995 (discontinued).

CHEMICAL DATA: 1970-71, 1973 (a), 1993 (c), 1994 (d), 1995 (c).

MINOR ELEMENTS DATA: 1970 (a).

PESTICIDE DATA: 1993-94 (a).

ORGANIC DATA: OC--1993 (b), 1994 (d), 1995 (c).

PCB--1993 (a).

PCN--1993 (a).

NUTRIENT DATA: 1970-71, 1973 (a), 1993 (b), 1994 (a), 1995 (c).

BIOLOGICAL DATA:

Bacteria--1993 (a).

Phytoplankton--1993 (a).

SEDIMENT DATA: 1993 (b), 1994 (d), 1995 (c).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: April 1993 to September 1995.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 29.5°C, July 7, 8, 10, 1993, July 15, 1995; minimum (water years 1994-95), 0.0°C on many days during winter periods.

REVISIONS.--The pesticide data published in the 1994 annual data report (WDR NY-94-1) are republished here because many of the method detection limits were revised after reevaluation of method performance. Revised method detection limits are listed after the NAWQA section Introduction.

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA- ZINE, WATER, DISS, REC, (UG/L) (39632)	CYANA- ZINE, WATER, DISS, REC, (UG/L) (04041)	DEETHYL ATRA- ZINE, WATER, DISS, REC, (UG/L) (04040)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)
JUN 09...	1010	0.022	0.075	0.011	E0.010	0.011	0.011

E Estimate.

HUDSON RIVER BASIN

01335754 HUDSON RIVER ABOVE LOCK 1 NEAR WATERFORD, NY

LOCATION.--Lat 42°49'45", long 73°40'00", Saratoga County, Hydrologic Unit 02020003, 0.4 mi upstream from dam at Lock 1c, 3.4 mi downstream from dam at Lock 2c Champlain (Barge) Canal, and 2.8 mi northeast of Waterford.

DRAINAGE AREA.--4,611 mi².

PERIOD OF RECORD.--October 1976 to current year. Daily discharge records prior to October 1981 are published with suspended-sediment data as 01335770 Hudson River at Waterford, NY.

GAGE.--Water-stage recorder. Datum of gage is sea level. Prior to February 1978, nonrecording gage 200 ft downstream.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow regulated appreciably by Great Sacandaga Lake (see station 01323500) and Indian Lake (see station 01314500). Diurnal fluctuation caused by powerplants upstream from station. Water is diverted into St. Lawrence River basin through Glens Falls feeder, Bond Creek, and Champlain (Barge) Canal, and occasionally may be received from that basin through summit level of Champlain (Barge) Canal at Dunham Basin. Water-discharge data for July 1992 through May 1994 based on records for Hudson River at Stillwater (01331095) and Hoosic River near Eagle Bridge (01334500) due to reconstruction of dam at Lock 1c. Telephone gage-height telemeter at station.

AVERAGE DISCHARGE.--20 years, 8,161 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 71,800 ft³/s, Mar. 15, 1977; maximum gage height, 36.38 ft, May 30, 31, 1984; minimum daily discharge, 1,170 ft³/s, July 25, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 56,000 ft³/s, May 13, gage height, 34.76 ft; minimum daily, 2,170 ft³/s, Oct. 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2660	10500	10100	5580	12600	10900	e8200	e42000	e7700	e4800	5880	e4100
2	3450	10900	10400	5270	12400	9910	e8000	e38000	e6200	e4400	5560	3710
3	2170	12200	9830	e5600	13900	9200	e9000	e33000	e6400	e3900	5630	e3800
4	2200	13800	9630	e5900	12800	7740	e8000	e31000	e6900	e6000	e5600	e4300
5	2880	13600	9750	e5800	12300	7900	6950	e30000	e7100	7800	e5500	e3400
6	4410	12500	10000	e6000	11100	8080	6400	e28000	e6300	e7600	e4900	e4400
7	4550	11000	9230	e6100	10800	7760	6080	e27000	e6100	e7400	e5000	3360
8	4800	11300	8660	e6200	10200	e7500	6410	e22000	e9000	e7000	e4400	e3500
9	3640	12000	8200	e6200	10200	8440	6660	e21000	e13000	e6000	e4900	e5000
10	3400	11800	7700	e6300	10400	8300	6470	e20000	e13200	5080	e3800	5010
11	2930	11000	7670	e6800	9970	8720	5960	e25000	e13800	e5200	e4600	e4200
12	2600	18600	7640	e6600	10100	8150	6270	e43000	e12200	e4700	e4200	e4300
13	3230	26500	7230	e6500	9700	7540	6850	e54000	e12000	e7500	e4000	3270
14	3060	23200	7880	e6200	8170	7580	10000	e38000	e12300	e18000	e4600	e3100
15	3670	22100	7690	e6000	8180	8040	12200	e33000	e11200	e14000	4370	e3600
16	5790	20800	6830	e6000	8640	8890	e22000	e28000	e11000	e15000	e3600	e4500
17	6270	18300	6950	e5900	7980	9040	e37000	e26000	e10900	e14000	e4800	4120
18	5290	16700	7440	e6000	7780	8660	e27000	e23000	e10500	e12000	4570	e5100
19	5220	16100	7620	17000	7990	9060	e22000	e22000	e9000	e11000	e4400	e4200
20	4650	15800	6870	43000	7200	9640	20200	e24000	e8500	e10000	e4500	e4700
21	5260	14800	6020	34600	9280	e11000	e24000	e22000	e8000	e9000	e4600	e4300
22	17900	13600	6420	26800	14700	10400	e30000	e20000	e7800	e8300	e4400	e4100
23	26300	13200	5130	21500	16300	9300	e38000	e17000	e7300	e7500	e4400	5090
24	19700	13400	5490	18900	14300	8680	e45000	e18000	e7200	e6200	e3900	5180
25	14000	12800	5380	26800	18300	8340	e40000	e15000	e7800	5830	e4300	e5200
26	10800	11900	5330	20200	14400	8920	e35000	e14000	e6900	4900	e4100	4650
27	9710	11900	5790	19200	11500	9000	e37000	e12000	e5600	7520	e3500	e4600
28	12400	11800	5440	28400	11100	9930	e31000	e10800	e5500	6650	e4400	e4700
29	16700	e11500	5650	24100	9860	8550	e30000	e9700	e4900	e5900	4180	7390
30	13200	e11000	5900	20400	---	8280	e35000	e8300	e4500	5030	e4100	6830
31	11300	---	4760	17100	---	7820	---	e8000	---	e5300	e4000	---
TOTAL	234140	434600	228630	426950	322150	271270	586650	762800	258800	243510	140690	133710
MEAN	7553	14490	7375	13770	11110	8751	19550	24610	8627	7855	4538	4457
MAX	26300	26500	10400	43000	18300	11000	45000	54000	13800	18000	5880	7390
MIN	2170	10500	4760	5270	7200	7500	5960	8000	4500	3900	3500	3100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1996, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1977	6856	16560	1978	3054	1981
1978	8882	14490	1979	4188	1981
1979	8664	16250	1980	4945	1983
1980	8050	15880	1981	3157	1981
1981	8187	16250	1982	3973	1980
1982	11410	20240	1983	5845	1989
1983	16420	29480	1984	5508	1995
1984	11450	24610	1985	3635	1995
1985	5984	10290	1986	2718	1988
1986	3974	7855	1987	2291	1995
1987	3907	7282	1988	2481	1985
1988	4232	7009	1989	2654	1980

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1977 - 1996
ANNUAL TOTAL	2283160	4043900	
ANNUAL MEAN	6255	11050	8161
HIGHEST ANNUAL MEAN			11050
LOWEST ANNUAL MEAN			5334
HIGHEST DAILY MEAN	26500	Nov 13	62000
LOWEST DAILY MEAN	1430	Sep 3	1170
ANNUAL SEVEN-DAY MINIMUM	1520	Aug 23	1520
10 PERCENT EXCEEDS	12600		23100
50 PERCENT EXCEEDS	5100		8000
90 PERCENT EXCEEDS	2200		4270

e Estimated

HUDSON RIVER BASIN

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01335770 HUDSON RIVER AT WATERFORD, NY (National water-quality assessment program station)

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

DRAINAGE AREA.--4,620 mi².

PERIOD OF RECORD.--Water years 1970 to current year.

CHEMICAL DATA: 1970-71 (e), 1972-76 (d), 1978 (e), 1979 (d), 1980-82 (e), 1987 (b), 1988-89 (c), 1990-91 (b), 1992 (a), 1993 (c), 1994 (d), 1995 (c), 1996 (a).

MINOR ELEMENTS DATA: 1970-71 (e), 1972-76 (d), 1977-79 (e), 1980-81 (d), 1982 (a), 1983, 1987 (b), 1988-89 (c), 1990-91(b), 1992-93 (a).

PESTICIDE DATA: 1975 (b), 1976 (d), 1977-79 (e), 1982, 1993-94, 1996 (a).

ORGANIC DATA: OC--1974 (c), 1975 (d), 1976 (c), 1978-79 (d), 1993 (c), 1994 (d), 1995 (c), 1996 (a).

PCB--1975 (b), 1976 (d), 1977-84 (e), 1985 (c), 1986-87 (e), 1988 (d), 1989 (e), 1991 (d),

1992-94 (e), 1995 (d), 1996 (e).

PCN--1977-79 (e), 1982, 1993 (a).

NUTRIENT DATA: 1970-71 (e), 1972-75 (d), 1976 (c), 1977-78 (e), 1979-81 (d), 1993 (c), 1994 (d), 1995 (c), 1996 (a).

BIOLOGICAL DATA:

Bacteria--1978 (e), 1979-81 (d), 1993 (a).

Phytoplankton--1974 (a), 1975 (b), 1976 (c), 1979 (d), 1993 (a).

SEDIMENT DATA: 1975 (b), 1976-96 (e).

PERIOD OF DAILY RECORD.--SUSPENDED-SEDIMENT DISCHARGE: October 1976 to current year.

REMARKS.--Water discharge data based on records obtained above Lock 1 near Waterford (station 01335754), 3.2 mi upstream.

EXTREMES FOR PERIOD OF DAILY RECORD (water years 1977-96).--

SUSPENDED-SEDIMENT CONCENTRATION: Maximum daily mean, 810 mg/L, March 14, 1977; minimum daily mean, <1 mg/L, July 28, Aug. 2, 1991, several days in September 1993, Oct. 4, 21, 23-25, 1993, Jan. 5, May 2, 20, Sept. 20, 1995.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 119,000 tons, March 14, 1977; minimum daily, 3.9 tons, Sept. 7, 1981.

REVISIONS.--The pesticide data published in the 1994 annual data report (WDR NY-94-1) are republished here because many of the method detection limits were revised after reevaluation of method performance. Revised method detection limits are listed after the NAWQA section Introduction.

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)
JUN 08...	1530	0.014	0.014

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

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	
MAY 13...	1540	e54000	102	7.0	15.0	10.0	762	8.5	75	34
JUN 27...	1640	e5600	170	7.3	29.0	23.5	762	--	--	--

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
MAY 13...	10	2.2	4.6	22	0.3	0.60	24	7.5	7.6	<0.10
JUN 27...	--	--	--	--	--	--	--	--	--	--

e Estimated daily.

HUDSON RIVER BASIN

01335770 HUDSON RIVER AT WATERFORD, NY--Continued

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

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)
MAY 13...	5.0	56	56	<0.010	0.250	0.030	0.40	0.20	0.100	<0.010
JUN 27...	--	--	--	--	--	--	--	--	--	--
DATE	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA- ZINE, WATER, DISS, REC, (UG/L) (39632)	CYANA- ZINE, WATER, DISS, REC, (UG/L) (04041)	DEETHYL ATRA- ZINE, WATER, DISS, REC, (UG/L) (04040)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)
MAY 13...	<0.010	92	11	3.6	1.6	--	--	--	--	--
JUN 27...	--	--	--	--	--	E0.003	0.020	0.009	E0.003	0.023

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. & FINER THAN .062 MM (70331)
MAY 13...	1540	e54000	84	79

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

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	AROCLO 1254 PCB TOTAL (UG/L) (39504)	AROCLO 1242 PCB TOTAL (UG/L) (39496)
OCT 03...	1250	1590	4	16	<0.01	<0.02
19...	1420	5230	6	79	0.01	0.02
22...	1705	25800	182	12700	0.03	0.02
23...	1340	26300	102	7240	0.06	0.01
26...	1320	11300	9	284	0.01	0.02
NOV 13...	1450	26200	69	4900	0.02	0.03
DEC 07...	1400	8260	3	71	<0.01	<0.01
JAN 21...	1710	32700	91	7990	0.01	0.02
31...	1530	17000	9	413	<0.01	<0.02
FEB 22...	1410	14900	45	1800	0.01	<0.02
MAR 15...	1422	7440	5	104	<0.01	<0.02
27...	1350	8880	7	158	<0.01	<0.02
APR 05...	1250	6850	4	80	<0.01	<0.02
11...	1319	5490	4	59	<0.01	<0.02
18...	1316	e27000	47	3430	0.01	0.02
25...	1310	e40000	71	7670	0.01	0.02
MAY 01...	1352	e42000	129	14600	0.01	0.01
02...	1325	e38000	35	3590	0.01	0.01
09...	1225	e21000	9	510	0.01	0.02
14...	1325	e38000	29	2980	0.01	0.03
16...	1344	e28000	13	983	0.01	0.02
23...	1333	e17000	7	321	0.01	0.02
JUN 03...	1530	e6400	4	69	0.01	0.03
21...	1227	e8000	12	259	<0.01	0.01
JUL 15...	1353	e14000	42	1590	0.01	0.03
AUG 07...	1305	e5000	4	54	0.01	0.02

E Estimate.

e Estimated daily.

HUDSON RIVER BASIN

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01335770 HUDSON RIVER AT WATERFORD, NY--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)
OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	5	36	7	198	8	218	2	30	11	374	7	206
2	3	28	7	206	4	112	4	57	8	268	6	161
3	5	29	6	198	e4	106	e4	60	8	300	8	199
4	4	24	7	261	3	78	e4	64	7	242	7	146
5	4	31	12	441	3	79	e4	63	7	232	6	128
6	8	95	7	236	4	108	e4	65	5	150	4	87
7	6	74	5	148	4	100	e4	66	4	117	4	84
8	6	78	5	153	6	140	e4	67	5	138	5	101
9	6	59	5	162	5	111	e4	67	5	138	9	205
10	5	46	4	127	4	83	e4	68	5	140	8	179
11	5	40	5	148	3	62	e4	73	6	162	3	71
12	4	28	99	4970	e3	62	e4	71	e5	136	3	66
13	4	35	73	5220	e3	59	e4	70	e5	131	10	204
14	4	33	26	1630	e3	64	e4	67	e5	110	11	225
15	5	50	23	1370	e3	62	e4	65	5	110	10	217
16	5	78	16	899	e3	55	e4	65	4	93	16	384
17	7	119	6	296	e3	56	4	64	3	65	15	366
18	6	86	4	180	e3	60	5	81	2	42	11	257
19	4	56	5	217	e3	62	87	3990	e2	43	10	245
20	4	50	6	256	e3	56	195	22600	e2	39	15	390
21	10	142	7	280	e3	49	120	11200	18	451	11	327
22	104	5030	3	110	e3	52	65	4700	44	1750	7	197
23	136	9660	2	71	e3	42	41	2380	51	2240	8	201
24	40	2130	4	145	e3	44	29	1480	43	1660	8	187
25	18	680	2	69	e3	44	128	9260	42	2080	8	180
26	10	292	5	161	e3	43	86	4690	19	739	12	289
27	7	184	2	64	e3	47	59	3060	9	279	6	146
28	6	201	4	127	e3	44	203	15600	8	240	3	80
29	51	2300	5	155	6	92	59	3840	8	213	4	92
30	22	784	e6	178	2	32	18	991	---	---	3	67
31	8	244	---	---	3	39	12	554	---	---	2	42
DAY	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	2	44	86	9750	e5	104	10	130	e10	159	16	177
2	7	151	41	4210	e5	84	9	107	e8	120	e18	180
3	4	97	20	1780	4	69	11	116	e8	122	e20	205
4	3	65	14	1170	7	130	50	810	e7	106	21	244
5	3	56	13	1050	8	153	19	400	e7	104	10	92
6	2	35	10	756	7	119	e7	144	e6	79	16	190
7	3	49	11	802	11	181	e7	140	4	54	10	91
8	3	52	12	713	11	267	e8	151	e5	59	8	76
9	4	72	10	567	8	281	11	178	e5	66	11	148
10	2	35	64	3460	13	463	10	137	e5	51	3	41
11	2	32	175	11800	15	559	12	168	e5	62	11	125
12	3	51	185	21500	17	560	11	140	e5	57	9	104
13	2	37	85	12400	112	3630	38	769	e5	54	10	88
14	22	594	35	3590	17	565	145	7050	e5	62	e10	84
15	17	560	24	2140	12	363	44	1660	e5	59	e10	97
16	33	1960	13	983	17	505	80	3240	e5	49	17	207
17	181	18100	14	983	19	559	43	1630	e5	65	8	89
18	43	3130	15	931	10	283	10	324	e5	62	22	303
19	78	4630	11	653	8	194	e10	297	e5	59	18	204
20	22	1200	10	648	7	161	e10	270	e5	61	27	343
21	14	907	9	535	9	194	e8	194	e5	62	12	139
22	37	3000	7	378	7	147	3	67	e5	59	7	77
23	60	6160	8	367	8	158	6	121	e5	59	12	165
24	104	12600	7	340	7	136	7	117	e5	53	7	98
25	67	7240	8	324	8	168	10	157	e5	58	8	112
26	43	4060	6	227	8	149	e7	93	e5	55	8	100
27	36	3600	4	130	7	106	4	81	e5	47	9	112
28	22	1840	8	233	8	119	e3	54	e5	59	18	228
29	28	2270	5	131	14	185	3	48	e5	56	39	778
30	31	2930	5	112	11	134	15	204	e5	55	23	424
31	---	---	6	130	---	---	e10	143	e5	54	---	---

e Estimated daily.

HUDSON RIVER BASIN

01336000 MOHAWK RIVER BELOW DELTA DAM, NEAR ROME, NY

LOCATION.--Lat 43°15'52", long 75°26'12", Oneida County, Hydrologic Unit 02020004, on right bank at Rome Fish Hatchery, 1.0 mi downstream from Delta Dam, and 4.0 mi north of Rome.

DRAINAGE AREA.--152 mi².

PERIOD OF RECORD.--July 1921 to September 1927 (monthly discharges only, published in WSP 1302), October 1927 to current year.

REVISED RECORDS.--WDR NY-85-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 472.85 ft above sea level. Prior to Jan. 24, 1937, nonrecording gage at site 200 ft downstream at same datum.

REMARKS.--No estimated daily discharges. Records good. During canal navigation season, water is diverted from Black River through Forestport feeder and Black River Canal (flowing south) into basin above Delta Reservoir. Flow regulated by Delta Reservoir (usable capacity, 2,800 mil ft³). Small quantity of water diverted from Delta Reservoir for fish hatchery use and later returned to river, part upstream and part downstream from station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--69 years (water years 1928-96), 368 ft³/s, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,560 ft³/s, Oct. 2, 1945, gage height, 11.18 ft, from rating curve extended above 5,200 ft³/s on basis of flow-over-dam measurement of peak flow; minimum discharge, 18 ft³/s, July 21, 27, Oct. 24, 25, 1983, minimum gage height, 0.63 ft, Oct. 24, 25, 1983; minimum daily discharge, 45 ft³/s, Jan. 17, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,670 ft³/s, Apr. 16, gage height, 7.50 ft; minimum, 137 ft³/s, part or all of each day Oct. 1-5, 11-14, gage height, 1.55 ft; minimum daily discharge, 137 ft³/s, Oct. 2-3, 13.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	138	293	159	151	941	245	266	1480	241	231	242	235
2	137	872	160	151	936	243	263	1110	215	231	240	234
3	137	1180	159	151	931	242	260	805	196	232	240	234
4	138	1160	165	153	926	884	257	680	190	276	241	234
5	138	1150	161	153	443	1170	254	701	198	311	242	234
6	154	791	159	153	221	1160	255	621	189	312	242	234
7	147	612	156	153	220	1160	259	539	204	279	242	234
8	143	444	156	152	220	1160	261	453	256	250	243	236
9	142	335	155	151	226	1150	271	397	313	239	246	236
10	140	328	154	151	232	1140	331	526	416	235	243	236
11	139	1170	154	152	231	1140	378	1750	445	234	241	234
12	139	1730	154	348	228	1130	484	2330	514	440	240	234
13	137	1670	153	470	225	494	560	1710	480	454	240	234
14	142	1660	153	470	223	243	1560	1070	550	263	240	234
15	175	1660	151	473	223	252	1390	748	420	302	240	234
16	158	923	151	470	223	256	3120	577	304	364	241	234
17	155	260	151	468	223	249	2550	500	232	419	240	234
18	148	255	151	474	223	247	1600	529	314	375	240	234
19	146	256	152	631	223	257	1180	678	310	419	240	233
20	144	256	152	552	222	281	1080	591	323	611	240	231
21	213	254	151	511	273	279	1160	649	294	465	239	231
22	180	257	150	503	261	262	1060	750	270	350	237	234
23	154	255	149	824	474	253	1390	587	252	283	237	241
24	148	1210	149	988	626	251	1750	574	234	252	237	234
25	146	1660	151	992	603	261	1240	481	238	243	237	234
26	146	1640	151	967	410	289	993	389	235	243	237	232
27	147	589	151	983	246	258	1180	330	234	243	237	232
28	145	179	151	974	263	253	936	283	234	241	237	303
29	146	166	151	957	250	254	743	254	233	240	237	295
30	194	159	151	951	---	257	893	317	232	241	237	247
31	293	---	151	945	---	263	---	282	---	241	236	---
TOTAL	4809	23374	4762	15622	10946	15983	27924	22691	8766	9519	7431	7166
MEAN	155	779	154	504	377	516	931	732	292	307	240	239
MAX	293	1730	165	992	941	1170	3120	2330	550	611	246	303
MIN	137	159	149	151	220	242	254	254	189	231	236	231

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1996, BY WATER YEAR (WY)

MEAN	308	363	402	469	386	433	668	382	276	253	234	251
MAX	1199	784	888	1152	917	1038	1319	929	755	518	423	651
(WY)	1946	1960	1984	1930	1932	1943	1993	1972	1972	1935	1986	1945
MIN	105	144	102	85.5	98.4	92.9	185	152	147	147	143	92.6
(WY)	1935	1962	1961	1961	1961	1931	1946	1995	1988	1941	1941	1934

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1928 - 1996	
ANNUAL TOTAL	91709		158993			
ANNUAL MEAN	251		434		368	
HIGHEST ANNUAL MEAN					601	
LOWEST ANNUAL MEAN					219	
HIGHEST DAILY MEAN	1730	Nov 12	3120	Apr 16	7270	Oct 2 1945
LOWEST DAILY MEAN	134	Sep 26	137	Oct 2	45	Jan 17 1931
ANNUAL SEVEN-DAY MINIMUM	135	Sep 24	140	Oct 8	55	Feb 28 1931
10 PERCENT EXCEEDS	331		1070		721	
50 PERCENT EXCEEDS	160		248		253	
90 PERCENT EXCEEDS	142		151		168	

LOCATION.--Lat 43°04'08", long 74°59'19", Herkimer County, Hydrologic Unit 02020004, on right bank 600 ft downstream from bridge on old State Highway 28 at Kast Bridge, 1.2 mi downstream from North Creek, 2.2 mi north of Herkimer, and 4.0 mi upstream from mouth. Prior to Oct. 23, 1985, at site on left bank.

DRAINAGE AREA.--560 mi².

PERIOD OF RECORD.--January 1907, April to December 1907, March 1908 to December 1909, April 1910 to December 1911 (monthly discharges only, published in WSP 1302), January 1912 to December 1913, April 1914 to June 1918 (monthly discharges only, published in WSP 1302), October 1920 to current year.

REVISED RECORDS.--WDR NY-85-1: Drainage area.

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

REMARKS.--Records good except those for estimated daily discharges, which are poor. Since March 1914, flow regulated by Hinckley Reservoir, 31 mi upstream from station (usable capacity, 3,320 mil ft³). Diurnal fluctuation at low and medium flow caused by powerplants upstream from station. Diversion at Trenton Falls, 26 mi upstream from station, by Ninemile feeder since 1915 during canal navigation season. Diversion from Hinckley Reservoir for Utica water supply returned to Mohawk River.

AVERAGE DISCHARGE.--76 years (water years 1921-96), 1,326 ft³/s, unadjusted.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,600 ft³/s, Jan. 19, gage height, 6.82 ft; minimum, 112 ft³/s, Aug. 22, gage height, 1.81 ft; minimum daily, 305 ft³/s, Oct. 3.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	307	2090	1370	706	1310	1710	1990	4360	689	669	736	602
2	306	2320	1360	929	1410	1670	1790	4610	677	651	686	597
3	305	1970	1280	e900	1350	1610	1860	3700	779	704	674	597
4	453	2440	1420	e900	1290	1430	1800	3250	799	1510	686	552
5	485	2290	1390	e860	1360	1580	1720	3200	835	1380	658	633
6	678	2150	1290	e800	1340	1630	1730	2910	929	819	578	618
7	712	1650	1210	e880	1370	1640	1810	2460	866	737	668	456
8	524	1850	1180	e820	1390	2040	1880	2240	797	722	790	543
9	398	1690	1190	e880	1790	2030	1800	1840	988	694	836	668
10	373	1570	e1100	e900	1750	1960	1790	2020	1590	711	683	622
11	352	1620	e1100	e900	1700	2000	1710	3360	2900	504	642	603
12	347	3480	1210	e860	1520	1940	1450	6380	2370	604	629	548
13	340	3120	1200	845	e1450	1980	1520	6260	2380	562	635	578
14	510	2510	e1100	851	e1400	2040	2550	4400	2220	725	665	624
15	1660	2810	e1100	769	e1350	1800	1620	3180	1580	923	664	553
16	1010	2710	e1000	702	e1300	2000	2930	2580	1530	1110	714	493
17	1400	2520	1060	e800	e1250	1730	2320	2460	1510	814	696	526
18	1110	2390	e1000	e1000	e1200	1750	2210	2620	729	681	666	607
19	1030	2390	e980	e6400	e1200	2030	1990	2770	789	847	654	591
20	989	2380	e960	2960	1420	2590	2140	2330	877	1810	651	581
21	2700	2300	e1100	1440	2940	2280	2750	2180	824	1520	690	592
22	3560	1560	960	1330	2360	1960	2690	2300	918	1270	647	662
23	5620	1580	925	1520	1990	1740	3280	1630	690	687	635	842
24	4160	1530	1070	2100	2960	1680	5470	1720	670	652	621	690
25	2790	1420	1130	2330	1940	1850	6310	1570	748	632	637	580
26	2220	1440	1070	1640	1760	2220	4600	1550	712	698	611	591
27	1950	1440	1030	2210	1500	1470	3960	1530	729	682	738	602
28	2060	1990	1030	2030	1850	1760	3310	1500	693	646	737	1100
29	2110	1640	996	1520	1700	1780	2990	1310	634	646	611	2190
30	2080	1450	1010	1530	---	1840	4020	1060	686	640	603	1220
31	2060	---	998	1370	---	1940	---	780	---	717	568	---
TOTAL	44599	62300	34819	43682	47150	57680	77990	84060	33138	25967	20709	20661
MEAN	1439	2077	1123	1409	1626	1861	2600	2712	1105	838	668	689
MAX	5620	3480	1420	6400	2960	2590	6310	6380	2900	1810	836	2190
MIN	305	1420	925	702	1200	1430	1450	780	634	504	568	456

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1996, BY WATER YEAR (WY)

MEAN	950	1338	1391	1316	1227	1881	2922	1876	978	747	597	700
MAX	3131	2984	2797	3044	2704	3725	5623	4667	3875	2075	1481	1831
(WY)	1946	1960	1928	1930	1981	1945	1993	1972	1972	1935	1986	1977
MIN	338	335	621	453	316	681	1056	594	359	283	227	284
(WY)	1965	1965	1931	1931	1931	1940	1995	1987	1941	1941	1934	1934

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1921 - 1996

ANNUAL TOTAL	382030		552755						
ANNUAL MEAN	1047		1510					1326	
HIGHEST ANNUAL MEAN								1872	1972
LOWEST ANNUAL MEAN								829	1965
HIGHEST DAILY MEAN	5620	Oct 23	6400	Jan 19	16100				Oct 2 1945
LOWEST DAILY MEAN	254	Sep 7	305	Oct 3	59				Sep 2 1929
ANNUAL SEVEN-DAY MINIMUM	334	Sep 27	406	Oct 8	211				Aug 16 1934
10 PERCENT EXCEEDS	2190		2690		2590				
50 PERCENT EXCEEDS	930		1340		1000				
90 PERCENT EXCEEDS	387		606		452				

e Estimated

HUDSON RIVER BASIN

01347000 MOHAWK RIVER NEAR LITTLE FALLS, NY

LOCATION.--Lat 43°00'53", long 74°46'47", Herkimer County, Hydrologic Unit 02020004, on left bank 1,800 ft downstream from Fivemile Dam, 2.0 mi upstream from East Canada Creek, and 4.5 mi southeast of city of Little Falls.

DRAINAGE AREA.--1,342 mi².

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

REVISED RECORDS.--WSP 741: 1929(M). WSP 1302: 1932(M). WSP 1432: 1928-30. WDR NY-85-1: Drainage area.

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

REMARKS.--Records good except those for estimated daily discharges, which are poor. Records of daily discharge include diversion at Fivemile Dam into Erie (Barge) Canal for lockages at lock 16, near St. Johnsville. During canal navigation season, water is received from Black River basin through Black River Canal flowing south, and from Chenango River basin through Oriskany Creek feeder. Water is diverted into (or may occasionally be received from) Oswego River basin through summit level of Erie (Barge) Canal between New London and Utica. Diurnal fluctuation caused by powerplants and locks and dams on Erie (Barge) Canal. Regulation by Delta and Hinckley Reservoirs (combined usable capacity, 6,120 mil ft³) (see Reservoirs in Hudson River Basin). Telephone gage-height telemeter at station.

COOPERATION.--Figures of diversions at Fivemile Dam into Erie (Barge) Canal provided by New York State Department of Transportation.

AVERAGE DISCHARGE.--69 years, 2,832 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (river channel only), 33,100 ft³/s, Mar. 14, 1977, gage height, 19.17 ft, from floodmark in gage house; minimum discharge (river channel only), 214 ft³/s, Aug. 18, 1949, gage height, 3.75 ft; minimum daily discharge, probably not less than 463 ft³/s, Sept. 2, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges (river channel only) greater than base discharge of 16,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 19	2030	*30,700	*18.47	May 12	0730	16,200	13.54

Minimum discharge (river channel only), 401 ft³/s, Aug. 22, gage height, 4.27 ft; minimum daily, 545 ft³/s, Oct. 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	603	2810	3100	1400	e3500	e3300	3780	10800	1420	1190	1440	981
2	559	2990	3110	1670	e3100	e3000	3650	10500	1350	1150	1340	1000
3	545	3720	2870	e1500	e2800	e2700	3560	8910	1350	1200	1230	948
4	694	4860	3220	e1500	e2500	e2500	3390	7070	1360	2790	1220	932
5	883	4520	3480	e1400	e2300	e2600	3130	6940	1480	5180	1160	984
6	1150	4280	3080	e1300	e2100	e3000	2980	5700	1550	2870	1040	1030
7	1480	3360	2750	e1400	e2000	e3300	3080	5060	1570	1850	1060	910
8	1130	3960	2830	e1400	e2100	e3400	3380	4630	1860	1560	2330	937
9	900	3780	2290	e1500	3030	e3600	3320	3600	2210	1470	3000	1200
10	695	3050	e2100	1580	3790	e3800	3370	3920	3050	1410	2250	1230
11	740	2890	2010	1550	3540	4190	3120	6800	5760	1040	1540	1140
12	618	8400	2540	1480	e3000	4020	2900	14000	4040	1170	1280	1020
13	644	8060	2300	1540	2590	3880	3110	14600	3930	1390	1210	1010
14	683	7460	2000	1630	e2400	3590	6540	12200	3700	1700	1220	1040
15	3620	7410	1990	1740	e2300	3890	6060	8750	2960	1790	1210	1050
16	2680	7360	2120	1570	e2100	4960	8610	6130	2460	2400	1450	911
17	2410	5990	2090	1720	e1900	4320	8470	4560	2250	1910	1510	988
18	1970	4710	2010	2480	e1800	4020	8580	4890	1450	1550	1260	1240
19	1660	4420	1920	13800	e1700	4420	7750	5710	1480	1560	1240	1170
20	1510	4390	1790	15600	e2100	6220	6340	5240	1850	3060	1130	1070
21	4780	4440	1990	11600	5380	6590	6350	4240	1690	2680	1130	1080
22	8480	3660	1990	8970	7070	5830	5750	4890	1670	2220	881	1050
23	8600	3550	1630	6810	5930	4610	7030	3690	1390	1380	960	1640
24	6090	3360	1880	5760	7180	3770	9880	3540	1290	1240	1130	1550
25	3970	3690	2000	7420	6870	3720	11800	3260	1360	1170	1110	1220
26	3130	4130	1920	6390	5940	5410	9490	2880	1350	1280	1020	1170
27	2670	4160	1820	6880	4420	4660	7850	2650	1290	1230	1050	1120
28	2660	4400	1850	7200	e4000	3990	6790	2480	1220	1150	1550	1500
29	2730	4660	1770	6200	e3700	3640	5980	2230	1190	1190	1110	4940
30	2730	3460	1760	5160	---	3570	7990	1940	1210	1060	1060	3240
31	2650	---	1770	4070	---	3660	---	1580	---	1250	995	---
TOTAL	73664	137930	69980	134220	101140	124160	174030	183390	60740	54090	41116	39301
MEAN	2376	4598	2257	4330	3488	4005	5801	5916	2025	1745	1326	1310
MAX	8600	8400	3480	15600	7180	6590	11800	14600	5760	5180	3000	4940
MIN	545	2810	1630	1300	1700	2500	2900	1580	1190	1040	881	910

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1996, BY WATER YEAR (WY)

	1926	2838	3112	3030	2914	4776	6096	3356	1886	1482	1184	1416
MEAN	1926	2838	3112	3030	2914	4776	6096	3356	1886	1482	1184	1416
MAX	6529	5873	6254	6742	6759	9558	13160	7879	6306	3771	2912	4361
(WY)	1946	1960	1974	1930	1976	1945	1993	1943	1972	1935	1986	1977
MIN	719	750	1061	820	679	1693	2289	1334	903	685	642	684
(WY)	1965	1931	1931	1931	1931	1940	1995	1995	1941	1934	1934	1939

e Estimated

HUDSON RIVER BASIN

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01347000 MOHAWK RIVER NEAR LITTLE FALLS, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1928 - 1996	
ANNUAL TOTAL	792934		1193761			
ANNUAL MEAN	2172		3262		2832	
HIGHEST ANNUAL MEAN					4208 1976	
LOWEST ANNUAL MEAN					1684 1931	
HIGHEST DAILY MEAN	9280	Jan 16	15600	Jan 20	29900	Mar 14 1977
LOWEST DAILY MEAN	400	Mar 1	545	Oct 3	400	Mar 1 1995
ANNUAL SEVEN-DAY MINIMUM	599	Aug 23	773	Oct 8	529	Aug 29 1934
10 PERCENT EXCEEDS	4530		6830		5930	
50 PERCENT EXCEEDS	1770		2520		1940	
90 PERCENT EXCEEDS	690		1070		903	

HUDSON RIVER BASIN

01349150 CANAJOHARIE CREEK NEAR CANAJOHARIE, NY
(National water-quality assessment program station)

LOCATION.--Lat 42°52'34", long 74°36'12", Montgomery County, Hydrologic Unit 02020004, on right bank 10 ft upstream from bridge on McEwan Road, and 2.3 mi southwest of Canajoharie. Water-quality sampling site at discharge station.
DRAINAGE AREA.--59.7 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1993 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 640 ft above sea level, from topographic map.

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

AVERAGE DISCHARGE.--3 years, 72.5 ft³/s, 16.49 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,280 ft³/s, Jan. 19, 1996, gage height, 8.51 ft; maximum gage height, 8.81 ft, Mar. 29, 1993 (ice jam); minimum discharge, 0.23 ft³/s, Aug. 27, 28, 29, 1995, gage height, 1.26 ft.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 21	2200	1,460	6.26	Apr. 14	0415	1,210	5.86
Jan. 19	1745	ice jam	*8.69	Apr. 23	0245	1,830	6.81
Jan. 19	2330	*3,280	8.51	Apr. 30	2315	1,410	6.18
Jan. 27	1915	1,440	6.23	May 11	2145	2,240	7.35

Minimum discharge, 1.2 ft³/s, Oct. 13; minimum gage height, 1.40 ft, Oct. 1, 2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	24	89	e20	e60	e40	89	515	16	6.3	103	4.6
2	1.7	26	137	e19	e40	e25	103	198	15	5.1	49	4.4
3	1.9	49	83	e18	e27	e16	88	139	14	6.7	60	4.2
4	2.4	68	106	e17	e22	e13	75	228	19	23	108	4.1
5	3.2	45	91	e17	e20	e11	64	254	16	31	47	4.5
6	14	38	77	e18	e21	e10	57	367	12	11	35	4.8
7	12	33	67	e19	e22	e9.0	64	243	12	8.0	29	5.3
8	4.6	47	58	e20	e24	e9.4	106	147	32	6.8	27	4.8
9	2.6	40	49	e21	e27	e8.0	118	115	33	6.3	39	5.6
10	2.4	31	51	e20	e30	e8.0	105	107	131	5.9	45	5.9
11	2.1	31	41	e19	e25	e10	78	863	69	5.4	31	5.8
12	1.7	470	39	e18	e20	e13	81	1280	39	4.8	28	4.7
13	1.3	178	35	e18	e17	16	163	352	38	198	28	4.7
14	1.9	133	38	e18	e15	20	776	183	29	241	28	6.0
15	37	229	45	e18	e13	174	240	125	20	119	28	6.3
16	12	250	46	e19	e12	157	765	96	16	89	29	5.2
17	6.0	156	41	e60	e11	60	399	88	14	44	32	5.7
18	4.2	119	36	e250	e10	92	208	88	13	29	28	24
19	3.1	112	34	e1500	11	102	144	94	12	37	22	14
20	2.9	129	e32	e1400	20	276	121	65	18	68	20	7.8
21	362	153	e30	386	287	205	183	55	14	31	18	6.3
22	370	161	e29	198	261	154	164	54	12	22	17	6.0
23	91	113	e28	141	183	99	873	40	10	18	18	7.8
24	48	89	e27	350	372	72	580	41	8.5	19	19	11
25	33	67	e27	430	168	90	243	32	8.4	17	16	8.4
26	24	61	e26	181	86	347	170	27	7.8	60	14	8.1
27	19	61	e25	510	e50	146	135	25	6.7	56	14	6.8
28	45	213	e24	346	e60	96	99	23	6.4	34	9.8	6.6
29	55	151	e23	e170	e50	82	393	21	6.1	26	7.2	17
30	33	92	e22	e110	---	80	570	19	6.4	27	5.6	14
31	25	---	e21	e80	---	82	---	17	---	58	4.9	---
TOTAL	1223.7	3369	1477	6411	1964	2521.4	7254	5901	654.3	1313.3	959.5	224.4
MEAN	39.5	112	47.6	207	67.7	81.3	242	190	21.8	42.4	31.0	7.48
MAX	370	470	137	1500	372	347	873	1280	131	241	108	24
MIN	1.3	24	21	17	10	8.0	57	17	6.1	4.8	4.9	4.1
CFSM	.66	1.88	.80	3.46	1.13	1.36	4.05	3.19	.37	.71	.52	.13
IN.	.76	2.10	.92	3.99	1.22	1.57	4.52	3.68	.41	.82	.60	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1996, BY WATER YEAR (WY)

	1993	1994	1995	1996	1993	1994	1995	1996	1993	1994	1995	1996
MEAN	16.8	62.0	59.6	110	58.4	165	301	67.6	16.0	16.2	25.7	5.06
MAX	39.5	112	73.8	207	83.0	268	486	190	22.1	42.4	67.0	7.52
(WY)	1996	1996	1995	1996	1994	1994	1993	1996	1994	1996	1994	1994
MIN	4.99	8.38	47.6	20.1	24.2	81.3	57.9	15.3	7.39	3.19	1.36	2.21
(WY)	1995	1995	1996	1994	1995	1996	1995	1995	1993	1995	1995	1995

e Estimated

HUDSON RIVER BASIN

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01349150 CANAJOHARIE CREEK NEAR CANAJOHARIE, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1993 - 1996
ANNUAL TOTAL	17236.76	33272.6	
ANNUAL MEAN	47.2	90.9	72.5
HIGHEST ANNUAL MEAN			90.9 1996
LOWEST ANNUAL MEAN			38.0 1995
HIGHEST DAILY MEAN	528 Jan 20	1500 Jan 19	2600 Mar 30 1993
LOWEST DAILY MEAN	.27 Aug 27	1.3 Oct 13	.27 Aug 27 1995
ANNUAL SEVEN-DAY MINIMUM	.37 Aug 23	2.4 Oct 8	.37 Aug 23 1995
ANNUAL RUNOFF (CFSM)	.79	1.52	1.21
ANNUAL RUNOFF (INCHES)	10.74	20.73	16.50
10 PERCENT EXCEEDS	118	217	198
50 PERCENT EXCEEDS	21	31	18
90 PERCENT EXCEEDS	1.8	6.0	2.9

HUDSON RIVER BASIN

01349150 CANAJOHARIE CREEK NEAR CANAJOHARIE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1993 to current year.

CHEMICAL DATA: 1993 (c), 1994-96 (e).

PESTICIDE DATA: 1993 (a), 1994 (d), 1995-96 (e).

ORGANIC DATA: OC--1993 (c), 1994-95 (e), 1996 (c).

PCB--1993 (a).

PCN--1993 (a).

NUTRIENT DATA: 1993 (c), 1994-95 (e), 1996 (c).

BIOLOGICAL DATA:

Bacteria--1993 (a).

Phytoplankton--1993 (a).

SEDIMENT DATA: 1993 (c), 1994-95 (e), 1996 (c).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: March 1993 to current year.

INSTRUMENTATION.--Water-temperature recorder provides 15-minute-interval readings.

REMARKS.--Interruptions of temperature record were due to malfunction of recording instrument. Temperature probe may be influenced by solar radiation during periods of low flow.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 37.0°C, July 15, 1995; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 28.5°C, Aug. 6, 7; minimum, 0.0°C on many days during winter period.

REVISIONS.--The pesticide data published in the 1994 annual data report (WDR NY-94-1) are republished here because many of the method detection limits were revised after reevaluation of method performance. The pesticide data from the 1995 water year have not been previously published. Revised method detection limits are listed after the NAWQA section Introduction.

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DEETHYL						
		ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)
MAR								
15...	1040	0.038	<0.004	E0.011	<0.002	<0.002	0.022	<0.005
APR								
27...	0950	0.026	<0.004	E0.013	0.024	<0.002	0.015	<0.005
MAY								
04...	1145	0.024	<0.004	E0.012	0.009	<0.002	0.010	<0.005
*04...	1148	0.022	<0.004	E0.010	0.004	<0.002	0.010	<0.005
10...	0950	--	0.013	--	0.006	--	0.005	<0.005
19...	1215	0.032	<0.004	E0.017	0.018	0.004	0.015	<0.005
25...	1240	0.034	0.022	E0.016	0.006	<0.002	0.021	<0.005
JUN								
01...	1230	0.043	<0.004	<0.002	0.035	<0.002	0.025	<0.005
07...	0910	0.040	0.023	E0.010	<0.002	<0.002	0.020	<0.005
14...	1420	0.630	0.048	E0.038	0.007	<0.002	0.520	0.007
23...	1550	0.380	0.200	E0.041	<0.002	<0.002	0.160	<0.005
JUL								
01...	1250	4.30	0.240	E0.220	0.013	<0.002	1.30	0.018
07...	1340	0.320	0.047	E0.044	<0.002	<0.002	0.093	<0.005
AUG								
24...	0940	0.088	<0.004	E0.084	<0.002	<0.002	0.027	<0.005
SEP								
20...	0940	0.042	0.005	E0.017	<0.002	<0.002	0.008	<0.005

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DEETHYL						
		ALA- CHLOR, WATER, DISS, REC (UG/L) (46342)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)
OCT								
18...	0940	<0.002	0.021	<0.004	E0.007	<0.002	0.006	<0.004
NOV								
08...	0940	<0.002	0.029	<0.004	E0.015	<0.002	0.011	<0.004
DEC								
06...	1010	<0.002	0.050	<0.004	E0.033	<0.002	0.020	<0.004
JAN								
17...	1110	<0.002	0.062	<0.004	E0.053	<0.002	0.023	<0.004
FEB								
14...	1000	<0.002	0.019	<0.004	E0.016	<0.002	0.010	<0.004
MAR								
07...	0930	<0.002	0.039	<0.004	E0.017	<0.002	0.016	<0.004
APR								
18...	1500	<0.002	0.019	<0.004	E0.015	<0.002	0.006	<0.004

E Estimate.

* Replicate sample

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01349150 CANAJOHARIE CREEK NEAR CANAJOHARIE, NY--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995--Continued

DATE	TIME	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)
MAY								
11...	1400	<0.002	0.018	<0.004	E0.010	<0.002	0.007	<0.004
16...	1330	<0.002	0.022	0.007	E0.015	<0.002	0.010	<0.004
23...	1550	<0.002	0.031	0.040	E0.009	--	0.014	<0.004
30...	1510	<0.002	0.086	0.022	E0.014	--	0.068	<0.004
JUN								
03...	1420	<0.002	0.035	2.10	E0.024	--	0.110	0.033
07...	1400	<0.002	0.230	0.073	E0.019	--	0.070	<0.004
12...	1515	<0.002	0.072	0.019	E0.011	--	0.025	<0.004
19...	1355	<0.002	0.064	0.015	E0.010	--	0.023	<0.004
27...	1325	<0.002	0.063	<0.004	E0.016	--	0.017	<0.004
JUL								
05...	1340	<0.002	0.048	0.010	E0.015	0.005	--	<0.004
11...	1100	<0.002	0.039	0.006	E0.018	<0.002	0.015	<0.004
18...	1000	<0.002	0.031	<0.004	E0.013	<0.002	0.007	<0.004
24...	1100	<0.002	0.042	0.008	E0.019	<0.002	0.020	<0.004
AUG								
04...	1030	<0.002	0.023	<0.004	E0.009	<0.002	0.005	0.021
10...	1110	<0.002	0.023	<0.004	E0.009	<0.002	0.004	<0.004
SEP								
05...	1240	E0.002	0.028	0.006	E0.014	0.007	0.005	<0.004

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

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED OF (MG/L) (00300)	OXYGEN, DIS- SOLVED SATUR- ATION (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
OCT											
06...	0810	7.2	1450	7.5	15.5	11.0	735	7.8	73	780	250
24...	1230	48	591	7.6	17.5	11.0	744	9.5	89	290	93
NOV											
15...	1000	176	404	7.3	--	--	--	--	--	170	54
DEC											
06...	1215	77	435	7.9	0.5	0.5	742	17.0	122	180	58
JAN											
19...	1430	e1500	220	7.6	8.5	0.0	727	12.8	91	82	26
MAR											
20...	1220	204	249	7.5	8.0	2.0	727	13.4	102	97	31
JUN											
03...	1520	14	674	8.0	--	19.5	--	10.2	--	--	--
04...	0430	17	681	7.8	--	17.5	--	7.3	--	--	--
04...	1000	19	684	7.8	--	18.5	--	7.8	--	--	--
04...	2000	19	697	8.1	--	22.0	--	10.2	--	--	--
05...	0800	16	712	7.8	--	18.5	743	6.9	76	--	--
07...	1115	12	674	8.0	--	--	--	--	--	--	--
09...	1100	35	654	7.6	25.5	19.5	747	7.6	85	--	--
10...	1030	124	408	7.5	21.0	19.0	746	7.3	80	--	--
10...	1215	114	385	7.6	26.0	19.0	746	7.4	81	--	--
10...	1415	106	380	7.7	--	20.0	--	7.7	--	--	--
10...	1730	108	412	7.9	28.5	20.5	744	8.5	96	--	--
10...	2000	128	433	7.9	25.5	20.0	744	8.4	95	--	--
11...	0010	105	458	7.9	18.5	20.0	744	7.7	87	--	--
11...	0400	86	448	7.9	--	20.0	--	7.2	--	--	--
11...	0600	79	443	7.8	19.0	20.0	744	7.0	79	--	--
11...	0800	72	439	7.8	--	20.0	--	7.1	--	--	--
20...	1220	19	710	7.7	19.5	19.5	740	7.8	88	--	--
JUL											
02...	0910	5.1	890	7.6	20.0	22.5	740	5.8	69	--	--
10...	0930	6.0	789	7.6	17.5	21.0	741	6.4	74	--	--
AUG											
26...	1430	14	874	7.6	--	25.5	--	--	--	--	--
SEP											
05...	1315	4.6	1030	7.4	27.0	23.0	749	5.6	67	--	--

E Estimate.

e Estimated daily.

HUDSON RIVER BASIN

01349150 CANAJOHARIE CREEK NEAR CANAJOHARIE, NY--Continued

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

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	
OCT											
06...	37	20	5	0.3	3.5	100	680	30	0.20	0.86	1160
24...	13	14	10	0.4	3.0	114	140	25	0.20	5.6	405
NOV											
15...	7.8	12	13	0.4	2.1	97	55	21	0.10	4.2	233
DEC											
06...	7.9	11	12	0.4	1.5	106	61	22	0.20	2.1	260
JAN											
19...	4.2	8.5	18	0.4	3.5	68	13	16	<0.10	3.9	129
MAR											
20...	4.7	10	18	0.4	2.1	67	19	18	0.10	4.2	150
JUN											
03...	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
JUL											
02...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
AUG											
26...	--	--	--	--	--	--	--	--	--	--	--
SEP											
05...	--	--	--	--	--	--	--	--	--	--	--
DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
OCT											
06...	1080	<0.010	<0.050	0.030	0.30	<0.20	0.030	<0.010	<0.010	14	43
24...	389	0.020	3.30	0.020	0.50	0.40	0.010	<0.010	0.020	13	23
NOV											
15...	228	<0.010	2.40	<0.015	0.40	0.30	0.030	<0.010	0.010	42	10
DEC											
06...	245	<0.010	1.60	<0.015	0.20	0.30	<0.010	<0.010	<0.010	17	10
JAN											
19...	126	0.020	2.20	0.150	0.90	0.70	0.130	0.070	0.050	150	37
MAR											
20...	138	0.020	1.20	0.120	0.90	0.50	0.150	0.050	0.030	140	13
JUN											
03...	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
JUL											
02...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
AUG											
26...	--	--	--	--	--	--	--	--	--	--	--
SEP											
05...	--	<0.010	0.070	0.050	0.40	0.30	0.020	<0.010	<0.010	--	--

HUDSON RIVER BASIN

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01349150 CANAJOHARIE CREEK NEAR CANAJOHARIE, NY--Continued

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

DATE	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA- ZINE, WATER, DISS, REC, (UG/L) (39632)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)
OCT											
06...	--	--	2.7	0.80	--	--	--	--	--	--	--
24...	--	--	4.3	0.40	<0.002	0.048	<0.003	<0.004	0.040	<0.004	<0.005
NOV											
15...	--	--	4.5	0.30	--	--	--	--	--	--	--
DEC											
06...	--	--	3.0	0.20	<0.002	0.026	<0.003	<0.004	0.012	<0.004	<0.005
JAN											
19...	-90.5	-13.34	6.0	7.3	<0.002	0.074	<0.003	<0.004	0.085	<0.004	<0.005
MAR											
20...	--	--	6.0	1.3	<0.002	0.047	<0.003	<0.004	0.037	<0.004	<0.005
JUN											
03...	-68.7	-10.07	--	--	<0.002	0.032	<0.003	0.013	0.017	<0.004	<0.005
04...	-68.8	-10.25	--	--	<0.002	0.028	<0.003	0.012	0.018	<0.004	<0.005
04...	-69.8	-10.08	--	--	E0.002	0.026	<0.003	0.013	0.015	<0.004	<0.005
04...	-70.1	-10.16	--	--	<0.002	0.028	<0.003	0.012	0.018	<0.004	<0.005
05...	-70.9	-10.19	--	--	E0.002	0.030	<0.003	0.011	0.020	<0.004	<0.005
07...	-69.7	-10.06	--	--	E0.002	0.035	<0.003	0.018	0.036	<0.004	<0.005
09...	--	--	--	--	0.007	0.084	<0.003	0.020	0.069	0.008	<0.005
10...	-43.3	-6.94	--	--	0.048	20.0	E0.008	0.850	2.10	0.061	0.120
10...	-42.2	-6.95	--	--	0.041	E10.0	<0.003	0.750	E3.10	0.060	0.097
10...	-42.6	-7.02	--	--	--	--	--	--	--	--	--
10...	-49.3	-7.97	--	--	0.020	4.60	<0.003	0.420	0.700	0.035	0.030
10...	--	--	--	--	0.019	E3.50	<0.003	0.380	0.510	0.024	0.026
11...	-55.7	-8.64	--	--	0.014	2.50	<0.003	0.320	0.400	0.026	0.016
11...	-54.6	-8.60	--	--	--	--	--	--	--	--	--
11...	-55.8	-8.55	--	--	0.023	2.90	<0.003	0.710	0.560	0.021	0.019
11...	-56.4	-8.42	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	0.005	0.230	<0.003	0.010	0.024	<0.004	E0.002
JUL											
02...	--	--	3.5	0.40	0.006	0.097	<0.003	0.029	0.028	0.012	E0.002
10...	--	--	--	--	0.006	0.130	<0.003	0.040	0.059	<0.009	0.007
AUG											
26...	--	--	--	--	--	--	--	--	--	--	--
SEP											
05...	--	--	6.0	0.50	<0.002	0.074	<0.003	0.074	0.010	<0.004	0.006

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT				
06...	0810	7.2	12	91
24...	1230	48	4	88
NOV				
15...	1000	176	6	96
DEC				
06...	1215	77	3	93
JAN				
19...	1430	e1500	821	87
MAR				
20...	1220	204	81	98
JUN				
03...	1520	14	30	85
10...	1215	114	98	98

E Estimate.
e Estimated daily.

HUDSON RIVER BASIN

01349150 CANAJOHARIE CREEK NEAR CANAJOHARIE, NY--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	21.0	11.5	14.5	6.5	5.5	6.0	2.0	.0	1.0	.0	.0	.0
2	18.5	12.0	14.5	8.5	6.0	7.5	2.0	.0	1.0	.0	.0	.0
3	21.5	13.0	15.5	9.5	8.5	9.0	.0	.0	.0	.0	.0	.0
4	17.0	15.0	15.5	8.5	5.0	6.5	2.0	.0	1.0	.0	.0	.0
5	15.5	15.0	15.5	6.0	3.5	4.5	1.5	.5	1.0	.5	.0	.0
6	15.0	14.0	14.5	5.5	3.0	4.0	1.0	.5	.5	.5	.0	.0
7	15.0	14.0	14.5	3.5	2.5	3.5	.5	.0	.0	.5	.0	.0
8	15.0	14.0	14.5	4.0	2.5	3.5	.0	.0	.0	.0	.0	.0
9	14.0	12.5	13.5	2.5	1.0	2.0	.5	.0	.0	.0	.0	.0
10	14.5	11.0	12.5	3.0	.5	1.5	.5	.0	.0	.0	.0	.0
11	15.0	12.0	13.0	7.5	2.5	4.5	.0	.0	.0	.0	.0	.0
12	16.5	12.0	13.5	7.5	3.0	4.5	.0	.0	.0	.0	.0	.0
13	17.0	12.5	14.5	3.0	2.0	2.5	.5	.0	.0	.0	.0	.0
14	15.0	13.0	14.0	3.0	1.5	2.5	.5	.0	.0	.0	.0	.0
15	14.5	12.0	14.0	4.0	1.5	2.5	.0	.0	.0	.0	.0	.0
16	12.0	10.5	11.0	---	---	---	.0	.0	.0	.0	.0	.0
17	11.0	8.5	9.5	---	---	---	.0	.0	.0	.0	.0	.0
18	10.0	9.0	9.5	---	---	---	.5	.0	.0	.0	.0	.0
19	12.0	9.0	10.5	---	---	---	.5	.0	.0	.0	.0	.0
20	12.5	10.0	11.5	---	---	---	.5	.0	.0	.0	.0	.0
21	13.5	11.5	13.0	---	---	---	.0	.0	.0	.0	.0	.0
22	11.5	9.5	10.5	4.0	2.5	3.0	.0	.0	.0	.0	.0	.0
23	11.5	9.5	10.5	2.5	2.0	2.5	.0	.0	.0	.5	.0	.0
24	16.0	9.5	11.0	2.5	.5	1.5	.0	.0	.0	1.5	.5	.5
25	13.5	10.5	11.5	.5	.0	.5	.0	.0	.0	.5	.0	.0
26	13.5	9.5	11.0	1.5	.0	1.0	.0	.0	.0	.0	.0	.0
27	11.5	9.0	10.0	3.0	1.5	2.5	.0	.0	.0	2.0	.0	.5
28	12.0	11.0	11.5	4.0	3.0	3.5	.0	.0	.0	.5	.0	.0
29	11.0	8.0	10.0	3.0	1.5	2.0	.0	.0	.0	.0	.0	.0
30	8.0	6.0	7.0	1.5	.0	.5	.0	.0	.0	.0	.0	.0
31	6.0	5.0	5.5	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	21.5	5.0	12.0	---	---	---	2.0	.0	.0	2.0	.0	.0

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

HUDSON RIVER BASIN

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01349150 CANAJOHARIE CREEK NEAR CANAJOHARIE, NY--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	22.5	14.5	18.5	27.0	21.0	23.5	21.5	18.0	19.5	25.0	20.0	22.5
2	24.0	17.0	20.5	27.5	22.5	25.0	24.5	18.5	21.5	26.0	21.0	23.0
3	23.0	18.5	19.5	26.0	22.0	23.5	24.5	20.0	22.0	27.0	21.5	24.0
4	22.0	17.5	19.5	22.0	19.0	20.0	23.0	18.5	20.5	24.0	22.0	23.0
5	23.0	18.5	20.5	23.5	17.0	20.0	27.0	20.5	23.5	24.5	21.5	23.0
6	24.0	18.0	21.0	24.0	19.0	21.5	28.5	21.5	24.5	26.0	23.0	24.0
7	23.5	20.0	21.5	27.0	21.0	24.0	28.5	23.0	25.5	24.5	21.0	22.5
8	21.5	20.0	20.5	26.5	23.5	25.0	27.0	24.5	25.5	23.0	20.5	21.5
9	23.5	19.5	21.0	26.5	22.5	24.5	25.5	22.5	24.0	22.5	21.5	22.0
10	22.0	19.0	20.0	24.5	21.0	22.5	25.0	20.0	22.0	25.0	21.0	22.5
11	23.5	20.0	21.5	25.5	19.5	22.5	25.0	19.0	22.0	23.5	21.5	22.5
12	26.0	21.5	23.5	26.0	21.5	24.0	23.5	20.0	21.5	24.0	21.0	22.0
13	25.0	22.0	23.0	25.0	18.0	22.0	25.5	20.0	22.5	21.5	19.0	20.5
14	25.5	20.5	23.0	20.5	17.0	18.5	26.0	20.5	23.5	22.5	18.0	20.0
15	27.5	21.0	24.0	20.5	19.0	20.0	25.5	21.5	24.0	20.5	18.5	19.0
16	27.0	21.5	24.0	23.0	19.0	21.0	26.0	22.5	24.5	20.0	18.0	19.0
17	27.0	23.0	25.0	25.5	21.0	23.0	25.0	21.5	23.5	19.0	17.0	18.0
18	26.0	23.0	24.0	28.0	21.0	24.0	25.5	20.5	23.5	18.0	16.0	17.0
19	24.0	20.0	21.5	25.5	21.5	24.0	26.0	21.0	24.0	18.5	14.5	16.5
20	20.5	19.0	19.5	22.0	18.5	20.0	26.0	22.0	24.0	18.5	14.5	17.0
21	21.5	19.5	20.5	24.0	17.5	20.5	28.0	24.0	25.5	19.5	16.0	17.5
22	22.0	19.0	20.5	26.0	18.5	22.0	27.0	23.0	25.0	17.5	15.0	16.0
23	25.0	19.0	22.0	24.5	20.5	22.0	25.0	23.0	24.0	16.0	15.0	15.5
24	24.0	20.5	22.0	26.5	20.0	23.0	27.0	23.5	25.0	15.0	12.0	13.5
25	23.5	21.0	22.5	26.0	22.0	24.5	26.0	21.5	24.0	15.0	13.5	14.0
26	23.5	19.0	21.5	25.5	21.0	23.0	27.5	22.5	24.5	14.5	11.5	13.0
27	24.5	19.5	22.5	22.5	19.5	20.5	25.5	23.0	24.0	14.5	13.5	14.0
28	26.5	21.5	24.0	25.0	18.0	21.5	26.0	23.0	---	16.0	14.5	15.0
29	25.5	23.0	23.5	23.0	19.5	21.5	25.0	21.5	23.5	17.0	14.5	15.5
30	23.0	21.5	22.0	22.0	20.0	20.5	24.5	21.5	22.5	16.5	13.5	15.0
31	---	---	---	20.0	18.5	19.5	24.0	20.0	22.0	---	---	---
MONTH	27.5	14.5	21.5	28.0	17.0	22.0	28.5	18.0	---	27.0	11.5	19.0

HUDSON RIVER BASIN

01349900 BATAVIA KILL NEAR ASHLAND, NY

LOCATION.--Lat 42°17'36", long 74°18'22", Greene County, Hydrologic Unit 02020005, on right bank 40 ft upstream from bridge on County Route 17, 0.2 mi south of State Highway 23, and 1.6 mi southeast of Ashland.

DRAINAGE AREA.--51.2 mi².

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

REVISED RECORDS.--WDR NY-93-1: 1992.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,440 ft above sea level, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow regulated to some extent at high flows by three flood-retardation reservoirs, combined drainage area of 19.2 mi². Seasonal diversion for snowmaking by Ski Windham ski area at Windham.

AVERAGE DISCHARGE.--5 years, 89.4 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 14,300 ft³/s, Jan. 19, 1996, gage height, about 15.5 ft, from rating curve extended above 2,200 ft³/s on basis of contracted-opening and flow-over-road measurement of peak flow at gage height 14.82 ft, and by runoff comparison of peak discharge from step-backwater analysis at site 6.6 mi downstream; minimum daily discharge, about 0.80 ft³/s, Aug. 31, 1995.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 12,700 ft³/s, Apr. 4, 1987, gage height, 14.82 ft, from floodmarks, from rating curve extended above 2,200 ft³/s on basis of contracted-opening and flow-over-road measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 14,300 ft³/s, Jan. 19, 1996, gage height, about 15.5 ft, from rating curve extended as explained above; minimum daily discharge, about 2.0 ft³/s, Oct. 2-3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e2.2	172	135	26	e120	96	91	445	41	29	34	6.6
2	e2.0	168	145	26	e80	83	117	242	38	26	31	6.1
3	e2.0	166	115	25	e60	79	105	196	38	31	27	5.7
4	e2.2	143	139	e25	e56	107	91	191	67	79	25	5.4
5	e3.0	120	115	e25	e52	73	83	179	63	68	40	5.4
6	e7.0	113	107	e25	e54	70	78	210	46	41	25	5.5
7	e5.0	108	e80	e25	e60	e68	81	190	43	34	16	7.1
8	e4.0	107	e66	e26	e64	e65	87	153	412	30	13	8.9
9	e3.2	94	e60	e26	e68	e65	80	133	284	28	48	8.8
10	e3.0	88	e54	e26	e72	e65	82	136	194	26	47	8.1
11	e3.0	92	e47	e24	e64	e62	80	325	167	24	27	7.3
12	e3.1	1730	e43	e24	e60	61	123	427	121	23	22	6.7
13	e6.0	713	42	e23	e47	67	181	250	107	1590	20	8.7
14	e4.4	412	40	e23	e40	69	370	196	124	1070	18	14
15	e4.0	447	49	e24	e38	108	227	166	88	651	16	10
16	e5.4	355	48	29	e40	106	506	144	71	434	15	8.7
17	e8.0	271	44	34	e38	89	358	131	62	185	15	97
18	e14	219	37	117	e35	87	234	236	56	118	13	1370
19	e29	200	34	e5000	e37	95	198	210	56	98	12	602
20	e80	186	e32	e800	e37	259	193	157	71	102	11	267
21	1130	184	e31	e460	239	188	198	139	60	73	10	104
22	998	167	e31	e310	215	139	179	130	51	59	9.6	79
23	625	133	e30	e240	192	107	220	107	45	51	9.2	157
24	532	111	e29	e380	211	91	259	93	39	46	12	117
25	282	93	e29	e400	167	106	184	80	39	40	11	94
26	207	92	e27	e200	129	192	162	71	35	84	9.7	79
27	168	91	e26	e1400	108	136	154	64	32	67	8.5	66
28	347	176	e25	e600	120	104	125	59	32	49	10	64
29	298	195	e26	e300	106	98	225	54	29	41	9.3	269
30	231	139	26	e210	---	92	409	50	29	38	8.0	136
31	195	---	26	e160	---	88	---	45	---	36	7.0	---
TOTAL	5203.5	7285	1738	11013	2609	3115	5480	5209	2540	5271	579.3	3624.0
MEAN	168	243	56.1	355	90.0	100	183	168	84.7	170	18.7	121
MAX	1130	1730	145	5000	239	259	506	445	412	1590	48	1370
MIN	2.0	88	25	23	35	61	78	45	29	23	7.0	5.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1996, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996
MEAN	44.1	106	92.2	169	52.7	149
MAX	168	243	132	355	90.0	202
(WY)	1996	1996	1995	1996	1996	1994
MIN	4.43	31.8	56.1	79.3	23.2	100
(WY)	1994	1995	1996	1994	1993	1996

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1991 - 1996
ANNUAL TOTAL	27869.36	53666.8	
ANNUAL MEAN	76.4	147	89.4
HIGHEST ANNUAL MEAN			147
LOWEST ANNUAL MEAN			53.3
HIGHEST DAILY MEAN	1730	Nov 12	5000
LOWEST DAILY MEAN	.80	Aug 31	2.0
ANNUAL SEVEN-DAY MINIMUM	.99	Aug 25	3.3
10 PERCENT EXCEEDS	182		274
50 PERCENT EXCEEDS	32		71
90 PERCENT EXCEEDS	2.2		9.5

e Estimated

01350000 SCHOHARIE CREEK AT PRATTSVILLE, NY

LOCATION.--Lat 42°19'10", long 74°26'13", Greene County, Hydrologic Unit 02020005, on left bank 100 ft upstream from bridge on State Highway 23 in Prattsville, 0.2 mi upstream from Schoharie Reservoir, 0.2 mi downstream from Huntersfield Creek, and 1.6 mi downstream from Batavia Kill.

DRAINAGE AREA.--237 mi².

PERIOD OF RECORD.--November 1902 to current year.

REVISED RECORDS.--WSP 1432: 1937-38. WDR NY-87-1: 1956(M), 1972(M), 1974-76(M), 1978(P), 1979(M), 1980(P), 1981(M), 1984(M). WDR NY-90-1: Drainage area.

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

REMARKS.--Records good except those for estimated daily discharges, which are poor. Seasonal diversion for snowmaking by Hunter Mountain ski area near Tannersville and Ski Windham ski area at Windham. Telephone gage-height telemeter at station.

AVERAGE DISCHARGE.--93 years, 461 ft³/s, 26.42 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 52,800 ft³/s, Jan. 19, 1996, gage height, 19.39 ft, from rating curve extended above 17,800 ft³/s on basis of contracted-opening measurements of peak flow at gage heights 18.37 ft and 19.14 ft; maximum gage height, 19.57 ft, Mar. 5, 1979 (ice jam); minimum daily discharge, 4.8 ft³/s, Sept. 22, 1964.

EXTREMES 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)
Oct. 21	1830	29,300	14.93	Apr. 16	1230	5,750	7.57
Nov. 12	0500	25,600	14.06	Apr. 30	2315	6,390	7.89
Jan. 19	1715	a*52,800	*19.39	July 13	1830	19,300	12.45
Jan. 24	2215	4,820	7.07	Sept. 18	0745	7,150	8.25
Jan. 27	1715	24,700	13.86				

a From rating curve extended as explained above.

Minimum daily discharge, 12 ft³/s, Oct. 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	570	503	e110	e700	e410	433	3490	186	107	211	40
2	13	602	545	e110	e400	e340	550	1730	164	92	202	38
3	12	689	446	e110	e290	e320	519	1250	155	170	170	35
4	16	565	517	e110	e270	e310	451	1110	295	359	157	33
5	23	454	440	e110	e250	e310	411	988	276	338	143	33
6	693	398	426	e110	e260	e290	376	1130	193	196	148	33
7	339	367	e340	e110	e280	e280	380	1030	200	146	111	40
8	177	399	e280	e120	e310	e270	419	820	1990	121	97	104
9	125	344	e250	e120	e340	e270	381	722	1490	106	203	87
10	97	294	e230	e120	e240	e270	387	711	1300	96	197	67
11	80	306	e200	e110	e180	e260	353	1560	1140	85	125	57
12	69	10200	e190	e100	e180	e250	462	2730	736	76	103	53
13	60	2680	e180	e100	e190	e270	762	1570	582	6430	94	51
14	61	1640	e170	e100	e180	e310	1970	1160	702	4520	86	84
15	511	2070	e210	e110	e190	e440	1270	940	484	2470	77	84
16	343	1550	e200	e130	e180	e400	3930	799	374	2210	72	69
17	220	1080	e180	e270	e190	459	2770	721	312	1140	70	79
18	165	858	e160	e800	e190	449	1560	1690	277	745	64	4320
19	136	776	e150	e22000	e170	471	1190	1390	268	599	59	1610
20	117	722	e140	7420	e270	1350	1160	927	339	597	54	788
21	9400	697	e140	3020	e2000	988	1290	777	299	418	51	402
22	5010	637	e140	2110	e1400	730	1110	725	240	323	50	295
23	1890	524	e140	1450	e1300	564	1390	583	209	270	48	507
24	1250	452	e140	2370	1380	464	1820	499	179	242	68	460
25	796	382	e140	2490	1120	470	1150	423	168	209	71	380
26	562	366	e140	1220	808	828	931	366	147	661	55	319
27	455	359	e130	9820	650	687	901	332	125	492	48	266
28	1930	535	e120	4630	670	541	728	293	128	329	53	233
29	1330	659	e120	1880	e530	507	1240	262	110	259	66	1600
30	877	515	e110	1320	---	464	2760	234	110	234	50	801
31	680	---	e110	967	---	433	---	212	---	217	43	---
TOTAL	27451	31690	7187	63547	15118	14405	33054	31174	13178	24257	3046	12968
MEAN	886	1056	232	2050	521	465	1102	1006	439	782	98.3	432
MAX	9400	10200	545	22000	2000	1350	3930	3490	1990	6430	211	4320
MIN	12	294	110	100	170	250	353	212	110	76	43	33
CFSM	3.74	4.46	.98	8.65	2.20	1.96	4.65	4.24	1.85	3.30	.41	1.82
IN.	4.31	4.97	1.13	9.97	2.37	2.26	5.19	4.89	2.07	3.81	.48	2.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 1996, BY WATER YEAR (WY)

	MEAN	296	485	523	473	452	867	1105	588	287	160	123	173
	MAX	2496	1526	1723	2210	1711	2804	3023	1738	1230	981	1190	1153
	(WY)	1956	1928	1974	1978	1981	1936	1958	1989	1972	1935	1955	1960
	MIN	8.50	17.7	72.5	49.2	39.0	247	264	84.2	37.9	11.1	10.6	6.15
	(WY)	1965	1965	1923	1931	1931	1937	1946	1905	1964	1965	1964	1964

e Estimated

HUDSON RIVER BASIN

01350000 SCHOHARIE CREEK AT PRATTSVILLE, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1903 - 1996	
ANNUAL TOTAL	142308.3		277075			
ANNUAL MEAN	390		757		462	
HIGHEST ANNUAL MEAN					873	1978
LOWEST ANNUAL MEAN					202	1985
HIGHEST DAILY MEAN	10200	Nov 12	22000	Jan 19	26200	Oct 16 1955
LOWEST DAILY MEAN	7.1	Sep 8	12	Oct 3	4.8	Sep 22 1964
ANNUAL SEVEN-DAY MINIMUM	8.2	Sep 3	36	Sep 1	5.3	Sep 18 1964
ANNUAL RUNOFF (CFSM)	1.65		3.19		1.95	
ANNUAL RUNOFF (INCHES)	22.34		43.49		26.51	
10 PERCENT EXCEEDS	784		1560		1040	
50 PERCENT EXCEEDS	195		335		220	
90 PERCENT EXCEEDS	14		75		31	

HUDSON RIVER BASIN

83

01350080 MANOR KILL AT WEST CONESVILLE NEAR GILBOA, NY

LOCATION.--Lat 42°22'37", long 74°24'48", Schoharie County, Hydrologic Unit 02020005, on right bank 50 ft south of County Highway 3, 0.5 mi east of West Conesville, 2.2 mi southeast of Gilboa, and 1.2 mi upstream from mouth.

DRAINAGE AREA.--32.4 mi².

PERIOD OF RECORD.--July 1986 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,255.95 ft above sea level.

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

AVERAGE DISCHARGE.--10 years, 46.7 ft³/s, 19.57 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,050 ft³/s, Jan. 19, 1996, gage height, 10.20 ft in gage well, 10.8 ft from floodmarks, from rating curve extended above 970 ft³/s on basis of slope-area measurement of peak flow at gage height 9.76 ft; maximum outside gage height, 10.9 ft from floodmarks, Apr. 4, 1987; minimum discharge, 1.0 ft³/s, Aug. 28, 29, 30, 31, Sept. 1, 2, 1993, Sept. 6, 7, 8, 1995; minimum gage height, 0.63 ft, Sept. 6, 7, 13, 1996.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 12	0430	1,420	4.94	Jan. 27	1745	981	4.04
Jan. 19	1730	a*5,050	b*10.20	July 13	1915	1,930	5.87

a From rating curve extended as explained above.

b Recorded in gage well; outside gage height was 10.8 ft, from floodmark.

Minimum discharge, 1.5 ft³/s, Oct. 1, 2-3, 4; minimum gage height, 0.63 ft, Sept. 6, 7, 13.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	54	82	e18	e68	e50	59	303	25	13	21	6.9
2	1.5	53	83	e17	e47	e45	74	177	22	11	21	6.6
3	1.5	51	70	e17	e36	e39	65	147	22	23	17	6.4
4	1.9	45	84	e17	e32	e36	57	168	31	80	17	6.4
5	3.1	40	70	e17	e30	e50	52	162	28	62	15	6.5
6	19	36	65	e17	e32	e38	48	211	21	31	13	6.2
7	9.9	34	56	e18	e35	e36	53	175	21	22	12	6.8
8	7.5	34	e47	e19	e37	e34	57	137	137	18	11	7.8
9	5.1	33	e41	e19	e40	e33	53	121	81	16	63	7.2
10	4.1	31	e37	e18	e40	e33	55	133	76	14	44	6.7
11	3.9	36	e32	e17	e38	e32	53	359	65	13	24	6.4
12	3.7	546	e30	e16	e36	e31	80	470	46	12	18	6.2
13	3.5	206	e29	e16	e33	e34	117	240	44	595	16	6.8
14	4.1	158	e28	e16	e31	e40	286	175	58	385	14	7.0
15	18	196	e34	e17	e29	e68	154	145	39	287	13	6.5
16	13	162	e34	e20	e28	e60	451	128	31	190	12	6.3
17	9.1	126	e29	e30	e29	e51	289	115	27	119	12	27
18	7.3	104	e26	e120	29	55	179	179	25	91	11	261
19	6.3	97	e23	e1800	59	61	146	142	27	81	10	83
20	5.4	93	e22	694	33	124	134	112	30	76	9.8	47
21	190	95	e21	276	103	105	127	101	30	53	9.2	34
22	185	87	e21	183	92	e76	116	91	25	41	8.8	30
23	82	74	e21	138	84	e58	148	77	21	36	9.2	60
24	56	65	e20	243	103	e55	161	67	18	32	11	41
25	45	57	e20	e190	83	72	123	56	17	28	9.6	36
26	39	54	e19	e120	68	116	111	48	15	43	8.7	30
27	34	52	e18	437	e62	e80	106	43	14	32	8.5	25
28	185	129	e17	e240	e58	e65	90	38	14	26	8.4	23
29	111	e110	e17	e150	e55	64	163	35	13	22	8.0	59
30	77	85	e18	e120	---	60	281	32	14	22	7.5	36
31	62	---	e18	e100	---	57	---	28	---	21	7.1	---
TOTAL	1195.4	2943	1132	5120	1450	1758	3888	4415	1037	2495	469.8	898.7
MEAN	38.6	98.1	36.5	165	50.0	56.7	130	142	34.6	80.5	15.2	30.0
MAX	190	546	84	1800	103	124	451	470	137	595	63	261
MIN	1.5	31	17	16	28	31	48	28	13	11	7.1	6.2
CFSM	1.19	3.03	1.13	5.10	1.54	1.75	4.00	4.40	1.07	2.48	.47	.92
IN.	1.37	3.38	1.30	5.88	1.66	2.02	4.46	5.07	1.19	2.86	.54	1.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1996, BY WATER YEAR (WY)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	
MEAN	25.0	49.1	42.1	54.9	39.7	83.5	137	69.1	23.9	17.2	7.50	10.9
MAX	100	98.1	57.0	165	116	140	297	152	70.7	80.5	15.2	46.2
(WY)	1988	1996	1991	1996	1990	1987	1993	1989	1989	1996	1996	1987
MIN	3.25	8.92	14.3	16.0	12.8	38.4	46.0	20.2	5.80	2.75	1.66	1.60
(WY)	1994	1995	1990	1989	1993	1989	1995	1995	1991	1993	1993	1995

e Estimated

HUDSON RIVER BASIN

01350080 MANOR KILL AT WEST CONESVILLE NEAR GILBOA, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1986 - 1996	
ANNUAL TOTAL	13375.3		26801.9			
ANNUAL MEAN	36.6		73.2		46.7	
HIGHEST ANNUAL MEAN					73.2 1996	
LOWEST ANNUAL MEAN					28.0 1995	
HIGHEST DAILY MEAN	546	Nov 12	1800	Jan 19	1800	Jan 19 1996
LOWEST DAILY MEAN	1.1	Sep 6	1.5	Oct 1	1.1	Aug 30 1993
ANNUAL SEVEN-DAY MINIMUM	1.2	Sep 2	4.6	Oct 8	1.2	Aug 27 1993
ANNUAL RUNOFF (CFSM)	1.13		2.26		1.44	
ANNUAL RUNOFF (INCHES)	15.36		30.77		19.60	
10 PERCENT EXCEEDS	90		162		109	
50 PERCENT EXCEEDS	22		37		22	
90 PERCENT EXCEEDS	1.7		8.6		3.5	

HUDSON RIVER BASIN

85

01350100 SCHOHARIE RESERVOIR NEAR GRAND GORGE, NY

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

DRAINAGE AREA.--315 mi².

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

REVISED RECORDS.--WDR NY-86-1: 1956 (maximum elevation). WDR NY-90-1: Drainage area.

GAGE.--Water-stage recorder. Supplementary nonrecording gage used for periods when reservoir elevation is below 1,072.50 ft. Datum of gage is sea level (levels by Board of Water Supply, City of New York).

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

COOPERATION.--Capacity table and once-daily nonrecording gage readings provided by Department of Environmental Protection, City of New York.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 1,136.68 ft, Jan. 19, 1996, contents, 22,235 mil gal; minimum observed (after initial filling), 1,062.00 ft, Aug. 20, 1970, contents, 1,520 mil gal.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,136.68 ft, Jan. 19, contents, 22,235 mil gal; minimum elevation, 1,082.12 ft, Oct. 5, contents, 5,473 mil gal.

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

1,063.0	1,670	1,120.0	16,100
1,080.0	4,970	1,133.0	20,700

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1083.46	1130.54	1130.39	1129.84	1130.28	1130.22	1130.23	1131.14	1129.56	1129.37	1130.25	1124.27
2	1083.13	1130.65	1130.35	1129.82	1130.26	1130.22	1130.27	1130.73	1128.97	1129.20	1130.14	1123.89
3	1082.77	1130.86	1130.27	1129.81	1130.21	1130.20	1130.27	1130.58	1128.44	1129.09	1130.05	1123.50
4	1082.47	1130.82	1130.41	1129.75	1130.17	1130.14	1130.24	1130.56	1128.53	1129.48	1129.98	1123.11
5	1082.19	1130.73	1130.40	1129.69	1130.15	1130.18	1130.23	1130.54	1128.85	1130.01	1129.92	1122.73
6	1082.78	1130.61	1130.37	1129.62	1130.15	1130.25	1130.21	1130.58	1128.98	1130.06	1129.87	1122.34
7	1084.21	1130.58	1130.33	1129.55	1130.13	1130.18	1130.21	1130.57	1129.00	1129.97	1129.77	1121.98
8	1084.57	1130.94	1130.26	1129.51	1130.16	1130.15	1130.24	1130.48	1130.40	1129.87	1129.62	1121.72
9	1084.61	1131.03	1130.23	1129.47	1130.20	1130.13	1130.22	1130.45	1130.67	1129.74	1129.64	1121.51
10	1084.55	1131.02	1130.21	1129.42	1130.17	1130.14	1130.23	1130.47	1130.58	1129.57	1129.98	1121.22
11	1084.47	1131.03	1130.14	1129.37	1130.18	1130.14	1130.22	1130.81	1130.70	1129.37	1129.94	1120.89
12	1084.34	1131.99	1130.11	1129.33	1130.15	1130.14	1130.25	1131.14	1130.56	1129.14	1129.81	1120.54
13	1084.18	1130.86	1130.10	1129.33	1130.08	1130.15	1130.35	1130.80	1130.48	1130.21	1129.65	1120.05
14	1084.00	1130.68	1130.10	1129.28	1130.07	1130.19	1130.70	1130.64	1130.55	1131.39	1129.47	1118.80
15	1084.43	1130.77	1130.14	1129.26	1130.08	1130.29	1130.54	1130.55	1130.44	1131.06	1129.27	1117.44
16	1085.41	1130.70	1130.17	1129.20	1130.05	1130.30	1131.00	1130.50	1130.34	1131.24	1129.04	1116.17
17	1085.84	1130.52	1130.15	1129.20	1130.01	1130.23	1130.94	1130.48	1130.28	1130.87	1128.80	1115.60
18	1086.06	1130.47	1130.11	1129.63	1130.00	1130.24	1130.63	1130.74	1130.22	1130.68	1128.54	1119.91
19	1086.15	1130.55	1130.08	1133.35	1129.97	1130.24	1130.51	1130.78	1130.18	1130.61	1128.26	1125.66
20	1086.16	1130.53	1130.05	1131.78	1130.01	1130.48	1130.49	1130.58	1130.19	1130.63	1127.97	1127.56
21	1091.50	1130.47	1130.01	1130.88	1130.50	1130.44	1130.55	1130.51	1130.17	1130.50	1127.67	1128.31
22	1116.44	1130.41	1130.01	1130.67	1130.53	1130.34	1130.53	1130.50	1130.11	1130.39	1127.36	1128.63
23	1122.76	1130.37	1130.01	1130.50	1130.48	1130.28	1130.64	1130.42	1130.06	1130.33	1127.06	1129.09
24	1125.93	1130.33	1130.00	1130.65	1130.50	1130.24	1130.81	1130.37	1130.01	1130.27	1126.84	1129.77
25	1128.02	1130.23	1130.00	1130.78	1130.44	1130.25	1130.61	1130.32	1129.97	1130.12	1126.59	1130.09
26	1129.25	1130.22	1129.99	1130.44	1130.35	1130.39	1130.53	1130.29	1129.91	1130.33	1126.31	1130.08
27	1130.06	1130.21	1129.96	1131.56	1130.29	1130.33	1130.55	1130.27	1129.81	1130.57	1125.98	1130.03
28	1130.87	1130.27	1129.94	1131.23	1130.30	1130.27	1130.48	1130.24	1129.73	1130.41	1125.65	1129.99
29	1130.93	1130.36	1129.92	1130.64	1130.28	1130.26	1130.57	1130.22	1129.61	1130.31	1125.35	1130.46
30	1130.69	1130.40	1129.89	1130.50	---	1130.24	1130.96	1130.17	1129.49	1130.26	1125.02	1130.34
31	1130.58	---	1129.87	1130.40	---	1130.23	---	1130.04	---	1130.25	1124.65	---
MEAN	1098.48	1130.64	1130.13	1130.14	1130.21	1130.24	1130.47	1130.53	1129.89	1130.17	1128.34	1124.19
MAX	1130.93	1131.99	1130.41	1133.35	1130.53	1130.48	1131.00	1131.14	1130.70	1131.39	1130.25	1130.46
MIN	1082.19	1130.21	1129.87	1129.20	1129.97	1130.13	1130.21	1130.04	1128.44	1129.09	1124.65	1115.60
+	19805	19739	19533	19711	19676	19672	20154	19525	19382	19684	17603	19684
++	+698	-3.40	-10.3	+8.88	-1.87	-0.20	+24.9	-31.4	-7.38	+15.1	-104	+107
CAL YR 1995	MEAN 1114.97	MAX 1131.99	MIN 1082.19	++ +15.4								
WTR YR 1996	MEAN 1126.91	MAX 1133.35	MIN 1082.19	++ +58.6								

+ Contents, in million gallons, at 2400 hours on last day of month.

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

NOTE: Mean elevations for Nov. 6-9, 16, 19-24, Nov. 27 to Dec. 1, and Dec. 4-6 computed based on observations at 0800 hours.

HUDSON RIVER BASIN

01350101 SCHOHARIE CREEK AT GILBOA, NY

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

DRAINAGE AREA.--316 mi².

PERIOD OF RECORD.--October 1975 to current year (since October 1983, discharges only for days of Schoharie Reservoir spill and since October 1989, discharges only for days of mean flow exceeding 10 ft³/s).

REVISED RECORDS.--WDR NY-90-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 939.56 ft above sea level.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Entire flow, runoff from 315 mi², except for periods of spill, diverted from Schoharie Reservoir through Shandaken Tunnel into Esopus Creek upstream from Ashokan Reservoir for water supply of city of New York.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 70,800 ft³/s, Jan. 19, 1996, gage height, 30.60 ft, outside gage height, 32.2 ft, from floodmark, from rating curve extended above 14,000 ft³/s on basis of flow-over-dam measurement of peak flow; minimum daily discharge, 0.04 ft³/s on many days, June to October 1976, and Sept. 11-13, 1980, but may have been lower since October 1983 (see PERIOD OF RECORD).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, about 65,000 ft³/s, Oct. 16, 1955, by computation of flow over dam; flood of Mar. 18, 1936, reached a discharge of 32,000 ft³/s, from information furnished by Bureau of Water Resources Development, City of New York.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 70,800 ft³/s, Jan. 19, gage height, 30.60 ft, outside gage height, 32.2 ft, from floodmark, from rating curve extended as explained above.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	728	626	---	1110	790	751	5220	---	---	261	---
2	---	582	692	---	1020	790	890	2630	---	---	161	---
3	---	838	533	---	886	730	870	1920	---	---	88	---
4	---	778	633	---	e700	512	774	1760	---	---	39	---
5	---	636	580	---	e680	648	713	1670	---	90	16	---
6	---	525	504	---	e640	882	673	1800	---	136	---	---
7	---	e250	431	---	e620	671	664	1780	---	56	---	---
8	---	e200	e320	---	e620	558	739	1400	1440	13	---	---
9	---	e280	e270	---	763	510	676	1230	1810	---	---	---
10	---	e290	e220	---	652	534	695	1190	1420	---	42	---
11	---	e290	172	---	649	530	634	2480	1630	---	28	---
12	---	e11100	169	---	600	526	745	4550	1140	---	---	---
13	---	e3500	e180	---	439	541	1150	2680	902	4660	---	---
14	---	e2300	199	---	473	642	2900	1930	1010	6870	---	---
15	---	e2550	171	---	e430	978	2090	1590	773	3210	---	---
16	---	e2100	210	---	e380	1050	4920	1360	595	3360	---	---
17	---	e1600	182	---	259	790	4460	1230	480	1820	---	---
18	---	e1000	141	45	195	782	2500	2380	400	1250	---	---
19	---	e970	109	27300	163	805	1870	2390	324	954	---	---
20	---	e1100	87	10700	203	1830	1720	1570	292	931	---	---
21	---	e980	59	4580	2230	1630	1850	1290	257	719	---	---
22	---	e830	52	3150	2230	1210	1670	1190	187	554	---	---
23	---	754	47	2140	1990	959	1890	929	109	450	---	---
24	---	603	41	3110	2050	803	2630	776	67	360	---	---
25	---	451	35	3940	1790	781	1810	634	30	175	---	239
26	---	409	29	1860	1340	1290	1450	547	12	407	---	251
27	107	385	16	9580	1110	1160	1420	484	---	714	---	191
28	2140	600	---	6880	1130	917	1190	439	---	496	---	123
29	1920	920	---	2960	1050	867	1500	377	---	376	---	1330
30	1270	684	---	2090	---	807	3490	298	---	311	---	905
31	896	---	---	1630	---	754	---	128	---	277	---	---
TOTAL	---	38233	---	---	26402	26277	49334	49852	---	---	---	---
MEAN	---	1274	---	---	910	848	1644	1608	---	---	---	---
MAX	---	11100	---	---	2230	1830	4920	5220	---	---	---	---
MIN	---	200	---	---	163	510	634	128	---	---	---	---

e Estimated

HUDSON RIVER BASIN

87

01350120 PLATTER KILL AT GILBOA, NY

LOCATION.--Lat 42°24'22", long 74°26'51", Schoharie County, Hydrologic Unit 02020005, on right bank, 0.2 mi downstream from County Highway 17, and 0.6 mi northwest of Gilboa.

DRAINAGE AREA.--10.9 mi².

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

REVISED RECORDS.--WDR NY-90-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,080 ft above sea level, from topographic map. Prior to October 1, 1990, at site 0.2 mi upstream at datum about 30 ft higher.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--21 years, 14.1 ft³/s, 17.57 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,370 ft³/s, Jan. 19, 1996, gage height, about 6.7 ft, from outside floodmark, from rating curve extended above 280 ft³/s on basis of flow-through-culvert measurement of peak flow; minimum discharge, 0.32 ft³/s, Nov. 18, 1980 (result of freezeup).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 19	unknown	a*1,370	b*6.7	No other peak greater than base discharge.			

a From rating curve extended as explained above.

b About; from outside floodmark.

Minimum discharge, 1.1 ft³/s, Oct. 2, gage height, 1.77 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	13	18	e6.5	e22	e16	e17	46	e12	4.6	e6.2	2.5
2	1.3	13	18	e6.2	e20	e15	e17	32	e10	4.5	e6.2	2.3
3	1.3	13	20	e6.2	e17	e14	21	27	e9.0	11	e6.0	2.2
4	1.8	12	20	e6.0	e15	e13	21	35	e9.0	17	e5.6	2.3
5	5.1	11	21	e6.0	e15	e12	e17	34	e11	16	e5.1	2.2
6	12	e10	20	e6.0	e16	e12	e15	41	e10	12	e4.8	2.1
7	4.8	e9.5	16	e6.2	e16	e12	e14	35	e9.0	8.0	e4.4	2.4
8	3.1	e9.5	14	e6.8	e16	e12	e17	27	28	5.0	4.0	2.9
9	2.3	e9.0	13	e6.8	e16	e11	e17	23	17	4.7	10	2.9
10	2.0	e8.8	e12	e6.5	e16	e11	e16	27	17	4.7	11	2.4
11	1.8	e9.2	e11	e6.0	e16	e11	e16	74	17	4.5	9.4	2.3
12	1.7	67	e10	e5.9	e15	e11	e17	85	15	4.4	7.3	2.2
13	1.6	26	e9.5	e5.9	e15	e10	24	53	15	43	5.3	2.7
14	2.3	22	e9.0	e6.0	e13	e11	44	43	16	39	4.1	2.8
15	6.0	25	e11	e6.2	e13	e13	29	33	14	28	3.8	2.2
16	3.3	22	e11	e6.8	e13	e19	65	27	e12	25	3.7	2.2
17	2.7	16	e9.5	e8.0	e13	e17	54	23	e11	14	3.7	5.3
18	2.5	14	e8.8	e14	e14	e15	40	36	e10	11	3.5	14
19	2.4	13	e8.2	e230	e21	e17	32	26	e9.8	12	3.6	9.2
20	2.4	13	e7.8	101	e17	e18	27	21	e10	11	4.0	4.4
21	21	13	e7.5	e43	e28	31	23	19	e11	12	3.9	3.8
22	21	14	e7.5	e30	e25	e26	21	17	e11	e12	3.9	5.0
23	14	19	e7.2	e27	e22	e20	28	16	e9.5	e10	3.7	7.1
24	13	19	e7.0	43	e26	e16	34	17	e8.2	e9.0	3.6	4.6
25	10	e17	e7.0	e34	e22	e18	24	17	e6.5	e11	3.9	4.5
26	9.8	e15	e6.8	e24	e20	e21	21	16	5.4	11	3.7	3.8
27	9.4	e15	e6.5	e34	e18	31	20	16	4.9	e12	3.5	3.6
28	20	18	e6.2	e40	e17	26	16	16	5.5	e9.5	3.4	3.3
29	17	16	e6.2	e33	e17	20	28	14	4.7	e7.8	3.1	7.4
30	14	21	e6.5	e28	---	e18	42	13	5.6	e6.8	2.9	3.8
31	14	---	e6.5	e24	---	e17	---	e12	---	e6.2	2.5	---
TOTAL	224.9	503.0	342.7	813.0	514	514	777	921	334.1	386.7	149.8	118.4
MEAN	7.25	16.8	11.1	26.2	17.7	16.6	25.9	29.7	11.1	12.5	4.83	3.95
MAX	21	67	21	230	28	31	65	85	28	43	11	14
MIN	1.3	8.8	6.2	5.9	13	10	14	12	4.7	4.4	2.5	2.1
CFSM	.67	1.54	1.01	2.41	1.63	1.52	2.38	2.73	1.02	1.14	.44	.36
IN.	.77	1.72	1.17	2.77	1.75	1.75	2.65	3.14	1.14	1.32	.51	.40

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

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	
MEAN	9.47	11.0	12.4	13.8	17.2	30.4	34.5	19.2	9.78	4.85	3.32	4.30											
MAX	53.0	36.0	28.2	48.4	46.4	75.5	96.8	40.6	23.6	12.5	8.66	26.0											
(WY)	1978	1978	1984	1978	1976	1979	1987	1984	1986	1996	1978	1977											
MIN	1.47	2.20	2.31	1.84	2.18	8.67	11.5	6.05	2.66	1.70	1.35	1.22											
(WY)	1984	1985	1983	1981	1980	1989	1985	1985	1995	1993	1993	1980											

e Estimated

HUDSON RIVER BASIN

01350120 PLATTER KILL AT GILBOA, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1975 - 1996
ANNUAL TOTAL	3381.6	5598.6	
ANNUAL MEAN	9.26	15.3	14.1
HIGHEST ANNUAL MEAN			26.6 1978
LOWEST ANNUAL MEAN			5.43 1985
HIGHEST DAILY MEAN	74 Mar 10	230 Jan 19	467 Mar 15 1986
LOWEST DAILY MEAN	1.2 Sep 5	1.3 Oct 1	.89 Sep 12 1980
ANNUAL SEVEN-DAY MINIMUM	1.3 Sep 2	2.1 Oct 8	.95 Aug 24 1980
ANNUAL RUNOFF (CFSM)	.85	1.40	1.29
ANNUAL RUNOFF (INCHES)	11.54	19.11	17.54
10 PERCENT EXCEEDS	18	28	32
50 PERCENT EXCEEDS	8.0	12	7.8
90 PERCENT EXCEEDS	1.4	3.4	1.7

HUDSON RIVER BASIN

89

01350140 MINE KILL NEAR NORTH BLENHEIM, NY

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

DRAINAGE AREA.--16.2 mi².

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

REVISED RECORDS.--WDR NY-90-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Concrete control since Sept. 23, 1975. Elevation of gage is 1,060 ft above sea level, from topographic map.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--21 years (water years 1976-96), 24.2 ft³/s, 20.29 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,550 ft³/s, Jan. 19, 1996, gage height, 5.20 ft, from floodmarks, from rating curve extended above 560 ft³/s on basis of step-backwater analysis of peak flow; minimum discharge, 0.10 ft³/s, Aug. 27, 28, 29, 30, 1980; minimum gage height, 0.48 ft, Aug. 31, Sept. 1, 2, 3, 1993.

EXTREMES 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)
Jan. 19	Unknown	a*2,550	b*5.20	No other peak greater than base discharge.			

a From rating curve extended as explained above.

b From floodmarks.

Minimum discharge, 0.50 ft³/s, Oct. 1, 2, 3, 4, gage height, 0.58 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.55	e20	27	e7.0	e40	46	27	e90	13	10	31	1.6
2	.55	e21	27	e7.2	e23	35	30	66	11	7.4	18	1.5
3	.51	e20	24	e7.4	e18	30	25	55	11	25	12	1.4
4	2.0	e18	28	e7.4	e16	e28	23	80	18	53	12	1.4
5	5.2	e17	23	e7.5	e15	e26	22	74	14	39	9.7	1.6
6	22	e15	22	e7.8	e15	43	20	97	11	20	7.9	1.6
7	10	e14	19	e8.0	e17	30	23	75	11	15	7.0	1.8
8	6.7	e14	e16	e8.5	e17	24	24	56	75	13	5.8	2.8
9	4.5	e13	e15	e8.5	e18	e22	23	48	85	11	28	2.1
10	3.2	e13	e14	e8.0	e18	e21	24	e60	69	9.2	19	1.8
11	e2.7	e17	e13	e7.6	e7.6	e21	23	e180	50	8.3	10	1.6
12	e2.4	e190	e13	e6.5	e16	e20	28	e160	35	7.8	7.8	1.4
13	e2.3	e90	e12	e6.2	e15	e20	52	92	34	e200	7.4	1.7
14	e2.4	e90	e12	e6.2	e14	47	101	73	49	93	6.1	3.2
15	e7.0	e96	e15	e6.2	e13	67	63	62	35	77	5.4	1.9
16	e6.0	e52	e15	e8.5	e13	47	e160	54	24	63	4.7	1.5
17	e5.0	e45	e13	e12	e12	43	121	48	21	45	4.5	12
18	e4.0	e39	e12	e78	e11	40	85	e120	21	35	10	41
19	e3.5	e35	e12	e700	e11	42	66	79	28	33	5.3	14
20	e3.3	e32	e9.8	e200	17	76	60	58	32	36	3.5	7.1
21	e94	e32	e9.5	e100	64	58	55	55	22	26	2.8	4.7
22	e92	e29	e9.0	e80	66	45	45	48	17	18	2.4	5.7
23	e50	e26	e9.0	e80	50	36	77	38	14	15	4.3	19
24	e30	e24	e9.0	e100	e42	33	e80	33	12	14	9.1	11
25	e17	e21	e8.8	e75	49	42	e40	28	11	12	4.2	13
26	e17	e19	e8.2	e54	38	68	47	27	9.4	28	2.8	8.7
27	e36	e19	e7.8	e160	35	39	47	24	7.9	18	2.6	6.7
28	e76	e54	e7.4	e90	49	32	35	20	11	12	4.4	6.3
29	e54	e33	e6.8	e60	39	31	e80	17	8.4	9.5	2.9	25
30	e42	28	e7.2	e51	---	29	e110	16	12	9.7	2.1	12
31	e27	---	e7.2	e46	---	27	---	15	---	16	1.7	---
TOTAL	628.81	1136	431.7	2004.5	758.6	1168	1616	1948	771.7	978.9	254.4	215.1
MEAN	20.3	37.9	13.9	64.7	26.2	37.7	53.9	62.8	25.7	31.6	8.21	7.17
MAX	94	190	28	700	66	76	160	180	85	200	31	41
MIN	.51	13	6.8	6.2	7.6	20	20	15	7.9	7.4	1.7	1.4
CFSM	1.25	2.34	.86	3.99	1.61	2.33	3.33	3.88	1.59	1.95	.51	.44
IN.	1.44	2.61	.99	4.60	1.74	2.68	3.71	4.47	1.77	2.25	.58	.49

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

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
MEAN	14.3	22.2	24.6	24.8	29.5	55.3	60.5	31.1	13.3	5.83	3.62	6.16										
MAX	67.3	48.6	59.7	74.3	86.5	126	242	76.9	36.0	31.6	12.1	42.3										
(WY)	1978	1978	1978	1979	1981	1977	1993	1984	1986	1996	1994	1977										
MIN	.36	3.62	5.79	1.77	1.25	20.8	19.9	7.19	.93	.53	.43	.26										
(WY)	1983	1983	1983	1981	1980	1989	1995	1995	1991	1993	1981	1982										

e Estimated

HUDSON RIVER BASIN

01350140 MINE KILL NEAR NORTH BLENHEIM, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1975 - 1996
ANNUAL TOTAL	6196.53	11911.71	
ANNUAL MEAN	17.0	32.5	24.2
HIGHEST ANNUAL MEAN			40.9
LOWEST ANNUAL MEAN			12.7
HIGHEST DAILY MEAN	190 Nov 12	700 Jan 19	1030 Mar 30 1993
LOWEST DAILY MEAN	.29 Sep 8	.51 Oct 3	.10 Aug 28 1980
ANNUAL SEVEN-DAY MINIMUM	.38 Sep 2	1.5 Aug 31	.11 Aug 24 1980
ANNUAL RUNOFF (CFSM)	1.05	2.01	1.49
ANNUAL RUNOFF (INCHES)	14.23	27.35	20.28
10 PERCENT EXCEEDS	40	76	56
50 PERCENT EXCEEDS	9.1	19	12
90 PERCENT EXCEEDS	.85	4.1	.95

01350180 SCHOHARIE CREEK AT NORTH BLENHEIM, NY

LOCATION.--Lat 42°27'57", long 74°27'45", Schoharie County, Hydrologic Unit 02020005, on left bank 2,300 ft upstream from West Kill, and 1.2 mi upstream from bridge on State Highway 30 in North Blenheim.

DRAINAGE AREA.--358 mi².

PERIOD OF RECORD.--October 1970 to current year (since January 20, 1996, discharges only for days of mean flow less than or equal to 400 ft³/s). Occasional measurements, water years 1969-70.

REVISED RECORDS.--WDR NY-87-1: 1984(M). WDR NY-90-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 800 ft above sea level, from topographic map. Prior to Oct. 1, 1971, at datum 1.00 ft higher.

REMARKS.--Records poor. Regulation of flow by Blenheim-Gilboa Pumped Storage Project immediately upstream from gage. Entire flow, runoff from 315 mi², except for periods of spill, diverted from Schoharie Reservoir through Shandaken Tunnel into Esopus Creek upstream from Ashokan Reservoir for water supply of City of New York. For periods of spill see station 01350101. The flood of January 19, 1996, caused flows greater than about 400 ft³/s to bypass the gage and therefore only flows less than or equal to 400 ft³/s are now published.

AVERAGE DISCHARGE.--25 years (water years 1971-1995), 388 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 75,600 ft³/s, Jan. 19, 1996, gage height, 17.61 ft, from floodmark, from rating curve extended above 12,000 ft³/s on basis of computation of peak flow through radial gates at gage heights 13.34 ft, 14.72 ft, and 16.70 ft; minimum discharge, no flow, Oct. 12, 15, Oct. 16 to Nov. 1, Nov. 2, 1972, Sept. 12, 13, 14, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 75,600 ft³/s, Jan. 19, gage height, 17.61 ft, from floodmark, from rating curve extended as explained above; minimum discharge, 3.3 ft³/s, Oct. 1, 2, gage height, 0.84 ft; minimum daily, 3.7 ft³/s, Oct. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	e800	e700	e7.0	---	---	---	---	e14	e11	e250	6.1
2	4.1	e640	e740	e6.8	---	---	---	---	e10	e11	e200	5.8
3	3.8	e900	e600	e6.8	---	---	---	---	e11	e11	e100	6.7
4	4.2	e820	e700	e6.8	---	390	---	---	e53	e190	e50	10
5	5.0	e700	e660	e7.0	---	---	---	---	e76	e150	25	6.7
6	6.0	e600	e560	e7.5	---	---	---	---	e24	e140	22	6.2
7	4.9	271	e480	e8.0	---	---	---	---	e11	e110	8.9	6.5
8	4.2	227	e390	e9.0	---	---	---	---	---	e30	8.7	5.8
9	6.2	307	e310	e11	---	255	---	---	---	e20	41	5.8
10	7.4	308	e250	e14	---	381	---	---	---	e15	102	6.0
11	7.3	315	e210	e16	---	---	---	---	---	e12	16	5.9
12	7.6	11400	e180	e19	---	365	---	---	---	e11	7.7	6.0
13	8.1	3630	e160	e27	152	347	---	---	---	---	7.6	6.4
14	8.7	2430	e210	62	289	---	---	---	---	---	7.7	6.2
15	7.9	2670	e220	34	295	---	---	---	---	---	8.0	5.4
16	7.5	2210	247	22	279	---	---	---	---	---	8.0	5.7
17	7.4	1640	195	44	162	---	---	---	---	---	8.3	7.2
18	7.5	1110	e120	135	101	---	---	---	e430	---	7.7	43
19	8.0	1020	e96	e29900	58	---	---	---	e370	---	7.0	57
20	8.4	1150	e80	---	193	---	---	---	e330	---	7.3	32
21	19	1050	e70	---	---	---	---	---	e310	---	7.6	7.8
22	258	894	e56	---	---	---	---	---	e220	---	7.8	7.0
23	91	661	e46	---	---	---	---	---	e140	e320	8.2	7.4
24	60	571	e40	---	---	---	---	---	e110	e380	8.4	6.7
25	45	340	e47	---	---	---	---	---	e52	e120	7.5	124
26	25	436	e50	---	---	---	---	401	e28	e300	6.7	228
27	130	415	e40	---	---	---	---	349	e12	---	7.1	103
28	e2200	e680	e26	---	---	---	---	351	e11	e360	7.1	100
29	e2000	e980	e15	---	---	---	---	e300	e11	e300	6.3	---
30	e1400	e860	e10	---	---	---	---	e220	e10	e200	6.6	---
31	e1000	---	e7.2	---	---	---	---	e160	---	e290	6.8	---
TOTAL	7355.9	40035	7515.2	---	---	---	---	---	---	---	973.0	---
MEAN	237	1334	242	---	---	---	---	---	---	---	31.4	---
MAX	2200	11400	740	---	---	---	---	---	---	---	250	---
MIN	3.7	227	7.2	---	---	---	---	---	---	---	6.3	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1996, BY WATER YEAR (WY)

	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	1996
MEAN	154	269	360	329	343	837	1366	704	249	58.2	11.5	20.3														
MAX	1474	1511	1522	1610	1468	2532	3685	1599	1561	452	31.4	140														
(WY)	1978	1978	1973	1979	1976	1979	1987	1984	1972	1973	1996	1977														
MIN	.15	4.56	4.88	6.17	15.5	47.6	42.9	16.8	8.37	6.83	1.53	.25														
(WY)	1973	1983	1983	1983	1987	1989	1981	1995	1991	1977	1973	1973														

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

WATER YEARS 1971 - 1996

ANNUAL TOTAL	85559.5		
ANNUAL MEAN	234		388
HIGHEST ANNUAL MEAN			834
LOWEST ANNUAL MEAN			21.7
HIGHEST DAILY MEAN	11400	Nov 12	29900
LOWEST DAILY MEAN	3.7	Sep 21	.00
ANNUAL SEVEN-DAY MINIMUM	3.9	Sep 27	.00
10 PERCENT EXCEEDS	700		1060
50 PERCENT EXCEEDS	23		27
90 PERCENT EXCEEDS	6.8		4.9

e Estimated

HUDSON RIVER BASIN

01350355 SCHOHARIE CREEK AT BREAKABEEN, NY

LOCATION.--Lat 42°32'13", long 74°24'39", Schoharie County, Hydrologic Unit 02020005, on left bank 100 ft downstream from bridge on State Highway 30, 0.9 mi north of Breakabeen, and 1.1 mi downstream from Keyser Kill.

DRAINAGE AREA.--444 mi².

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

REVISED RECORDS.--WDR NY-81-1: 1980(M). WDR NY-90-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 686.79 ft above sea level (Soil Conservation Service Benchmark).

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Regulation of flow by Blenheim-Gilboa Pumped Storage Project. Entire flow, runoff from 315 mi², except for periods of spill, diverted from Schoharie Reservoir through Shandaken Tunnel into Esopus Creek upstream from Ashokan Reservoir for water supply of City of New York. For periods of spill see station 01350101.

AVERAGE DISCHARGE.--21 years, 524 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 80,200 ft³/s, Jan. 19, 1996, gage height, 20.51 ft, recorded, 20.96 ft, from floodmarks, from rating curve extended above 20,000 ft³/s on basis of contracted-opening and flow-over-road measurement of peak flow at gage height about 19.5 ft; minimum discharge, 1.7 ft³/s, Oct. 14, 1980; minimum gage height, 0.25 ft, Sept. 26, 1985; minimum daily discharge, 5.8 ft³/s, Sept. 13, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 80,200 ft³/s, Jan. 19, gage height, 20.51 ft, 20.96 ft, from floodmarks, from rating curve extended as explained above; minimum discharge, 7.7 ft³/s, Oct. 2, 3, gage height, 0.75 ft; minimum daily discharge, 8.3 ft³/s, Oct. 2-3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	1020	1010	e70	e1000	e700	1010	6350	101	37	381	26
2	8.3	803	1120	e70	e800	e650	1170	3400	67	31	320	24
3	8.3	1080	829	e68	e700	e600	1180	2590	75	73	200	23
4	9.6	989	1060	e66	e600	e550	913	2490	83	358	227	23
5	16	797	957	e65	e500	e600	887	2460	132	310	129	25
6	76	745	792	e65	e450	e800	700	2660	78	184	108	23
7	52	449	692	e70	e400	e600	680	2700	55	153	80	22
8	32	276	540	e70	e450	e500	1090	2000	1670	81	70	25
9	23	497	e450	e70	e480	e400	768	1770	2590	53	148	24
10	21	405	e350	e70	e400	e380	907	1620	1840	45	235	23
11	19	471	e270	e69	e350	e400	867	4040	2080	38	101	21
12	17	12900	e240	e69	e300	e500	895	6620	1460	35	72	20
13	17	4460	e220	e70	e260	e500	1390	4000	1110	4590	65	21
14	18	3020	e240	e74	e240	e600	3900	2750	1230	9700	58	27
15	56	3240	e300	e80	e200	e900	2910	2220	858	3870	52	24
16	49	2890	e270	e100	e170	e850	5880	1930	685	4070	47	21
17	36	2260	e220	e140	e140	e850	6010	1730	572	2260	44	31
18	29	1670	e200	437	e120	1090	3480	2850	407	1520	40	247
19	25	1540	e180	31600	e100	1040	2600	3020	348	1310	36	143
20	23	1680	e160	17100	206	2300	2180	2120	340	1030	33	92
21	533	1570	e150	7140	2040	2240	2320	1770	329	913	31	53
22	809	1430	e140	4070	2520	1640	2230	1560	212	780	30	45
23	312	1120	e135	2810	2340	1200	2500	1270	112	416	28	94
24	188	970	e130	3500	2340	1040	3520	933	110	488	34	73
25	150	628	e110	4920	2260	1080	2420	852	102	172	30	152
26	116	736	e100	2410	1800	1770	1960	620	63	430	26	286
27	147	690	e95	8510	1250	1620	1790	566	50	966	24	184
28	2380	958	e90	9630	e1000	1220	1570	538	40	522	84	110
29	2400	1430	e80	4550	e800	1160	2110	403	36	397	49	1190
30	1670	953	e75	2500	---	1010	4130	322	37	290	34	1040
31	1210	---	e70	2180	---	1000	---	218	---	361	29	---
TOTAL	10459.0	51677	11275	102643	24216	29790	63967	68372	16872	35483	2845	4112
MEAN	337	1723	364	3311	835	961	2132	2206	562	1145	91.8	137
MAX	2400	12900	1120	31600	2520	2300	6010	6620	2590	9700	381	1190
MIN	8.3	276	70	65	100	380	680	218	36	31	24	20

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

	MEAN	284	440	388	506	464	1144	1723	873	289	104	29.4	51.5
MAX	1973	1909	1528	3311	1698	3354	4522	2206	1255	1145	91.8	341	
(WY)	1978	1978	1978	1978	1976	1979	1987	1996	1982	1996	1996	1977	
MIN	10.8	20.9	31.7	18.8	59.1	164	141	63.6	18.6	14.0	9.83	9.69	
(WY)	1983	1983	1983	1981	1992	1989	1981	1995	1991	1993	1980	1982	

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR			FOR 1996 WATER YEAR			WATER YEARS 1975 - 1996		
ANNUAL TOTAL	128795.8			421711.0					
ANNUAL MEAN	353			1152					
HIGHEST ANNUAL MEAN							524		
LOWEST ANNUAL MEAN							1152		
HIGHEST DAILY MEAN	12900			31600			1152		
LOWEST DAILY MEAN	7.3			8.3			89.9		
ANNUAL SEVEN-DAY MINIMUM	8.6			21			1996		
10 PERCENT EXCEEDS	1010			2620			1985		
50 PERCENT EXCEEDS	80			449			1370		
90 PERCENT EXCEEDS	11			31			90		
							15		

e Estimated

HUDSON RIVER BASIN

93

01351450 SCHOHARIE CREEK AT ESPERANCE, NY
(National water-quality assessment program station)

LOCATION.--Lat 42°45'39", long 74°15'21", Schoharie County, Hydrologic Unit 02020005, just downstream from bridge on U.S. Highway 20 at Esperance.

DRAINAGE AREA.--875 mi².

PERIOD OF RECORD.--Water years 1993 to current year.

CHEMICAL DATA: 1993 (c), 1994 (d), 1995 (c), 1996 (b).

MINOR ELEMENTS DATA: 1993 (a).

PESTICIDE DATA: 1993-94, 1996 (a).

ORGANIC DATA: OC--1993 (c), 1994 (d), 1995 (c), 1996 (b).

PCB--1993 (a).

PCN--1993 (a).

NUTRIENT DATA: 1993 (c), 1994 (d), 1995 (c), 1996 (b).

BIOLOGICAL DATA:

Bacteria--1993 (a).

Phytoplankton--1993 (a).

SEDIMENT DATA: 1993 (b), 1994 (d), 1995 (c), 1996 (b).

REMARKS.--Water-discharge data based on records obtained for Schoharie Creek at Burtonsville (station 01351500).

REVISIONS.--The pesticide data published in the 1994 annual data report (WDR NY-94-1) are republished here because many of the method detection limits were revised after reevaluation of method performance. Revised method detection limits are listed after the NAWQA section Introduction.

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)
JUN 07...	1330	0.021	0.024

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON- DUCT- PER ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT OF SATUR- ATION) (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT OF SATUR- ATION) (MG/L) (00301)	HARD- NESS TOTAL (MG/L CACO3) (00900)	CALCIUM DIS- SOLVED AS (MG/L AS CA) (00915)
APR 04...	1150	1880	147	7.8	5.0	5.0	742	11.8	95	--	--
16...	1300	8320	168	7.7	8.5	5.0	735	12.4	100	60	20
JUL 16...	1000	8090	145	7.3	24.5	19.5	747	10.8	121	59	20

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)
APR 04...	--	--	--	--	40	--	--	--	--
16...	2.4	7.4	21	0.4	0.90	44	11	12	<0.10
JUL 16...	2.1	4.8	15	0.3	1.0	47	7.7	5.7	<0.10

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHOSOLVED (MG/L AS P) (00671)
APR 04...	--	--	<0.010	0.470	<0.015	<0.20	<0.20	0.020	<0.010	<0.010
16...	92	89	<0.010	0.370	<0.015	0.40	0.20	0.090	0.010	<0.010
JUL 16...	77	81	0.010	0.280	0.030	0.30	0.30	0.030	<0.010	0.020

HUDSON RIVER BASIN

01351450 SCHOHARIE CREEK AT ESPERANCE, NY--Continued

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

DATE	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)
APR 04...	--	--	2.0	0.50	--	--	--	--	--	--
16...	150	12	2.9	1.0	--	--	--	--	--	--
JUL 16...	110	6.0	3.9	1.0	0.006	0.260	0.031	E0.023	0.083	0.012

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
APR 04...	1150	1880	34	74
16...	1300	8320	99	89
JUL 16...	1000	8090	90	89

E Estimate.

HUDSON RIVER BASIN

95

01351500 SCHOHARIE CREEK AT BURTONSVILLE, NY

LOCATION.--Lat 42°48'00", long 74°15'48", Schenectady County, Hydrologic Unit 02020005, on right bank 0.4 mi south of Burtonsville, 2.7 mi north of Esperance, and 14.9 mi upstream from mouth.

DRAINAGE AREA.--886 mi².

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

REVISED RECORDS.--WDR NY-82-1: 1981(average discharge). WDR NY-90-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 507.98 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Regulation of flow by Blenheim-Gilboa Pumped Storage Project. Entire flow, runoff from 315 mi², except for periods of spill, diverted from Schoharie Reservoir through Shandaken Tunnel into Esopus Creek upstream from Ashokan Reservoir for water supply of City of New York. For periods of spill see station 01350101. Telephone gage-height telemeter at station.

AVERAGE DISCHARGE.--57 years, 1,020 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 81,600 ft³/s, Jan. 20, 1996, gage height, 12.88 ft; minimum, 2.4 ft³/s, Sept. 24, 25, 1964, gage height, 0.30 ft.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 81,600 ft³/s, Jan. 20, gage height, 12.88 ft; minimum, 7.7 ft³/s, Oct. 3, 4, gage height, 0.50 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	1400	1550	e350	2310	e1300	1620	11000	369	152	1080	105
2	9.2	1270	1890	e350	e1300	e1000	1970	6150	265	146	925	91
3	8.3	1320	1560	e360	e900	e960	2060	4500	236	145	688	81
4	9.7	1490	1580	e370	e800	e940	1850	4150	290	506	860	71
5	11	1250	1700	e380	e740	e900	1520	5100	329	1270	648	69
6	31	1030	1560	e380	e780	e880	1500	5360	302	673	488	67
7	140	991	e1200	e370	e820	e860	1400	5750	252	444	408	65
8	129	706	e940	e410	e900	e820	e1600	4000	1150	350	355	68
9	82	762	e840	e420	e1000	e800	e1400	3370	4550	255	434	75
10	58	700	e780	e410	e740	e800	e1400	3110	2860	304	862	80
11	43	734	e680	e370	e580	e780	e1300	6750	2870	234	578	78
12	36	12800	e640	e350	e530	e760	1540	15600	2090	176	360	70
13	31	8860	e600	e340	e560	e820	2250	8650	1640	4190	300	66
14	30	4680	e570	e340	e530	e920	7840	5310	2820	21500	262	83
15	60	4650	e680	e350	e560	e1200	5920	3970	1620	8350	234	85
16	138	5100	e640	e380	e530	e1500	8650	3310	1080	7870	211	78
17	130	3700	e600	e450	e560	e1700	11800	2950	901	4210	195	79
18	95	2870	e530	e1100	e560	e1800	6380	3060	818	2730	185	692
19	75	2440	e500	19800	e500	2300	4480	4890	644	2180	166	786
20	57	2550	e470	48800	e490	4640	3740	3220	756	2620	148	413
21	638	2670	e470	12200	2180	5120	3630	2500	613	1610	139	281
22	5050	2570	e470	7220	4440	3380	3560	2320	605	1200	124	209
23	1770	2110	e470	4860	3810	2540	5930	1780	391	1020	124	247
24	979	1710	e470	5120	3980	2000	6750	1540	307	810	122	315
25	698	1380	e470	9130	4160	1770	4670	1140	292	761	120	262
26	525	1190	e470	4510	e2500	3320	3710	1060	255	2050	108	344
27	413	1210	e440	6470	e1900	3180	3280	1000	210	2090	98	419
28	1790	1350	e400	16700	e2000	2210	2840	825	180	1350	206	298
29	3710	2140	e400	7580	e1600	2020	3420	774	163	914	272	729
30	2380	1860	e370	4430	---	1860	7400	698	150	828	182	1660
31	1800	---	e370	3450	---	1710	---	510	---	735	129	---
TOTAL	20936.2	77493	24310	157750	42260	54790	115410	124347	29008	71673	11011	7966
MEAN	675	2583	784	5089	1457	1767	3847	4011	967	2312	355	266
MAX	5050	12800	1890	48800	4440	5120	11800	15600	4550	21500	1080	1660
MIN	8.3	700	370	340	490	760	1300	510	150	145	98	65

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

	MEAN	404	739	953	979	1039	2338	3109	1578	626	231	115	155
MAX	5181	3414	3397	5089	4069	6627	8446	4045	3384	2312	1159	2330	
(WY)	1956	1978	1973	1996	1976	1979	1993	1984	1972	1996	1955	1960	
MIN	4.07	40.3	68.5	71.3	108	525	356	140	48.8	19.4	8.26	4.90	
(WY)	1965	1942	1965	1981	1940	1981	1946	1941	1964	1959	1965	1964	

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1940 - 1996

ANNUAL TOTAL	271861.2	736954.2	
ANNUAL MEAN	745	2014	1021
HIGHEST ANNUAL MEAN			2014
LOWEST ANNUAL MEAN			320
HIGHEST DAILY MEAN	12800	Nov 12	48800
LOWEST DAILY MEAN	8.3	Oct 3	8.3
ANNUAL SEVEN-DAY MINIMUM	10	Sep 29	31
10 PERCENT EXCEEDS	1890		4730
50 PERCENT EXCEEDS	300		834
90 PERCENT EXCEEDS	17		121

e Estimated

HUDSON RIVER BASIN

01356190 LISHA KILL NORTHWEST OF NISKAYUNA, NY
(National water-quality assessment program station)

LOCATION.--Lat 42°47'00", long 73°51'27", Schenectady County, Hydrologic Unit 02020004, on left bank 20 ft downstream from culvert on U.S. Route 7, 5.6 mi east of Schenectady, and 1.0 mi upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--15.6 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1993 to current year.

GAGE.--Water-stage recorder. Datum of gage is 250 ft above sea level, from topographic map.

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

AVERAGE DISCHARGE.--3 years, 16.1 ft³/s, 14.02 in./yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 662 ft³/s, Jan. 19, 1996; maximum gage height, 6.36 ft, Jan. 19, 1996 (ice jam); minimum discharge, 0.17 ft³/s, Aug. 28, 31, 1995, gage height, 0.05 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 230 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 21	2030	385	3.37	Feb. 21	1930	256	3.16
Jan. 19	1445	ice jam	*6.36	May 12	0645	282	3.32
Jan. 19	2300	*662	5.22	July 13	1830	425	4.12
Jan. 27	1930	239	3.05				

Minimum discharge, 0.64 ft³/s, Oct. 2, 3, gage height, 0.16 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.75	10	e15	e5.8	e14	19	17	113	8.8	5.7	14	2.3
2	.66	15	e17	e5.6	e12	15	30	43	7.9	4.0	13	2.1
3	.68	15	e15	e5.5	e10	e12	21	32	9.3	17	12	1.8
4	2.0	11	e16	e5.4	e8.0	e11	18	50	33	32	12	1.8
5	7.6	8.2	e14	e5.4	e7.8	e10	16	51	26	19	7.7	2.4
6	98	7.2	e12	e5.5	e7.8	e9.8	14	60	12	9.0	6.4	2.0
7	17	6.8	e10	e5.6	e8.4	e9.4	17	44	12	7.0	5.5	2.0
8	7.9	9.9	e9.0	e5.8	e9.0	e9.0	35	31	41	5.7	5.1	4.4
9	3.8	e7.0	e9.0	e6.0	e10	e8.8	26	26	40	5.0	33	19
10	2.7	e6.0	e9.4	e6.0	e13	e8.8	19	29	23	4.6	19	7.8
11	2.0	e7.0	e9.0	e5.8	e12	e9.0	16	101	17	3.1	8.9	4.8
12	1.7	e130	e8.4	e5.6	e11	e10	15	193	13	2.4	6.8	3.8
13	1.4	e50	e8.0	e5.4	e9.0	e13	21	75	23	190	5.9	7.4
14	3.3	e35	e8.4	e5.4	e7.0	e25	87	41	26	127	4.9	12
15	50	e48	e9.2	e5.6	e6.8	e22	37	32	14	52	4.5	5.4
16	9.7	e40	e9.0	e6.6	e6.4	e20	88	38	10	37	4.3	4.1
17	4.6	e30	e8.8	e10	e6.2	e18	69	42	8.4	21	5.4	11
18	4.2	e22	e8.6	e70	e6.0	e25	35	44	7.4	15	3.5	31
19	3.0	e24	e8.2	e350	e6.6	e30	27	46	8.1	21	3.0	14
20	2.0	e28	e8.0	250	e8.0	52	23	32	40	22	2.8	8.0
21	112	e24	e7.8	85	149	51	21	26	41	13	11	5.6
22	117	e22	e7.6	41	112	35	24	23	16	9.8	5.0	6.2
23	27	e18	e7.4	30	51	25	65	18	12	9.0	11	16
24	14	e15	e7.2	51	56	20	60	16	8.9	8.5	17	8.8
25	10	e13	e7.0	61	35	22	33	14	7.8	12	11	9.5
26	8.6	e12	e6.8	49	24	34	28	13	6.2	66	5.8	6.4
27	7.1	e13	e6.8	97	21	22	25	12	5.1	26	4.6	5.4
28	78	e25	e6.6	89	e21	18	20	11	4.7	14	10	8.2
29	28	e20	e6.4	46	e20	19	61	11	4.1	11	5.2	44
30	15	e16	e6.2	28	---	18	101	10	7.0	9.5	3.5	15
31	11	---	e6.0	e18	---	17	---	10	---	11	2.7	---
TOTAL	650.69	688.1	287.8	1366.0	668.0	617.8	1069	1287	492.7	789.3	264.5	272.2
MEAN	21.0	22.9	9.28	44.1	23.0	19.9	35.6	41.5	16.4	25.5	8.53	9.07
MAX	117	130	17	350	149	52	101	193	41	190	33	44
MIN	.66	6.0	6.0	5.4	6.0	8.8	14	10	4.1	2.4	2.7	1.8
CFSM	.82	.90	.36	1.72	.90	.78	1.39	1.62	.64	.99	.33	.35
IN.	.95	1.00	.42	1.98	.97	.90	1.55	1.87	.72	1.15	.38	.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1996, BY WATER YEAR (WY)

	9.30	13.9	12.5	25.1	14.8	28.6	36.5	20.6	9.44	11.1	6.09	4.35
MEAN	9.30	13.9	12.5	25.1	14.8	28.6	36.5	20.6	9.44	11.1	6.09	4.35
MAX	21.0	22.9	19.2	44.1	23.0	41.8	61.5	41.5	16.4	25.5	8.53	9.07
(WY)	1996	1996	1994	1996	1996	1994	1994	1996	1996	1996	1996	1996
MIN	3.05	4.05	8.96	13.8	7.03	19.9	12.3	5.58	4.28	1.48	2.33	1.92
(WY)	1995	1995	1995	1994	1995	1996	1995	1995	1995	1995	1995	1995

e Estimated

HUDSON RIVER BASIN

97

01356190 LISHA KILL NORTHWEST OF NISKAYUNA, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1993 - 1996
ANNUAL TOTAL	3957.49	8453.09	
ANNUAL MEAN	10.8	23.1	16.1
HIGHEST ANNUAL MEAN			23.1 1996
LOWEST ANNUAL MEAN			7.74 1995
HIGHEST DAILY MEAN	130 Nov 12	350 Jan 19	350 Jan 19 1996
LOWEST DAILY MEAN	.17 Aug 28	.66 Oct 2	.17 Aug 28 1995
ANNUAL SEVEN-DAY MINIMUM	.18 Aug 24	2.1 Sep 1	.18 Aug 24 1995
ANNUAL RUNOFF (CFSM)	.42	.90	.63
ANNUAL RUNOFF (INCHES)	5.75	12.28	8.53
10 PERCENT EXCEEDS	24	50	37
50 PERCENT EXCEEDS	7.1	12	7.8
90 PERCENT EXCEEDS	.49	4.6	1.6

HUDSON RIVER BASIN

01356190 LISHA KILL NORTHWEST OF NISKAYUNA, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1993 to current year.

CHEMICAL DATA: 1993 (c), 1994-95 (e).

MINOR ELEMENTS DATA: 1993 (a).

PESTICIDE DATA: 1993 (a), 1994 (d), 1995 (e).

ORGANIC DATA: OC--1993 (c), 1994-95 (e).

PCB--1993 (a).

PCN--1993 (a).

NUTRIENT DATA: 1993 (c), 1994-95 (e).

BIOLOGICAL DATA:

Bacteria--1993 (a).

Phytoplankton--1993 (a).

SEDIMENT DATA: 1993 (c), 1994-95 (e).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: August 1993 to current year.

INSTRUMENTATION.--Water-temperature recorder provides 15-minute-interval readings.**REMARKS.**--Interruption of record was due to malfunction of recording instrument.**EXTREMES FOR PERIOD OF DAILY RECORD.**--

WATER TEMPERATURES: Maximum recorded (water years 1994-96), 28.5°C, July 14, 15, Aug. 1, 1995; minimum (water years 1994-96), 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 24.0°C, Aug. 6, 7; minimum, 0.0°C on many days during winter period.

REVISIONS.--The pesticide data published in the 1994 annual data report (WDR NY-94-1) are republished here because many of the method detection limits were revised after reevaluation of method performance. The pesticide data from the 1995 water year have not been previously published. Revised method detection limits are listed after the NAWQA section Introduction.

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	ATRA-	CAR-	DEETHYL				METRI-	MOL-	PRO-	SI-
		ZINE,	BARYL	CHLOR-	ATRA-	DI-	METO-	BUZIN	INATE	METON,	MAZINE,
		WATER,	WATER	PYRIFOS	ZINE,	AZINON,	LACHLOR	SENCOR	WATER	WATER,	WATER,
		DISS,	FLTRD	DIS-	WATER,	DIS-	WATER	WATER	FLTRD	DISS,	DISS,
REC	0.7 U	SOLVED	REC	SOLVED	SOLVED	DISSOLV	DISSOLV	0.7 U	REC	REC	
(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
(39632)	(82680)	(38933)	(04040)	(39572)	(39415)	(82630)	(82671)	(04037)	(04035)		
MAR											
14...	1030	<0.001	<0.003	<0.004	<0.002	<0.002	0.004	<0.004	<0.004	<0.018	<0.005
APR											
11...	1000	0.006	<0.003	<0.004	<0.002	0.006	<0.002	<0.004	<0.004	<0.018	<0.005
*11...	1008	0.006	<0.003	<0.004	<0.002	<0.002	<0.002	<0.004	<0.004	<0.018	<0.005
26...	1220	<0.001	<0.003	<0.004	<0.002	0.049	<0.002	<0.004	<0.004	<0.018	<0.005
MAY											
03...	1100	<0.001	<0.003	0.009	<0.002	--	0.003	<0.004	<0.004	<0.018	<0.005
09...	1240	<0.001	<0.003	<0.004	<0.002	<0.002	<0.002	<0.004	<0.004	0.071	<0.005
18...	1145	<0.001	E0.012	<0.004	<0.002	0.070	0.007	<0.004	<0.004	<0.018	<0.005
24...	1100	<0.001	E0.056	<0.004	<0.002	0.039	<0.002	<0.004	<0.004	<0.018	<0.005
*24...	1109	<0.001	E0.046	<0.004	<0.002	0.036	0.003	<0.004	<0.004	<0.018	<0.005
31...	1300	0.007	<0.003	<0.004	<0.002	0.026	0.005	0.013	<0.004	<0.018	<0.005
JUN											
06...	1040	<0.001	<0.003	<0.004	<0.002	0.024	0.003	<0.004	<0.004	<0.018	<0.005
*06...	1047	<0.001	<0.003	<0.004	<0.002	0.019	<0.002	<0.004	<0.004	<0.018	<0.005
13...	1440	0.016	<0.003	<0.004	<0.002	0.065	0.008	<0.004	0.016	<0.018	<0.005
23...	1100	0.014	E0.044	<0.004	E0.002	0.039	0.007	<0.004	<0.004	0.024	<0.005
*23...	1109	0.013	E0.062	<0.004	E0.003	0.041	0.007	<0.004	<0.004	0.023	<0.005
29...	1450	0.024	E0.110	<0.004	E0.003	0.071	0.021	<0.004	<0.004	0.024	0.013
JUL											
05...	1230	0.030	E0.190	<0.004	E0.002	0.042	0.018	<0.004	<0.004	<0.018	<0.005
AUG											
22...	1440	0.007	E0.280	<0.004	<0.002	<0.002	--	<0.004	<0.004	<0.018	0.008
SEP											
19...	1200	<0.001	E0.029	<0.004	<0.002	0.030	<0.002	<0.004	<0.004	<0.018	<0.005

* Replicate sample
E Estimate.

01356190 LISHA KILL NORTHWEST OF NISKAYUNA, NY--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
OCT											
17...	1210	<0.002	<0.001	E0.025	<0.002	0.031	<0.002	<0.004	<0.004	<0.018	<0.007
NOV											
07...	1140	<0.002	<0.001	E0.013	<0.002	0.029	<0.002	<0.004	<0.004	<0.018	<0.007
DEC											
05...	1030	<0.002	<0.001	E0.015	<0.002	<0.002	<0.002	<0.004	<0.004	<0.018	<0.007
JAN											
30...	1210	<0.002	<0.001	E0.008	<0.002	<0.020	<0.002	<0.004	<0.004	<0.018	<0.007
FEB											
13...	1150	<0.002	<0.001	<0.003	<0.002	<0.002	<0.002	<0.004	<0.004	<0.018	<0.007
MAR											
06...	1120	<0.002	0.009	<0.003	<0.002	0.013	0.005	<0.004	<0.004	<0.018	<0.007
APR											
18...	0930	<0.002	<0.001	<0.003	<0.002	0.020	<0.002	<0.004	<0.004	<0.018	<0.007
MAY											
12...	1250	<0.002	0.006	E0.054	<0.002	0.130	0.009	<0.004	<0.004	<0.018	<0.007
24...	1420	<0.002	0.018	E0.082	<0.002	--	0.006	<0.004	<0.004	<0.018	<0.007
31...	1435	<0.002	0.025	<0.003	<0.002	--	0.018	0.029	<0.004	<0.018	<0.007
JUN											
06...	1405	<0.002	0.026	E0.049	<0.002	--	0.023	0.024	<0.004	<0.018	<0.007
14...	1450	<0.002	0.028	E0.250	E0.006	--	0.022	<0.004	<0.004	<0.018	<0.007
23...	1115	<0.002	0.110	<0.003	E0.002	--	--	<0.004	<0.004	--	<0.007
29...	1100	<0.002	0.031	E0.046	E0.004	--	0.008	<0.004	<0.004	<0.018	<0.007
JUL											
06...	1325	0.008	0.025	E0.033	E0.005	--	0.005	<0.004	<0.004	<0.018	<0.007
07...	1330	<0.002	0.014	E0.860	E0.004	--	0.007	<0.004	0.006	0.022	<0.007
12...	1210	<0.002	0.019	E0.057	E0.006	--	--	<0.004	<0.004	<0.018	<0.007
19...	1000	<0.002	0.014	E0.120	E0.007	--	0.008	<0.004	<0.004	<0.018	<0.007
25...	1140	<0.002	<0.001	E0.120	<0.002	0.130	0.007	<0.004	<0.004	0.018	<0.007
AUG											
02...	1215	<0.002	0.004	<0.003	<0.002	0.022	--	<0.004	<0.004	<0.018	<0.007
09...	1130	<0.002	<0.001	E0.020	<0.002	--	<0.002	<0.004	<0.004	<0.018	E0.023
SEP											
06...	1210	<0.002	0.003	E0.200	<0.002	0.550	0.002	<0.004	<0.004	<0.018	<0.007

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

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

E - Estimate.

HUDSON RIVER BASIN

01356190 LISHA KILL NORTHWEST OF NISKAYUNA, NY--Continued

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

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

HUDSON RIVER BASIN

101

01357500 MOHAWK RIVER AT COHOES, NY
(National water-quality assessment program station)

LOCATION.--Lat 42°47'07", long 73°42'29", Albany County, Hydrologic Unit 02020004, on right bank at Niagara Mohawk Power Corp. School Street powerplant in Cohoes, and 2.0 mi upstream from mouth. Water-quality sampling site at bridge on State Highway 32, 0.75 mi below gage.
DRAINAGE AREA.--3,450 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1917 to current year. Prior to July 17, 1925, published as "at Crescent Dam".
REVISED RECORDS.--WSP 1302: 1919-23 (M). WDR NY-90-1: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 49.13 ft above sea level. Dec. 1, 1917, to July 16, 1925, water-stage recorder at site 1.7 mi upstream at Crescent Dam at datum 130.87 ft higher. July 17 to Oct. 19, 1925, powerplant gage at present site.
REMARKS.--Records good except those below 1,000 ft³/s, which are fair, and those for estimated daily discharges, which are poor. Total flow of Mohawk river equals flow published at Cohoes which includes small diversion for Cohoes water supply, plus flow diverted at Crescent Dam to Barge Canal through Lock 6 (see 01357499 Diversion from Mohawk River at Crescent Dam). Prior to 1926 records published as total flow. See Diversions in Hudson River Basin for regulation and diversions upstream from this station. Telephone gage-height telemeter at station.
COOPERATION.--Diversions through Barge Canal at Lock 6 provided by New York State Department of Transportation.
AVERAGE DISCHARGE.--7 years (water years 1919-25), 5,820 ft³/s, includes diversion at Lock 6; 71 years (water years 1926-96), 5,662 ft³/s, unadjusted.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 143,000 ft³/s, Mar. 6, 1964, result of release from ice jam, gage height, 23.15 ft, from rating curve extended above 110,000 ft³/s; minimum discharge (water years 1918-90), 6 ft³/s, Sept. 18, 1941, gage height, 3.40 ft; minimum daily discharge, 23 ft³/s, Aug. 24, 1941.
EXTREMES OUTSIDE PERIOD OF RECORD.--An extreme flood occurred sometime from 1860-65 with a depth of 12 ft on the Cohoes dam and a peak discharge estimated to be at least 200,000 ft³/s (from New York State Museum Bulletin 85).
EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 41,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 20	0915	*132,000	*22.68	May 12	2000	45,700	17.47

Minimum discharge not determined; minimum gage height, 4.72 ft, Oct. 13, 20; minimum daily discharge, 544 ft³/s, Oct. 2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	661	5600	8830	2620	6820	8000	6630	27500	1790	1520	3830	1310
2	544	5340	7820	2360	5930	6740	7800	23900	1960	1350	3410	1280
3	632	6110	6070	2160	5080	5970	8040	18400	2420	1700	2840	1540
4	947	8080	6350	e2100	4920	5230	7480	15100	2040	2250	2580	1480
5	1040	7910	7940	e2100	3290	4130	6770	15100	1940	7580	2390	1060
6	2130	6710	7210	e2000	4000	4550	6200	14300	1930	6710	2050	756
7	2610	5390	5750	e1900	3960	5600	5910	14200	2180	1920	1380	1000
8	3360	5710	4520	e2000	3870	4470	6500	6600	3260	2430	1580	1010
9	933	4290	4370	e2200	4000	4490	7120	5610	6410	1840	4000	1350
10	2020	5170	3090	2500	5030	4990	6870	6820	9440	2140	3180	1710
11	1260	4770	2780	2210	5870	5090	6440	12300	8670	2300	2650	1880
12	1460	19800	2980	2120	5560	5350	5440	39000	8850	1580	2090	1770
13	1040	30000	3160	2070	4900	5410	6060	34400	7770	4000	1440	1630
14	856	17500	3300	2480	4140	5920	13500	22300	7710	30000	1930	1850
15	5100	16900	2290	2370	4160	5980	19100	16100	6910	15200	1460	1630
16	7050	18900	3140	2580	3570	9750	18500	12300	4450	14900	1600	1590
17	3490	14600	3660	2330	3720	9760	33600	9370	3300	10300	1970	1220
18	4340	10400	3140	2450	3070	8320	22100	9310	2920	5720	1840	1800
19	3080	9470	3190	11100	2620	8770	17100	14300	3080	4370	1440	2170
20	1590	8880	2780	92600	3240	11400	14300	12400	1600	6720	1510	2200
21	6150	9220	2430	42600	4410	16500	13400	8870	3720	6520	1800	1630
22	30900	9100	2410	23800	11200	13500	14500	7850	3210	2840	1420	1610
23	17200	7950	2670	16800	13700	10400	19200	6430	2750	3340	1500	1830
24	11000	6560	3030	13500	13400	8120	22700	5470	2360	2930	1220	2440
25	6580	4530	2740	19000	17600	6870	21200	4880	1530	2160	1490	2180
26	5090	6430	3080	15600	13900	8100	18200	5210	1840	3160	1520	1910
27	4450	8320	2750	14000	10800	11200	14900	3990	2440	4200	1570	2250
28	5740	8290	2400	28100	8830	8840	12500	4200	2230	3870	2180	1990
29	9430	8530	2530	19300	8980	7240	11300	3210	1680	2540	2850	5290
30	7070	9100	2560	13700	---	6510	17300	3130	1580	2150	2070	7860
31	5790	---	2740	10100	---	6200	---	3360	---	2040	1750	---
TOTAL	153543	289560	121710	360750	190570	233400	390660	385910	111970	160280	64540	59226
MEAN	4953	9652	3926	11640	6571	7529	13020	12450	3732	5170	2082	1974
MAX	30900	30000	8830	92600	17600	16500	33600	39000	9440	30000	4000	7860
MIN	544	4290	2290	1900	2620	4130	5440	3130	1530	1350	1220	756

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

	3367	5466	6254	5627	5675	11060	13890	6848	3477	2352	1721	2292
MEAN	3367	5466	6254	5627	5675	11060	13890	6848	3477	2352	1721	2292
MAX	13950	14090	14610	13460	15810	28580	32280	17320	14290	8779	4089	9345
(WY)	1978	1928	1928	1937	1976	1936	1993	1943	1972	1935	1986	1938
MIN	731	842	1841	1017	1314	3723	3530	1835	1121	671	605	740
(WY)	1965	1931	1931	1931	1931	1940	1995	1995	1941	1941	1941	1995

e Estimated

HUDSON RIVER BASIN

01357500 MOHAWK RIVER AT COHOES, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1926 - 1996	
ANNUAL TOTAL	1420220		2522119			
ANNUAL MEAN	3891		6891		5662	
HIGHEST ANNUAL MEAN					8270	1972
LOWEST ANNUAL MEAN					3017	1965
HIGHEST DAILY MEAN	30900	Oct 22	92600	Jan 20	112000	Mar 19 1936
LOWEST DAILY MEAN	330	Aug 26	544	Oct 2	23	Aug 24 1941
ANNUAL SEVEN-DAY MINIMUM	458	Aug 24	1160	Sep 2	458	Aug 24 1995
10 PERCENT EXCEEDS	9150		15100		13000	
50 PERCENT EXCEEDS	2580		4450		3320	
90 PERCENT EXCEEDS	653		1580		1150	

01357500 MOHAWK RIVER AT COHOES, NY--Continued

(01357499) Diversion, in cubic feet per second, from Mohawk River at Crescent Dam through Barge Canal at lock 6

REVISIONS.--Monthly and yearly discharges for 1995 water year have been revised and are given below. These figures supersede those published in the report for 1995.

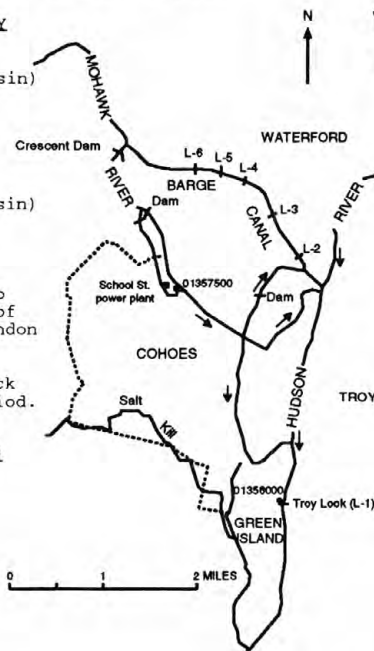
	TOTAL	MEAN	MAX	MIN		TOTAL	MEAN
October 1994	3109	100	133	79	CAL YR 1994	25698.0	70.4
November 1994	2406	80.2	97	73	WTR YR 1995	27052.0	74.1
December 1994	346.0	11.2	73				

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	85	79	3.0	3.0	3.0	3.0	73	139	151	109	145
2	103	73	73	3.0	3.0	3.0	3.0	79	127	157	127	163
3	103	85	73	3.0	3.0	3.0	3.0	73	109	121	139	115
4	73	79	73	3.0	3.0	3.0	3.0	73	59	139	157	109
5	127	91	73	3.0	3.0	3.0	3.0	73	59	145	127	121
6	109	79	46	3.0	3.0	3.0	3.0	103	139	163	133	121
7	97	91	3.0	3.0	3.0	3.0	3.0	73	139	139	121	115
8	127	103	3.0	3.0	3.0	3.0	3.0	79	133	127	133	127
9	115	85	3.0	3.0	3.0	3.0	3.0	91	133	121	121	85
10	91	79	3.0	3.0	3.0	3.0	3.0	79	127	115	169	109
11	121	91	3.0	3.0	3.0	3.0	3.0	115	109	103	115	145
12	97	73	3.0	3.0	3.0	3.0	37	79	121	145	133	109
13	109	73	3.0	3.0	3.0	3.0	73	73	97	121	121	127
14	91	73	3.0	3.0	3.0	3.0	73	73	133	133	127	115
15	85	79	3.0	3.0	3.0	3.0	73	127	133	103	115	121
16	109	85	3.0	3.0	3.0	3.0	73	139	139	121	127	133
17	109	79	3.0	3.0	3.0	3.0	73	103	127	133	139	103
18	97	73	3.0	3.0	3.0	3.0	73	121	133	121	163	109
19	97	79	3.0	3.0	3.0	3.0	73	103	133	121	121	109
20	79	79	3.0	3.0	3.0	3.0	73	115	109	121	115	97
21	85	85	3.0	3.0	3.0	3.0	73	103	115	133	121	145
22	73	85	3.0	3.0	3.0	3.0	73	133	115	127	109	133
23	85	73	3.0	3.0	3.0	3.0	73	133	121	109	139	121
24	97	73	3.0	3.0	3.0	3.0	73	121	139	115	127	133
25	91	73	3.0	3.0	3.0	3.0	91	109	115	127	127	115
26	91	73	3.0	3.0	3.0	3.0	73	109	115	127	145	127
27	79	73	3.0	3.0	3.0	3.0	73	145	139	151	127	121
28	97	79	3.0	3.0	3.0	3.0	73	91	133	133	133	139
29	79	85	3.0	3.0	3.0	3.0	73	121	145	109	133	127
30	91	79	3.0	3.0	---	3.0	73	91	127	121	121	109
31	73	---	3.0	3.0	---	3.0	---	133	---	115	139	---
TOTAL	3007	2412	492.0	93.0	87.0	93.0	1402.0	3133	3662	3967	4033	3648
MEAN	97.0	80.4	15.9	3.00	3.00	3.00	46.7	101	122	128	130	122
MAX	127	103	79	3.0	3.0	3.0	91	145	145	163	169	163
MIN	73	73	3.0	3.0	3.0	3.0	3.0	73	59	103	109	85

CAL YR 1995 TOTAL 27102.0 MEAN 74.3 MAX 181 MIN 3.0
WTR YR 1996 TOTAL 26029.0 MEAN 71.1 MAX 169 MIN 3.0

01357500 MOHAWK RIVER AT COHOES, NY

REGULATION
(see Reservoirs in Hudson River Basin)Delta Dam.
Hinckley Reservoir.
Schoharie Reservoir.DIVERSIONS
(see Reservoirs in Hudson River Basin)From Chenango River basin through
Oriskany Creek Feeder.From (and occasionally into) Oswego
River basin through summit level of
Erie (Barge) Canal between New London
and Utica.From Black River basin through Black
River Canal during navigation period.Into Esopus Creek from Schoharie
Reservoir through Shandaken Tunnel
for New York City water supply.

01358000 HUDSON RIVER AT GREEN ISLAND, NY

REGULATION

Great Sacandaga Lake at Conklingville
(see station 01323500)
Indian Lake near Indian Lake (see
station 01314500).
Mohawk River regulation listed
under Mohawk River at Cohoes.

DIVERSIONS

Mohawk River diversions listed
under Mohawk River at Cohoes.Into St. Lawrence River basin through:
Glens Falls feeder at Dunham Basin.
Bond Creek at Dunham Basin.
Champlain (Barge) Canal.From St. Lawrence River basin through
summit level of Champlain (Barge)
Canal at Dunham Basin.

Figure 9.--Gaging stations and diversions near mouth of Mohawk River.

HUDSON RIVER BASIN

01357500 MOHAWK RIVER AT COHOES, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954-59, 1970, 1976-79, June 1988 to current year.

CHEMICAL DATA: 1955, 1957 (a), 1958-59 (b), 1970 (a), 1977 (c), 1978-79 (d), 1988 (a), 1989 (c), 1990 (d), 1991 (c), 1992 (a), 1993 (c), 1994 (d), 1995 (e), 1996 (d).

MINOR ELEMENTS DATA: 1958-59 (b), 1976 (a), 1977 (c), 1978 (d), 1979 (e), 1988 (a), 1989 (c), 1990 (d), 1991 (c), 1992 (a).

PESTICIDE DATA: 1976 (a), 1977 (c), 1979 (d), 1993 (a), 1994 (d), 1995 (e), 1996 (d).

ORGANIC DATA: OC--1976 (a), 1977 (c), 1978-79 (d), 1993 (c), 1994 (d), 1995 (e), 1996 (d).

PCB--1976 (a), 1977 (c), 1979 (d), 1993 (a).

PCN--1976 (a), 1979 (d), 1993 (a).

NUTRIENT DATA: 1955, 1957 (a), 1958-59 (b), 1970, 1976 (a), 1977 (c), 1978-79 (d), 1993 (c), 1994 (d), 1995 (e), 1996 (d).

BIOLOGICAL DATA:

Bacteria--1977 (c), 1978-79 (d), 1993 (a).

Phytoplankton--1979 (d), 1993 (a).

SEDIMENT DATA: 1954-58, 1976-79 (e), 1988 (a), 1989 (c), 1990 (d), 1991 (c), 1992 (a), 1993 (c), 1994 (d), 1995 (e), 1996 (d).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: May 1956 to June 1959.

SUSPENDED-SEDIMENT DISCHARGE: January 1954 to June 1959, August 1976 to September 1979.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE (water years 1956-59): Maximum daily, 28.0°C, July 21, 1957; minimum daily, 0.0°C on many days during winter periods.

SUSPENDED-SEDIMENT CONCENTRATION (water years 1954-59, 1976-79): Maximum daily mean, 1,230 mg/L, Oct. 17, 1955; minimum daily mean, 1 mg/L, Jan. 6, 1956, Jan. 6, 7, Feb. 21, 22, 25, 1977.

SUSPENDED-SEDIMENT DISCHARGE (water years 1954-59, 1976-79): Maximum daily, 300,000 tons, Oct. 17, 1955; minimum daily, 0.8 ton, Aug. 7, 1955.

REVISIONS.--The pesticide data published in the 1994 annual data report (WDR NY-94-1) are republished here because many of the method detection limits were revised after reevaluation of method performance. The pesticide data from the 1995 water year have not been previously published. Revised method detection limits are listed after the NAWQA section introduction.

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA- ZINE, WATER, DISS, REC, (UG/L) (39632)	CYANA- ZINE, WATER, DISS, REC, (UG/L) (04041)	DEETHYL ATRA- ZINE, WATER, DISS, REC, (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
MAR												
16...	0850	0.007	0.011	<0.004	E0.004	<0.002	<0.003	<0.002	0.009	<0.018	<0.005	<0.010
APR												
26...	0840	<0.002	0.010	<0.004	E0.006	<0.002	<0.003	<0.002	0.009	<0.018	<0.005	<0.010
MAY												
05...	1120	<0.002	0.010	<0.004	E0.004	0.005	<0.003	<0.002	0.007	<0.018	<0.005	<0.010
11...	0920	<0.002	0.010	<0.004	E0.003	<0.002	<0.003	<0.002	0.009	<0.018	<0.005	<0.010
20...	1145	<0.002	0.015	<0.004	E0.007	0.034	<0.003	0.002	0.012	<0.018	0.007	<0.010
27...	1010	<0.002	0.021	<0.004	E0.005	0.006	<0.003	<0.002	0.017	<0.018	0.006	<0.010
JUN												
03...	1130	<0.002	0.016	<0.004	<0.002	0.006	<0.003	<0.002	0.010	<0.018	<0.005	<0.010
08...	1000	<0.002	<0.001	<0.004	<0.002	<0.002	<0.003	<0.002	0.014	<0.018	<0.005	<0.010
13...	1030	<0.002	0.026	<0.004	<0.002	<0.002	<0.003	<0.002	0.017	<0.018	<0.005	<0.010
21...	1125	0.006	0.049	0.017	E0.005	0.007	0.003	<0.002	0.031	<0.018	0.011	<0.010
29...	1000	0.008	0.120	0.045	E0.011	0.015	<0.003	<0.002	0.054	<0.018	0.017	<0.010
JUL												
06...	1000	0.021	0.370	0.073	E0.032	<0.002	0.003	<0.002	0.170	0.025	0.014	<0.010
AUG												
23...	0940	<0.002	0.091	<0.004	E0.043	0.013	<0.003	<0.002	0.043	<0.018	0.016	<0.010
SEP												
21...	1000	<0.002	0.021	<0.004	E0.012	<0.002	<0.003	<0.002	0.012	<0.018	<0.005	E0.010

E Estimate.

HUDSON RIVER BASIN

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01357500 MOHAWK RIVER AT COHOES, NY--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
OCT											
19...	0940	<0.002	0.015	<0.003	<0.004	E0.005	<0.002	0.009	<0.004	<0.005	<0.007
NOV											
09...	0950	<0.002	0.020	<0.003	<0.004	E0.008	<0.002	0.010	<0.004	<0.005	<0.007
DEC											
07...	0910	<0.002	0.018	<0.003	<0.004	E0.007	<0.002	0.024	<0.004	<0.005	<0.007
JAN											
18...	0900	<0.002	0.017	<0.003	<0.004	E0.014	<0.002	0.012	<0.004	<0.005	<0.007
MAR											
08...	0950	<0.002	0.009	<0.003	<0.004	E0.006	<0.002	0.009	<0.004	<0.005	<0.007
APR											
19...	1420	<0.002	0.010	<0.003	<0.004	E0.006	0.006	0.004	<0.004	<0.005	<0.007
MAY											
12...	1020	<0.002	0.009	<0.003	<0.004	E0.005	<0.002	0.006	<0.004	<0.005	<0.007
24...	0940	<0.002	0.013	<0.003	<0.004	<0.002	--	0.011	<0.004	<0.005	<0.007
31...	1015	<0.002	0.013	<0.003	<0.004	E0.004	--	0.013	0.027	<0.005	<0.007
JUN											
06...	0925	0.013	0.042	E0.013	<0.004	E0.010	--	0.041	<0.004	<0.005	<0.007
14...	0955	<0.002	0.150	E0.016	0.028	E0.007	--	0.047	<0.004	<0.005	<0.007
22...	1030	<0.002	0.130	<0.003	0.061	E0.010	--	0.099	<0.004	<0.005	<0.007
28...	1030	<0.002	0.120	<0.003	0.025	E0.009	--	0.054	<0.004	<0.005	<0.007
JUL											
07...	1100	<0.002	0.094	<0.003	0.020	E0.012	--	0.034	<0.004	0.007	E0.010
11...	1150	<0.002	0.110	<0.003	0.017	E0.013	--	0.040	<0.004	<0.005	<0.007
18...	1050	<0.002	0.069	<0.003	0.010	E0.011	<0.002	0.026	<0.004	E0.005	<0.007
24...	1020	<0.002	0.100	<0.003	0.016	E0.017	<0.002	0.067	<0.004	<0.005	<0.007
AUG											
01...	1040	<0.002	0.042	<0.003	0.005	E0.004	--	0.017	<0.004	<0.005	<0.007
08...	1150	<0.002	0.048	E0.026	<0.004	E0.009	--	0.023	<0.004	<0.005	<0.007
SEP											
07...	1015	<0.002	0.017	<0.003	<0.004	E0.008	--	0.010	<0.004	<0.005	<0.007

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

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	OXYGEN, DIS- SOLVED (MG/L) (00301)	HARD- NESS TOTAL (MG/L AS CaCO3) (00900)
OCT										
23...	1400	16300	232	7.5	21.5	12.0	767	11.1	103	94
NOV										
13...	1230	32000	221	7.2	4.5	5.0	765	14.6	114	84
DEC										
07...	1120	5770	278	7.3	1.0	1.0	760	14.8	104	100
JAN										
22...	1120	23500	218	7.7	0.5	0.5	771	20.0	136	75
29...	1250	20200	206	8.2	-1.5	0.5	769	16.8	115	71
MAR										
21...	1310	17700	263	7.6	8.5	3.5	744	14.1	108	93
APR										
04...	1440	7670	239	7.7	9.0	6.5	755	12.3	101	--
17...	1010	35700	225	7.7	6.5	5.5	750	13.6	109	79
MAY										
13...	1050	35800	206	7.5	13.0	10.5	760	11.8	106	84
JUN										
06...	1430	1920	265	8.3	27.5	20.5	764	9.9	110	--
11...	1345	11000	297	7.8	22.0	33.0	758	8.8	123	120
21...	1140	4080	233	7.3	26.0	23.0	753	7.4	87	--
JUL										
02...	1340	1940	281	7.5	33.0	23.5	755	7.6	91	--
10...	1310	2120	303	8.1	25.5	24.0	758	8.9	107	--
14...	1315	30600	271	7.7	31.5	22.0	757	9.3	107	110
16...	1330	14800	189	7.4	28.0	21.5	760	10.8	123	64
AUG										
19...	1500	1430	298	6.4	28.5	26.5	769	7.6	94	--
SEP										
05...	1200	1720	305	7.2	--	24.5	--	--	--	--

E Estimate.

HUDSON RIVER BASIN

01357500 MOHAWK RIVER AT COHOES, NY--Continued

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

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LITY WAT DIS TOT IT FIELD (MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
OCT 23...	30	4.7	9.1	17	0.4	2.5	52	25	15	0.20
NOV 13...	27	4.1	9.4	19	0.4	1.5	58	20	15	<0.10
DEC 07...	32	5.3	13	22	0.6	1.1	68	20	22	<0.10
JAN 22...	24	3.7	11	24	0.6	1.6	69	13	20	<0.10
29...	23	3.3	9.6	22	0.5	1.1	52	11	17	<0.10
MAR 21...	29	4.9	15	26	0.7	1.4	79	15	25	0.10
APR 04...	--	--	--	--	--	--	68	--	--	--
17...	25	4.1	11	23	0.5	1.2	63	15	18	<0.10
MAY 13...	27	4.1	7.5	16	0.4	1.2	69	12	10	<0.10
JUN 06...	--	--	--	--	--	--	--	--	--	--
11...	36	6.3	14	21	0.6	1.1	86	21	21	<0.10
21...	--	--	--	--	--	--	--	--	--	--
JUL 02...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
14...	33	5.8	12	19	0.5	1.3	53	19	18	0.10
16...	21	2.8	6.2	17	0.3	1.3	62	11	9.9	0.10
AUG 19...	--	--	--	--	--	--	--	--	--	--
SEP 05...	--	--	--	--	--	--	--	--	--	--
DATE	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)
OCT 23...	5.3	150	135	0.010	0.670	0.020	0.80	0.30	0.200	0.040
NOV 13...	4.6	121	123	<0.010	0.550	<0.015	0.90	0.30	0.230	<0.010
DEC 07...	4.5	154	148	<0.010	0.870	0.050	0.30	0.20	0.030	0.010
JAN 22...	4.1	129	122	<0.010	1.20	0.080	0.60	0.40	0.150	0.020
29...	4.2	121	113	<0.010	0.880	0.040	0.80	0.20	0.260	0.030
MAR 21...	4.5	153	143	0.010	0.840	0.150	0.80	0.40	0.210	0.040
APR 04...	--	--	--	0.010	0.760	0.050	0.30	0.20	0.030	<0.010
17...	4.2	118	125	<0.010	0.740	0.050	0.80	0.40	0.180	0.020
MAY 13...	4.6	113	117	0.010	0.470	0.020	0.80	0.30	0.210	0.020
JUN 06...	--	--	--	--	--	--	--	--	--	--
11...	2.4	163	164	0.020	0.800	0.040	0.40	0.20	0.080	0.010
21...	--	--	--	--	--	--	--	--	--	--
JUL 02...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
14...	4.4	158	153	0.020	0.740	0.050	0.70	0.20	0.180	0.040
16...	4.0	104	101	0.020	0.500	0.090	0.60	0.40	0.160	0.040
AUG 19...	--	--	--	--	--	--	--	--	--	--
SEP 05...	--	--	--	0.030	0.540	0.130	0.40	0.40	0.030	0.020

HUDSON RIVER BASIN

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01357500 MOHAWK RIVER AT COHOES, NY--Continued

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

DATE	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C) (00689)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)
OCT 23...	0.040	140	5.0	--	--	6.0	2.8	0.004	0.046	E0.002
NOV 13...	0.010	120	11	--	--	5.0	3.0	--	--	--
DEC 07...	0.020	54	23	--	--	3.5	0.20	<0.002	0.010	<0.002
JAN 22...	0.020	140	25	-81.4	-11.92	3.9	1.9	<0.002	0.019	<0.002
29...	0.020	130	18	--	--	3.9	1.8	<0.002	0.015	<0.002
MAR 21...	0.030	82	20	--	--	3.3	1.6	<0.002	0.024	<0.002
APR 04...	<0.010	--	--	--	--	2.6	0.50	--	--	--
17...	<0.010	110	24	--	--	3.4	1.7	--	--	--
MAY 13...	<0.010	130	12	--	--	4.0	1.5	--	--	--
JUN 06...	--	--	--	--	--	--	--	E0.002	0.014	<0.002
11...	0.010	16	1.0	--	--	5.4	0.50	--	--	--
21...	--	--	--	--	--	--	--	0.023	0.200	<0.002
JUL 02...	--	--	--	--	--	--	--	0.008	0.100	<0.002
10...	--	--	--	--	--	--	--	0.007	0.076	<0.002
14...	0.030	46	1.0	--	--	--	--	0.007	0.183	<0.002
16...	0.040	130	6.0	-62.3	-9.20	5.3	1.8	0.014	0.330	<0.002
AUG 19...	--	--	--	--	--	--	--	E0.004	0.045	<0.002
SEP 05...	0.030	--	--	--	--	3.7	0.20	<0.002	0.036	<0.002

DATE	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)
OCT 23...	E0.013	<0.004	<0.002	E0.007	0.008	0.057	<0.004	<0.013	<0.005
NOV 13...	--	--	--	--	--	--	--	--	--
DEC 07...	<0.003	<0.004	<0.002	E0.005	<0.002	0.011	<0.004	<0.013	<0.005
JAN 22...	<0.003	<0.004	<0.002	E0.011	<0.002	0.033	<0.004	<0.013	<0.005
29...	<0.003	<0.004	<0.002	E0.011	<0.002	0.016	<0.004	0.017	<0.005
MAR 21...	<0.003	<0.004	<0.002	E0.005	0.006	0.024	<0.004	<0.013	<0.005
APR 04...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
MAY 13...	--	--	--	--	--	--	--	--	--
JUN 06...	E0.004	<0.004	<0.002	E0.005	<0.002	0.011	<0.004	<0.013	<0.005
11...	--	--	--	--	--	--	--	--	--
21...	<0.003	0.018	<0.002	E0.003	0.007	0.200	0.008	<0.013	<0.005
JUL 02...	E0.005	0.018	<0.002	E0.008	0.004	0.088	<0.004	<0.013	0.007
10...	<0.003	0.011	E0.002	E0.011	<0.002	0.048	<0.008	<0.013	0.009
14...	<0.003	0.015	<0.002	E0.018	0.008	0.100	<0.004	<0.013	0.013
16...	<0.003	0.048	<0.002	E0.025	0.004	0.200	<0.004	<0.013	0.027
AUG 19...	<0.003	0.0082	<0.002	E0.0078	0.005	0.019	<0.004	<0.013	<0.005
SEP 05...	<0.003	<0.004	<0.002	E0.0098	E0.003	0.017	<0.004	<0.013	<0.005

E Estimate.

HUDSON RIVER BASIN

01357500 MOHAWK RIVER AT COHOES, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT				
23...	1400	16300	71	92
NOV				
13...	1230	32000	188	77
DEC				
07...	1120	5770	7	92
JAN				
22...	1120	23500	162	96
29...	1250	20200	228	96
MAR				
21...	1310	17700	63	88
APR				
04...	1440	7670	27	85
17...	1010	35700	139	95
MAY				
13...	1050	35800	192	97
JUN				
11...	1345	11000	57	44
JUL				
14...	1315	30600	149	96
16...	1330	14800	154	92

HUDSON RIVER BASIN

109

01358000 HUDSON RIVER AT GREEN ISLAND, NY

LOCATION.--Lat 42°45'08", long 73°41'22", Albany County, Hydrologic Unit 02020006, on right bank at Green Island, just upstream from Troy lock and dam, and 0.5 mi downstream from 5th branch Mohawk River.

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

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

GAUGE.--Water-stage recorder. Datum of gage is 0.31 ft below sea level (Corps of Engineers benchmark). From July 1, 1946 to Mar. 12, 1962 auxiliary water-stage recorder on bypass channel at datum 10.59 ft higher. Totalizing flowmeter on each turbine in powerplant.

REMARKS.--Records fair. Records include flow over spillway, flow through lock, and flow through powerplant. Powerplant, located on the right bank just downstream from gage, was inoperative from Nov. 20, 1960 to Feb. 23, 1971. An inflatable rubber dam was installed on the spillway during August 1991. Since August 1991, estimated water-discharge data based on records for Hudson River above Lock 1 near Waterford (01335754) and Mohawk River at Cohoes (01357500) due to inflatable rubber dam. See Diversions in Hudson River Basin for regulation and diversions upstream from this station. Satellite gage-height and flowmeter telemeter readings at station.

COOPERATION.--Turbine flowmeter readings provided by Niagara Mohawk Power Corporation.

AVERAGE DISCHARGE.--50 years, 13,800 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 181,000 ft³/s, Dec. 31, 1948, gage height, 27.05 ft, from high-water mark in gage well; maximum daily discharge, 152,000 ft³/s, Mar. 14, 1977; minimum daily, 882 ft³/s, Sept. 2, 1968; minimum gage height, 13.68 ft, July 6, 1981, when pool was lowered for inspection of flashboards.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 19, 1936, reached a stage of 29.48 ft at gage on opposite bank, from information by Corps of Engineers (discharge, 215,000 ft³/s). Flood of Mar. 28, 1913, prior to construction of Sacandaga Reservoir and Troy lock and dam, reached a stage about 0.2 ft higher upstream from former dam near same site. Downstream from dams, flood in 1913 was about 3.3 ft higher than flood in 1936, from information by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 165,000 ft³/s, Jan. 20, gage height, 26.22 ft; minimum daily, about 2,900 ft³/s, Oct. 3; minimum gage height, 14.16 ft, Sept. 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e3400	16300	19800	e8200	21200	e18900	e14800	71100	e9600	e6500	10000	e5600
2	e4100	16400	19700	e7600	19500	e16600	e15800	66400	e8300	e5900	9580	e5200
3	e2900	18000	16800	e7800	19200	e15200	e17000	53400	e8900	e5700	8800	e5400
4	e3200	22000	16600	e8000	18300	e13000	e15500	47300	e9000	e10600	8160	e5900
5	e4000	21800	18500	e7900	15800	e12000	e13700	46900	e9100	e15500	7980	e4600
6	e6600	e19300	18400	e8000	e15100	e12600	e12600	45300	e8400	e14700	7280	e5300
7	e7300	e16500	15900	e8000	e14800	e13400	e12000	43900	e8400	e9500	6150	e4500
8	e8300	e17100	14000	e8200	e14100	e12000	e12900	28100	e12400	e9600	5690	e4600
9	e4700	e16400	13200	e8400	e14200	e12900	e13800	25800	e19500	e8000	9500	e6400
10	e5500	e17000	11300	e8800	e15400	e13300	e13300	25300	e22800	e7300	7020	e6800
11	e4300	e15900	e10400	e9000	e15800	e13800	e12400	35400	e22600	e7600	7160	e6200
12	e4200	e38500	e10600	e8700	e15700	e13500	e11700	85800	e21200	e6400	6720	e6200
13	e4400	58900	e10400	e8600	e14600	e12900	e13000	89400	e19900	e11600	e5600	e5000
14	e4000	41700	e11200	e8700	e12300	e13500	e23600	66700	e20100	50800	e6700	e5100
15	e8800	40000	e10000	e8400	e12300	e14000	e31400	52100	e18200	30000	e5900	e5400
16	e12900	40500	e10000	e8600	e12200	e18600	e43600	42900	e15600	32700	e5300	e6200
17	e9900	33600	e10600	e8200	e11700	e18800	75500	37800	e14300	26700	e6900	e5400
18	e9700	27400	e10600	e8400	e10800	e17000	57100	34300	e13500	18500	e6600	e7000
19	e8400	25700	e10800	e28100	e10600	e17800	42900	37900	e12200	15500	e6000	e6500
20	e6300	24800	e9600	137000	e10400	e21000	35800	37500	e10200	16600	e6100	e7000
21	e11500	24100	e8400	86100	e13700	e27500	35500	33000	e11800	16700	e6500	e6100
22	50100	22600	e8800	52700	e25900	e23900	39200	28400	e11100	10800	e5900	e5800
23	45500	21300	e7800	38200	e30000	e19700	55100	24900	e10200	11300	e6000	e7000
24	31000	20400	e8500	31900	e27700	e16800	69600	21300	e9700	9100	e5200	e7800
25	21000	17400	e8100	46400	e35900	e15200	67100	19500	e9400	7820	e5900	e7500
26	16000	18100	e8400	36400	e28300	e17000	55300	18100	e8800	8620	e5800	e6700
27	14800	20500	e8500	32900	e22300	e20200	50500	15700	e8200	12500	e5200	e7000
28	18000	20300	e7800	58600	e19900	e18800	43900	14300	e7900	11500	e6700	e6800
29	26100	21200	e8200	45500	e18800	e15800	39800	12600	e6700	8230	e7200	e12800
30	21100	21400	e8500	35000	---	e14800	51400	e11500	e6200	7470	e6300	e14800
31	17300	---	e7500	28100	---	e14000	---	e11500	---	6960	e5900	---
TOTAL	395300	735100	358900	806400	516500	504500	995800	1184100	374200	420700	209740	196600
MEAN	12750	24500	11580	26010	17810	16270	33190	38200	12470	13570	6766	6553
MAX	50100	58900	19800	137000	35900	27500	75500	89400	22800	50800	10000	14800
MIN	2900	15900	7500	7600	10400	12000	11700	11500	6200	5700	5200	4500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1996, BY WATER YEAR (WY)

	MEAN	8997	12960	14670	13490	14030	22070	30790	19010	10120	6759	5849	6501
MAX	30140	26150	28220	33970	31260	44240	61820	40520	29630	18380	14630	17030	
(WY)	1978	1973	1984	1949	1976	1979	1993	1972	1972	1972	1976	1975	
MIN	2967	3270	6096	4187	4527	9123	9073	5505	3573	3082	2912	2875	
(WY)	1965	1965	1965	1961	1980	1965	1995	1987	1965	1965	1965	1964	

e Estimated

HUDSON RIVER BASIN

01358000 HUDSON RIVER AT GREEN ISLAND, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1946 - 1996	
ANNUAL TOTAL	3749600		6697840			
ANNUAL MEAN	10270		18300		13770	
HIGHEST ANNUAL MEAN					22100	1976
LOWEST ANNUAL MEAN					6386	1965
HIGHEST DAILY MEAN	58900	Nov 13	137000	Jan 20	152000	Mar 14 1977
LOWEST DAILY MEAN	1900	Aug 26	2900	Oct 3	882	Sep 2 1968
ANNUAL SEVEN-DAY MINIMUM	2110	Aug 23	4500	Oct 1	2110	Aug 23 1995
10 PERCENT EXCEEDS	21900		39900		28800	
50 PERCENT EXCEEDS	8100		13000		9360	
90 PERCENT EXCEEDS	3200		5970		4280	

HUDSON RIVER BASIN

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01359139 HUDSON RIVER AT ALBANY, NY

LOCATION.--Lat 42°38'53", long 73°44'50", Albany County, Hydrologic Unit 02020006, on right bank 0.3 mi upstream from bridge on U.S. Highways 9 and 20 in Albany, and 0.5 mi downstream from the Conrail railroad bridge.

DRAINAGE AREA.--8,288 mi².

PERIOD OF RECORD.--October 1972 to September 1976, April 1981 to current year.

REVISED RECORDS.--WDR NY-90-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 10.00 ft below sea level (levels by Corps of Engineers). Gage-height record converted to elevation above or below (-) mean sea level for publication.

REMARKS.--Telephone gage-height telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 28, 1913, reached a stage of 21.45 ft, discharge, 240,000 ft³/s (estimated, tide affected) from information provided by Board of Hudson River-Black River Regulating District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation recorded, 15.49 ft, Jan. 20, 1996; minimum recorded, -4.50 ft, Mar. 8, 1986.

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
<u>Maximum high tide</u>												
Elevation	6.72	7.32	5.68	15.49	5.27	7.03	7.91	7.80	5.51	6.16	5.64	5.65
Date	22	15	1	20	24	20	17	13	14	14	1	25
<u>Minimum low tide</u>												
Elevation	-2.30	-1.60	-3.47	-1.22	-1.93	-3.21	-2.23	-2.03	-2.37	-1.83	-2.01	-1.87
Date	17	10	22	6	29	4	11	30	28	2,11	30	1
Mean high tide	4.70	5.28	4.10	5.14	4.00	4.38	5.35	5.82	4.96	5.03	4.65	4.87
Mean water level	2.04	2.63	1.37	3.34	2.04	1.77	3.05	3.41	1.97	2.07	1.64	2.01
Mean low tide	-0.80	-0.11	-1.56	1.52	0.06	-1.10	0.54	0.84	-1.21	-1.08	-1.57	-1.07

HUDSON RIVER BASIN

01360640 VALATIE KILL NEAR NASSAU, NY

LOCATION.--Lat 42°33'07", long 73°35'31", Rensselaer County, Hydrologic Unit 02020006, on left bank about 200 ft upstream from bridge on Hoags Corners Road, and 2.7 mi northeast of Nassau.

DRAINAGE AREA.--9.48 mi².

PERIOD OF RECORD.--October 1990 to current year.

GAGE.--Water-stage recorder, concrete control, and crest-stage gage. Elevation of gage is 450 ft above sea level, from topographic map.

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

AVERAGE DISCHARGE.--6 years, 12.6 ft³/s, 18.05 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 738 ft³/s, Jan. 19, 1996, gage height, 5.85 ft; minimum discharge, 0.08 ft³/s, Aug. 31, Sept. 6, 7, 8, 1995, gage height, 0.76 ft; minimum daily, 0.10 ft³/s, Aug. 2, 1991, Sept. 8, 1995.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 130 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 12	0530	341	4.42	May 1	0130	261	4.02
Jan. 19	1645	*738	*5.85	May 12	0030	243	3.92
Jan. 27	1930	224	3.81	June 9	0230	152	3.33
Apr. 16	--	212	a3.74	July 13	1945	192	3.61
Apr. 24	--	b160	unknown				

a From crest-stage gage.

b About.

Minimum discharge, 0.23 ft³/s, Oct. 3, 4, gage height, 0.85 ft; minimum daily, 0.24 ft³/s, Oct. 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.34	7.5	6.8	e4.2	e15	e11	e18	154	3.3	3.9	2.9	.61
2	.28	8.0	6.5	e4.1	e10	e9.6	e23	65	2.9	3.0	3.1	.57
3	.24	10	6.9	e4.0	e8.6	e8.8	e20	41	3.9	4.6	2.6	.54
4	.60	10	8.8	e3.9	e7.3	e8.0	e18	67	16	15	2.3	.52
5	2.2	8.3	8.8	e3.8	e6.5	e7.0	e16	75	11	16	2.0	.56
6	15	6.9	8.9	e3.7	e6.0	e6.8	e14	62	6.4	9.5	1.8	.52
7	8.3	7.1	7.7	e3.7	e5.7	e6.4	e15	50	4.6	6.3	1.5	.52
8	4.9	21	7.0	e3.6	6.7	e6.2	e20	34	34	4.6	1.3	.67
9	3.2	15	5.6	e4.0	7.1	e6.0	e19	26	110	4.1	2.9	.96
10	2.3	11	e5.2	e4.2	7.4	e6.0	e18	29	64	4.3	3.3	.75
11	1.8	9.4	e4.8	e4.2	9.8	e6.4	e17	82	33	3.5	2.5	.66
12	1.5	171	e4.6	e4.0	e7.0	e7.2	e15	195	20	2.7	2.0	.56
13	1.2	73	e4.2	e3.9	e6.0	e8.0	e19	99	15	71	1.8	.61
14	1.2	49	e4.0	e3.8	e5.0	e10	e100	51	14	92	1.5	1.0
15	18	61	5.5	e3.8	e4.3	e25	e40	33	10	46	1.2	.95
16	10	41	5.2	e4.5	e3.6	e23	e170	29	8.0	49	1.2	.81
17	5.8	28	5.0	5.9	e3.2	e17	e100	30	6.7	24	1.6	1.2
18	3.8	22	4.9	10	e3.0	e20	e60	27	5.6	14	1.3	13
19	3.0	23	4.7	312	3.2	e22	e40	28	5.1	13	1.0	9.2
20	2.5	20	4.9	230	6.6	e50	e35	22	5.9	15	.85	5.2
21	8.8	17	5.1	78	27	e40	e45	18	7.0	8.8	.89	3.0
22	40	14	5.1	38	62	e34	e38	15	6.1	6.1	1.2	2.6
23	21	12	4.9	26	43	e25	e90	12	5.3	4.9	1.7	31
24	13	11	4.8	49	38	e19	e140	10	4.5	4.3	2.1	18
25	8.7	9.6	4.7	74	32	e22	63	8.1	4.0	4.2	1.4	10
26	6.4	8.8	4.8	57	22	e48	51	6.8	3.4	7.2	1.1	6.7
27	5.1	8.5	4.7	89	18	e32	79	5.9	2.9	5.9	.93	4.6
28	16	8.1	4.6	100	e16	e23	43	5.2	2.6	4.5	1.0	6.4
29	19	7.4	4.5	60	e13	e20	58	4.6	2.4	3.7	.89	82
30	12	6.6	4.5	30	---	e18	97	4.1	3.9	3.4	.81	33
31	9.0	---	e4.3	e21	---	e17	---	3.8	---	3.1	.68	---
TOTAL	245.16	705.2	172.0	1243.3	403.0	562.4	1481	1292.5	421.5	457.6	51.35	236.71
MEAN	7.91	23.5	5.55	40.1	13.9	18.1	49.4	41.7	14.0	14.8	1.66	7.89
MAX	40	171	8.9	312	62	50	170	195	110	92	3.3	82
MIN	.24	6.6	4.0	3.6	3.0	6.0	14	3.8	2.4	2.7	.68	.52
CFSM	.83	2.48	.59	4.23	1.47	1.91	5.21	4.40	1.48	1.56	.17	.83
IN.	.96	2.77	.67	4.88	1.58	2.21	5.81	5.07	1.65	1.80	.20	.93

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1996, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996
MEAN	7.14	15.9	14.9	15.7	8.63	28.1
MAX	16.6	26.5	23.3	40.1	13.9	44.0
(WY)	1992	1992	1991	1996	1996	1994
MIN	1.73	1.75	5.55	4.88	3.44	13.1
(WY)	1993	1995	1996	1994	1993	1992

e Estimated

HUDSON RIVER BASIN

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01360640 VALATIE KILL NEAR NASSAU, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1991 - 1996
ANNUAL TOTAL	3468.48	7271.72	
ANNUAL MEAN	9.50	19.9	12.6
HIGHEST ANNUAL MEAN			19.9 1996
LOWEST ANNUAL MEAN			7.45 1995
HIGHEST DAILY MEAN	171 Nov 12	312 Jan 19	344 Mar 30 1993
LOWEST DAILY MEAN	.10 Sep 8	.24 Oct 3	.10 Aug 2 1991
ANNUAL SEVEN-DAY MINIMUM	.13 Sep 2	.55 Sep 1	.13 Sep 2 1995
ANNUAL RUNOFF (CFSM)	1.00	2.10	1.33
ANNUAL RUNOFF (INCHES)	13.61	28.53	18.09
10 PERCENT EXCEEDS	21	51	31
50 PERCENT EXCEEDS	4.8	7.1	5.3
90 PERCENT EXCEEDS	.24	1.3	.50

HUDSON RIVER BASIN

01361200 CLAVERACK CREEK AT CLAVERACK, NY
(National water-quality assessment program station)

WATER-QUALITY RECORDS

LOCATION.--Lat 42°12'54", long 73°43'46", Columbia County, Hydrologic Unit 02020006, on right bank 40 ft upstream from bridge on State Highway 9H, 2.2 mi upstream from Taghkanic Creek, and 0.5 mi south of Claverack.

DRAINAGE AREA.--60.6 mi².

PERIOD OF RECORD.--Water years 1964-66, March 1993 to April 1995 (discontinued).

CHEMICAL DATA: 1964 (b), 1965 (c), 1966 (a), 1993 (b), 1994 (d), 1995 (c).

PESTICIDE DATA: 1993-94 (a).

ORGANIC DATA: OC--1993 (b), 1994 (d), 1995 (c).

PCB--1993 (a).

PCN--1993 (a).

NUTRIENT DATA: 1964 (b), 1965 (c), 1966 (a), 1993 (b), 1994 (d), 1995 (c).

BIOLOGICAL DATA:

Bacteria--1993 (a).

Phytoplankton--1993 (a).

SEDIMENT DATA: 1993 (b), 1994 (d), 1995 (c).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: March 1993 to April 1995.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum (water years 1993-94), 26.5°C, June 18, 19, July 7, 1994; minimum (water years 1994-95), 0.0°C on many days during winter periods.

REVISIONS.--The pesticide data published in the 1994 annual data report (WDR NY-94-1) are republished here because many of the method detection limits were revised after reevaluation of method performance. Revised method detection limits are listed after the NAWQA section Introduction.

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	ATRA-	DEETHYL		
		ZINE,	ATRA-	METO-	SI-
		WATER,	ZINE,	LACHLOR	MAZINE,
		DISS,	WATER,	WATER	DISS,
		REC	REC	DISSOLV	REC
		(UG/L)	(UG/L)	(UG/L)	(UG/L)
		(39632)	(04040)	(39415)	(04035)
MAY					
27...	1040	0.014	E0.007	0.013	0.013

E Estimate.

HUDSON RIVER BASIN

115

01362200 ESOPUS CREEK AT ALLABEN, NY

LOCATION.--Lat 42°07'01", long 74°22'50", Ulster County, Hydrologic Unit 02020006, on right bank, 20 ft downstream from bridge on Fox Hollow Road, 0.5 mi west of Allaben, 200 ft downstream from Fox Hollow Creek, and 600 ft upstream from Peck Hollow Creek.

DRAINAGE AREA.--63.7 mi².

PERIOD OF RECORD.--October 1963 to current year. Prior to October 1988, published as Esopus Creek at Shandaken.

GAGE.--Water-stage recorder. Datum of gage is 998.04 ft above sea level. Prior to November 22, 1988, at site 0.5 mi upstream at datum 19.23 ft higher.

REMARKS.--Records poor. Occasional slight regulation when filling or draining swimming pools or small ponds upstream from station. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--33 years, 139 ft³/s, 29.63 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,100 ft³/s, Apr. 4, 1987, gage height, 13.70 ft, from floodmarks, site and datum then in use, from rating curve extended above 3,000 ft³/s, on basis of slope-area measurement at gage height 13.70 ft, at site 0.5 mi upstream, includes undetermined amount of flow bypassing gage; minimum discharge, 2.1 ft³/s, Sept. 16, 1983 (result of slight regulation upstream from station).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 30, 1951 reached a stage of about 15.1 ft, at previous site and datum, from information supplied by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 21	1530	5,680	9.84	Apr. 16	1500	1,560	6.46
Nov. 12	0230	3,430	8.45	Apr. 30	2145	1,510	6.39
Jan. 19	1745	*15,000	*13.58	July 13	1715	2,390	7.42
Jan. 27	1645	5,080	9.82				

Minimum discharge, 7.3 ft³/s, Oct. 3, 4.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	201	136	50	e300	245	182	1050	62	45	124	24
2	7.8	228	135	50	281	222	197	664	58	41	112	23
3	7.5	233	127	e47	e230	200	185	499	55	74	99	21
4	12	216	127	e45	e200	170	175	403	62	80	89	20
5	23	193	120	e43	e180	168	166	336	60	76	84	20
6	142	174	119	e41	e160	176	154	321	53	62	80	19
7	93	163	111	e42	e150	156	156	284	49	56	71	29
8	72	154	105	e43	151	136	154	257	214	53	65	43
9	59	134	104	e41	133	126	146	238	382	51	63	34
10	51	121	100	e40	113	124	138	237	368	49	61	28
11	46	151	e95	e40	109	e120	129	325	345	44	54	25
12	42	1810	e88	e40	e90	112	135	499	285	41	49	23
13	39	774	e80	e43	e80	107	217	486	238	781	46	25
14	55	517	e82	e42	e74	117	523	407	196	775	43	28
15	149	703	e90	e40	e70	149	488	348	159	558	40	25
16	120	504	78	e42	e61	160	1200	314	136	618	40	23
17	108	399	72	e60	e60	158	1010	277	120	451	37	30
18	101	313	69	e120	e60	163	659	246	108	342	35	392
19	93	260	68	e5000	e70	166	515	215	103	305	32	190
20	89	223	69	2310	e90	297	483	185	103	250	30	126
21	2500	198	73	795	e220	271	492	167	91	189	28	99
22	1230	176	69	504	294	258	423	145	82	152	27	83
23	505	154	59	402	357	236	407	131	74	131	27	98
24	310	135	58	590	441	210	442	120	66	117	37	87
25	221	124	57	665	415	198	359	107	62	122	31	82
26	177	119	56	494	352	227	323	98	56	264	27	75
27	150	113	55	2270	308	224	298	91	52	212	25	69
28	554	120	55	1660	297	222	263	84	51	185	55	69
29	431	127	53	775	268	217	346	78	46	162	37	207
30	322	127	51	534	---	200	716	73	48	146	30	163
31	246	---	50	401	---	187	---	68	---	134	26	---
TOTAL	7963.5	8864	2611	17269	5614	5722	11081	8753	3784	6566	1604	2180
MEAN	257	295	84.2	557	194	185	369	282	126	212	51.7	72.7
MAX	2500	1810	136	5000	441	297	1200	1050	382	781	124	392
MIN	7.5	113	50	40	60	107	129	68	46	41	25	19
CFSM	4.03	4.64	1.32	8.75	3.04	2.90	5.80	4.43	1.98	3.33	.81	1.14
IN.	4.65	5.18	1.52	10.08	3.28	3.34	6.47	5.11	2.21	3.83	.94	1.27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1996, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1964	80.7	370	1978	4.16	1965
1965	141	346	1973	5.58	1965
1966	161	496	1974	49.4	1965
1967	147	557	1976	19.4	1981
1968	141	385	1981	29.6	1987
1969	246	553	1977	69.9	1970
1970	335	827	1993	123	1995
1971	196	511	1989	67.3	1987
1972	98.6	363	1973	19.4	1965
1973	55.8	212	1996	8.94	1965
1974	31.0	86.3	1969	6.30	1964
1975	40.9	213	1987	4.23	

e Estimated

HUDSON RIVER BASIN

01362200 ESOPUS CREEK AT ALLABEN, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1964 - 1996
ANNUAL TOTAL	45655.9	82011.5	
ANNUAL MEAN	125	224	139
HIGHEST ANNUAL MEAN			224
LOWEST ANNUAL MEAN			59.8
HIGHEST DAILY MEAN	2500 Oct 21	5000 Jan 19	5000 Apr 4 1987
LOWEST DAILY MEAN	4.3 Sep 8	7.5 Oct 3	3.3 Sep 24 1964
ANNUAL SEVEN-DAY MINIMUM	5.0 Sep 2	22 Aug 31	3.5 Sep 22 1964
ANNUAL RUNOFF (CFSM)	1.96	3.52	2.19
ANNUAL RUNOFF (INCHES)	26.66	47.89	29.72
10 PERCENT EXCEEDS	256	487	306
50 PERCENT EXCEEDS	77	125	76
90 PERCENT EXCEEDS	9.6	40	13

01362500 ESOPUS CREEK AT COLD BROOK, NY

LOCATION.--Lat 42°00'51", long 74°16'16", Ulster County, Hydrologic Unit 02020006, on left bank at downstream side of bridge on Coldbrook Road in Coldbrook, 0.3 mi downstream from Little Beaver Kill, 1.5 mi upstream from Ashokan Reservoir, and 2.5 mi south of Mount Tremper. Water-quality sampling site at discharge station.

DRAINAGE AREA.--192 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1914 to September 1925 (monthly discharge only, furnished by State engineer and surveyor of New York, published in WSP 1302), October 1925 to September 1931 (monthly discharge only, furnished by Board of Water Supply, City of New York, published in WSP 1302), October 1931 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 621.54 ft above sea level. Prior to June 15, 1916, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Since 1924, water diverted from Schoharie Reservoir through Shandaken Tunnel (see Reservoirs in Hudson River Basin) enters Esopus Creek 10.5 mi upstream from station and is included in records of daily discharge. Slight diversion from Beaver Kill into Cooper Lake for water supply of Kingston. Telephone and satellite gage-height and temperature telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 65,300 ft³/s, Mar. 21, 1980, gage height 21.94 ft, from rating curve extended above 13,000 ft³/s, on basis of slope-area measurements at gage heights 12.39 ft, 15.15 ft, and 20.70 ft; minimum daily, 9.3 ft³/s, Aug. 27, 1949.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 53,600 ft³/s, Jan. 19, gage height, 20.33 ft; minimum, 165 ft³/s, Oct. 2, gage height, 3.96 ft, from rating curve extended as explained above; minimum daily discharge, 168 ft³/s, Oct. 1-2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	168	894	e520	357	868	657	470	3300	728	398	522	350
2	168	1080	e510	359	754	601	512	1930	720	381	564	341
3	173	1120	e520	358	627	550	479	1400	627	562	528	335
4	179	981	539	363	536	481	458	1140	473	566	501	334
5	218	850	511	367	488	489	442	950	427	517	480	330
6	932	770	517	e350	461	500	419	927	400	459	465	365
7	490	768	491	e340	461	458	435	810	387	435	444	706
8	386	786	469	e340	478	421	454	715	878	424	425	640
9	337	683	463	e340	454	376	428	654	1360	418	433	533
10	299	610	e430	e330	392	379	408	639	1860	406	426	448
11	263	597	e410	e330	375	361	382	1020	1540	388	400	407
12	249	8770	e390	e330	329	355	399	1690	999	378	387	387
13	244	2560	e390	e340	270	356	557	1350	847	3240	379	460
14	292	1690	e390	360	e270	402	1270	1100	714	2550	369	935
15	622	2160	e410	351	e270	510	1150	916	606	1840	363	886
16	481	1560	416	344	e260	534	3610	840	519	2050	366	752
17	414	1210	396	365	e380	491	2780	745	464	1250	362	652
18	380	989	385	429	e400	489	1730	690	455	895	355	2490
19	360	855	387	21800	e410	491	1310	626	506	766	352	1070
20	344	744	406	7080	e480	1020	1170	550	623	716	345	744
21	e9000	672	395	2430	e1200	839	1170	512	567	567	338	632
22	e4300	677	400	1510	1230	757	1030	480	527	486	334	583
23	e1700	627	389	1160	1270	673	999	474	498	438	335	634
24	e1200	586	385	1990	1480	603	1210	447	469	436	370	559
25	895	578	381	2020	1300	563	947	432	458	558	342	546
26	805	554	378	1340	1060	594	832	402	436	1270	331	506
27	711	532	375	10400	908	578	766	382	417	778	340	481
28	2040	527	367	4870	865	561	676	366	417	645	583	660
29	1630	e520	362	2200	752	545	1140	352	395	571	397	1420
30	1270	e520	356	1520	---	515	2430	349	412	538	367	950
31	1040	---	358	1140	---	487	---	476	---	520	361	---
TOTAL	31590	35470	13096	65813	19028	16636	30063	26664	19729	25446	12564	20136
MEAN	1019	1182	422	2123	656	537	1002	860	658	821	405	671
MAX	9000	8770	539	21800	1480	1020	3610	3300	1860	3240	583	2490
MIN	168	520	356	330	260	355	382	349	387	378	331	330

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 1996, BY WATER YEAR (WY)

	463	785	879	825	788	1178	1394	886	595	496	392	387
MEAN												
MAX	2509	1699	2083	2123	2756	2810	3309	2320	1216	1364	1460	1194
(WY)	1956	1943	1974	1996	1981	1936	1940	1989	1972	1945	1933	1937
MIN	22.3	43.6	178	145	137	406	552	410	233	52.0	44.9	27.3
(WY)	1942	1965	1965	1981	1980	1960	1985	1993	1933	1965	1962	1962

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1932 - 1996	
ANNUAL TOTAL	241420		316235		755	
ANNUAL MEAN	661		864		1035	
HIGHEST ANNUAL MEAN					1952	
LOWEST ANNUAL MEAN					419	
HIGHEST DAILY MEAN	9000	Oct 21	21800	Jan 19	24400	Aug 24 1933
LOWEST DAILY MEAN	139	Jul 10	168	Oct 1	9.3	Aug 27 1949
ANNUAL SEVEN-DAY MINIMUM	146	Jul 4	296	Oct 8	16	Sep 24 1943
10 PERCENT EXCEEDS	1170		1410		1470	
50 PERCENT EXCEEDS	515		512		540	
90 PERCENT EXCEEDS	171		348		164	

e Estimated

HUDSON RIVER BASIN

01362500 ESOPUS CREEK AT COLDBROOK, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: June to September 1996.

INSTRUMENTATION.--Water-temperature satellite and telephone telemeter provides 15-minute-interval readings.

REMARKS.--Interruptions of record were due to malfunction of recording instrument.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 21.0°C, Aug. 22, 25, 26, Sept. 2, 3.

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

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

01364500 ESOPUS CREEK AT MOUNT MARION, NY

LOCATION.--Lat 42°02'16", long 73°58'21", Ulster County, Hydrologic Unit 02020006, on left bank at downstream side of bridge on Glasco Turnpike, 0.8 mi east of Mount Marion, 1.6 mi downstream from Plattekill Creek, and 4.5 mi upstream from mouth.

DRAINAGE AREA.--419 mi².

PERIOD OF RECORD.--April 1907 to December 1913, January 1914 to March 1918 (monthly discharges only, published in WSP 1302), March 1970 to current year. Occasional miscellaneous measurements, 1902, 1951, 1956, 1966, 1967, 1969.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 40.16 ft above sea level. Prior to Aug. 12, 1970, nonrecording gage at same site (at different datum April 1907 to March 1918, and at present datum June 9, 1966 to Aug. 12, 1970).

REMARKS.--Records poor. Flow from 256 mi² of drainage area regulated by Ashokan Reservoir since Sept. 9, 1913. Water diverted from Schoharie Creek through Shandaken Tunnel (see Reservoirs in Hudson River Basin) since Feb. 3, 1924, enters Esopus Creek about 12.2 mi upstream from Ashokan Reservoir. Diversion from Plattekill Creek for water supply of village of Saugerties. Slight diversion at headwaters into Cooper Lake for water supply of Kingston. Diversions upstream during summer months for irrigation purposes. Diversions for water supply of city of New York made from Ashokan Reservoir (see Reservoirs in Hudson River Basin). Discharge records for this station now represent the natural flow from 112 mi², together with spillage during high stages from the upstream reservoirs.

AVERAGE DISCHARGE.--26 years (water years 1971-96), 464 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 28,000 ft³/s, Apr. 26, 1910, gage height, 25.10 ft, datum then in use; maximum discharge since March 1970, 22,500 ft³/s, Apr. 5, 1987, gage height, 24.78 ft; minimum discharge, 7.9 ft³/s, July 17, 18, 1993, gage height, 11.64 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,600 ft³/s, Jan. 20, gage height, 21.72 ft, from crest-stage gage; minimum discharge, 18 ft³/s, Oct. 1, 2, 3, 4; minimum gage height, 11.86 ft, Oct. 2, 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	e280	191	e100	2110	1110	651	4920	166	103	334	42
2	18	e360	e210	e100	1890	917	712	4880	132	91	294	40
3	18	e460	e200	e100	1540	803	705	3820	137	106	234	37
4	19	e470	e190	e110	e1100	675	619	2850	422	150	203	35
5	29	e380	185	e100	e900	573	547	2100	404	147	174	35
6	e370	e320	191	e95	e750	620	525	1830	290	111	151	34
7	e280	e290	187	e92	e620	694	478	1600	212	90	130	39
8	e140	e470	173	e90	e540	e580	611	1280	324	85	113	58
9	e96	e380	167	e90	e450	e560	617	1110	664	139	107	83
10	e68	e320	e150	e90	e400	e540	586	971	1550	141	127	71
11	e56	e280	e140	e88	e370	e550	627	1100	3440	99	114	58
12	e47	e2700	e140	e88	e310	e570	e500	3250	2730	81	96	49
13	e37	e2300	136	e88	e280	583	e600	2960	1780	3030	87	52
14	e38	e1400	133	e88	e250	612	e900	2390	1350	e6000	81	83
15	e160	e2500	146	e90	e230	789	1270	1870	879	5690	75	84
16	e150	e1800	e140	e90	e210	1110	2750	1590	612	5560	69	69
17	e100	e1300	e130	e96	e190	1100	3670	1500	423	3920	68	78
18	e83	e890	e130	e120	e180	1030	4230	1470	338	2370	64	615
19	e71	e740	e120	e560	164	961	3440	1400	311	1450	59	538
20	e60	e660	e120	e6600	160	1360	2630	1080	364	1060	59	284
21	e450	454	e110	e2700	711	1790	2100	916	354	725	53	195
22	e1620	394	e120	e1600	1980	1760	1840	833	331	485	50	156
23	e790	341	e110	e1100	2660	1510	1570	671	262	339	50	182
24	e510	299	e110	e1400	2880	1320	1600	498	251	264	89	172
25	e340	266	e110	e2400	3030	1080	1490	377	173	227	90	165
26	e270	244	e110	e1300	2590	1000	1270	311	143	559	71	150
27	e190	230	e110	e3000	1990	976	1190	243	133	856	58	131
28	e540	215	e110	e5900	1650	857	990	206	118	781	55	130
29	e680	208	e110	2430	1430	786	1340	179	97	580	56	1610
30	e430	197	e110	3050	---	741	3540	203	97	457	51	885
31	e340	---	e100	2590	---	693	---	229	---	365	48	---
TOTAL	8018	21148	4389	36345	31565	28250	43598	48637	18487	36061	3310	6160
MEAN	259	705	142	1172	1088	911	1453	1569	616	1163	107	205
MAX	1620	2700	210	6600	3030	1790	4230	4920	3440	6000	334	1610
MIN	18	197	100	88	160	540	478	179	97	81	48	34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 1996, BY WATER YEAR (WY)

	MEAN	221	437	461	487	497	793	1272	720	356	193	95.6	125
MAX	837	1978	1498	1887	1745	2049	3306	1664	1773	1163	426	609	
(WY)	1914	1914	1976	1978	1976	1977	1987	1978	1972	1996	1990	1987	
MIN	21.0	28.3	88.4	31.6	59.4	167	136	97.9	37.5	14.4	12.4	13.6	
(WY)	1981	1985	1981	1981	1980	1981	1985	1995	1991	1993	1993	1980	

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1914 - 1996
ANNUAL TOTAL	82704	285968	
ANNUAL MEAN	227	781	464
HIGHEST ANNUAL MEAN			908
LOWEST ANNUAL MEAN			98.5
HIGHEST DAILY MEAN	4440	Mar 9	17800
LOWEST DAILY MEAN	12	Sep 8	8.1
ANNUAL SEVEN-DAY MINIMUM	13	Sep 6	8.5
10 PERCENT EXCEEDS	456	2170	1210
50 PERCENT EXCEEDS	120	332	170
90 PERCENT EXCEEDS	21	70	32

e Estimated

HUDSON RIVER BASIN

01364959 RONDOUT CREEK ABOVE RED BROOK AT PEEKAMOOSE, NY

LOCATION.--Lat 41°56'13", long 74°22'30", Ulster County, Hydrologic Unit 02020007, 500 ft upstream from mouth of Red Brook, 0.8 mi upstream from outlet of Peekamoose Lake, and 0.8 mi north of Peekamoose.

DRAINAGE AREA.--5.36 mi².

PERIOD OF RECORD.--May to September 1996. Occasional discharge measurements, water years 1984-86, 1988-94.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,740 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good except those above 100 ft³/s, which are fair. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--May to September 1996: Peak discharges greater than base discharge of 150 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 10	1245	214	a2.84	Sept. 18	0230	228	c2.91
July 13	1515	*519	b*4.08				

a Recorded; outside gage height was 3.15 ft, from crest-stage gage.

b Recorded; outside gage height was 4.12 ft, from crest-stage gage.

c Recorded; outside gage height was 3.25 ft, from crest-stage gage.

Minimum discharge, 3.6 ft³/s, Sept. 2, 3, 4, gage height, 0.59 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	79	8.8	9.9	16	3.7
2	---	---	---	---	---	---	---	49	8.7	8.9	14	3.7
3	---	---	---	---	---	---	---	39	9.5	19	13	3.7
4	---	---	---	---	---	---	---	35	9.7	15	13	3.7
5	---	---	---	---	---	---	---	32	8.7	11	12	3.7
6	---	---	---	---	---	---	---	32	7.5	9.7	12	3.7
7	---	---	---	---	---	---	---	27	7.4	9.4	11	11
8	---	---	---	---	---	---	---	26	25	10	10	11
9	---	---	---	---	---	---	---	24	26	11	10	6.0
10	---	---	---	---	---	---	---	26	82	8.8	8.9	4.8
11	---	---	---	---	---	---	---	41	44	7.7	7.8	4.3
12	---	---	---	---	---	---	---	49	27	7.3	7.5	4.1
13	---	---	---	---	---	---	---	31	28	157	7.3	6.8
14	---	---	---	---	---	---	---	28	25	89	6.8	6.9
15	---	---	---	---	---	---	---	26	20	90	6.8	4.5
16	---	---	---	---	---	---	---	26	17	84	6.7	4.2
17	---	---	---	---	---	---	---	26	17	45	6.2	58
18	---	---	---	---	---	---	---	25	17	33	5.7	133
19	---	---	---	---	---	---	---	26	22	29	5.5	40
20	---	---	---	---	---	---	---	25	23	24	5.3	25
21	---	---	---	---	---	---	---	24	18	20	5.3	20
22	---	---	---	---	---	---	---	20	16	17	4.9	23
23	---	---	---	---	---	---	---	18	14	16	4.8	27
24	---	---	---	---	---	---	---	16	13	15	8.2	19
25	---	---	---	---	---	---	---	14	13	19	4.9	20
26	---	---	---	---	---	---	---	13	11	42	4.5	16
27	---	---	---	---	---	---	---	13	10	22	5.5	16
28	---	---	---	---	---	---	---	11	11	18	10	37
29	---	---	---	---	---	---	---	11	9.6	17	5.0	55
30	---	---	---	---	---	---	---	9.5	12	16	4.3	29
31	---	---	---	---	---	---	---	9.2	---	17	3.8	---
TOTAL	---	---	---	---	---	---	---	830.7	560.9	897.7	246.7	603.8
MEAN	---	---	---	---	---	---	---	26.8	18.7	29.0	7.96	20.1
MAX	---	---	---	---	---	---	---	79	82	157	16	133
MIN	---	---	---	---	---	---	---	9.2	7.4	7.3	3.8	3.7
CFSM	---	---	---	---	---	---	---	5.00	3.49	5.40	1.48	3.75
IN.	---	---	---	---	---	---	---	5.77	3.89	6.23	1.71	4.19

HUDSON RIVER BASIN

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01365000 RONDOUT CREEK NEAR LOWES CORNERS, NY

LOCATION.--Lat 41°52'00", long 74°29'12", Sullivan County, Hydrologic Unit 02020007, on left bank 100 ft downstream from small tributary, 350 ft upstream from bridge on county road, 1.1 mi upstream from Sugarloaf Brook, 1.1 mi east of Lowes Corners, and 1.5 mi southwest of Sundown.

DRAINAGE AREA.--38.3 mi².

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

REVISED RECORDS.--WSP 1702: 1952. WDR NY-90-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 874.44 ft above sea level. Prior to Oct. 4, 1938, nonrecording gage at highway bridge 350 ft downstream at datum 847.00 ft above sea level (levels by Board of Water Supply, City of New York). Oct. 4, 1938 to July 5, 1951, water-stage recorder at site 1.2 mi downstream; Oct. 4, 1938 to July 3, 1949, datum 847.00 ft above sea level and July 4, 1949 to July 5, 1951, datum 846.00 ft above sea level (levels by Board of Water Supply, City of New York).

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

AVERAGE DISCHARGE.--59 years, 98.4 ft³/s, 34.89 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 7,600 ft³/s, July 22, 1938, from rating curve extended above 2,600 ft³/s; maximum gage height, 10.6 ft, Apr. 4, 1987, from floodmarks; minimum discharge, 3.3 ft³/s, Sept. 16, 17, Oct. 17, 18, 1980.

EXTREMES 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)
Oct. 21	1615	2,550	6.73	Apr. 16	0930	1,270	5.65
Nov. 12	0415	2,200	6.46	Apr. 30	2115	1,630	5.98
Jan. 19	1800	*4,950	*8.61	June 10	1330	1,290	5.67
Jan. 27	1615	3,800	7.71	July 13	1600	2,230	6.49

Minimum discharge, 9.2 ft³/s, Oct. 1, 2, 3, 4.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	112	e94	e40	e170	167	121	760	41	72	104	20
2	9.4	213	e88	e39	e140	151	137	398	38	59	90	19
3	9.2	200	e80	e38	e120	134	122	287	41	139	83	18
4	12	168	e82	e37	e110	115	117	234	48	106	107	17
5	26	140	e82	e37	e100	119	113	193	39	88	88	18
6	173	123	e78	e36	e94	136	107	187	33	73	77	17
7	54	141	e72	e36	e90	117	113	159	30	66	70	34
8	34	158	e68	e35	e84	104	110	138	68	67	61	43
9	27	119	e62	e35	e78	e90	103	126	97	70	63	29
10	23	104	e64	e34	e72	e86	99	133	460	63	57	22
11	22	132	e62	e33	e66	e84	98	223	297	54	50	19
12	21	1190	62	e32	e60	e82	114	346	195	50	47	18
13	21	470	61	e32	e54	e86	208	235	172	783	48	22
14	53	363	61	e31	e52	106	344	196	157	635	44	28
15	107	553	65	e31	e50	148	264	168	127	704	41	21
16	61	353	66	e30	e49	140	864	165	108	690	41	19
17	49	272	62	e30	e47	121	539	154	102	358	39	87
18	44	228	e57	e35	e45	122	343	139	105	234	35	513
19	40	206	e54	2040	e43	126	270	128	126	188	32	166
20	38	184	e50	1020	58	242	237	112	152	149	31	97
21	1100	168	e48	375	223	185	218	115	123	116	29	74
22	604	153	e46	239	245	166	193	103	107	97	28	78
23	248	137	e44	178	278	149	193	90	99	89	26	98
24	168	124	e43	432	408	137	245	80	90	81	39	72
25	145	113	e42	382	333	137	187	72	91	114	28	77
26	112	107	e40	236	264	155	171	66	78	383	24	63
27	97	102	e40	1630	221	141	157	62	70	179	23	58
28	309	114	e40	962	e210	132	138	58	68	137	45	152
29	193	114	e40	437	e190	131	453	54	62	123	28	333
30	151	102	e43	305	---	124	801	49	84	117	23	170
31	128	---	e41	230	---	120	---	45	---	112	21	---
TOTAL	4088.2	6663	1837	9087	3954	4053	7179	5275	3308	6196	1522	2402
MEAN	132	222	59.3	293	136	131	239	170	110	200	49.1	80.1
MAX	1100	1190	94	2040	408	242	864	760	460	783	107	513
MIN	9.2	102	40	30	43	82	98	45	30	50	21	17
CFSM	3.44	5.80	1.55	7.65	3.56	3.41	6.25	4.44	2.88	5.22	1.28	2.09
IN.	3.97	6.47	1.78	8.83	3.84	3.94	6.97	5.12	3.21	6.02	1.48	2.33

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

	MEAN	63.5	101	115	94.3	94.3	161	221	136	71.7	49.0	34.5	37.6
	MAX	403	295	338	293	299	379	447	382	299	264	226	185
	(WY)	1956	1973	1974	1996	1981	1977	1940	1989	1972	1938	1938	1987
	MIN	4.92	5.88	29.8	18.2	21.0	60.5	64.8	41.3	18.7	9.18	7.19	5.95
	(WY)	1965	1965	1947	1981	1980	1970	1946	1941	1962	1962	1962	1964

e Estimated

HUDSON RIVER BASIN

01365000 RONDOUT CREEK NEAR LOWES CORNERS, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1937 - 1996	
ANNUAL TOTAL	30815.9		55564.2			
ANNUAL MEAN	84.4		152		98.3	
HIGHEST ANNUAL MEAN					152 1996	
LOWEST ANNUAL MEAN					49.1 1965	
HIGHEST DAILY MEAN	1190	Nov 12	2040	Jan 19	3500	Oct 15 1955
LOWEST DAILY MEAN	9.1	Sep 6	9.2	Oct 3	3.6	Sep 16 1980
ANNUAL SEVEN-DAY MINIMUM	9.5	Sep 3	19	Aug 31	4.1	Oct 13 1980
ANNUAL RUNOFF (CFSM)	2.20		3.96		2.57	
ANNUAL RUNOFF (INCHES)	29.93		53.97		34.88	
10 PERCENT EXCEEDS	176		306		211	
50 PERCENT EXCEEDS	52		100		58	
90 PERCENT EXCEEDS	13		31		14	

01367500 RONDOUT CREEK AT ROSENDALE, NY

LOCATION.--Lat 41°50'35", long 74°05'11", Ulster County, Hydrologic Unit 02020007, on left bank 30 ft upstream from bridge on James Street in Rosendale, and 3 mi upstream from Wallkill River.

DRAINAGE AREA.--383 mi².

PERIOD OF RECORD.--July 1901 to November 1903, October 1905 to December 1906 (monthly discharges only, published in WSP 1302), January 1907 to December 1913, January 1914 to January 1919 (monthly discharges only, published in WSP 1302), August 1926 to current year.

REVISED RECORDS.--WSP 756: 1933. WDR NY-90-1: Drainage Area. WDR NY-92-1: 1903.

GAGE.--Water-stage recorder. Datum of gage is 32.83 ft above sea level. Prior to January 1919, nonrecording gage at site 150 ft downstream at datum 6.00 ft higher. Aug. 3, 1926 to Sept. 10, 1969, at present site at datum 10.00 ft higher. Sept. 11, 1969 to Feb. 3, 1970, water-stage recorder, and June 9, 1970 to Jan. 18, 1971, nonrecording gage at site 0.2 mi upstream at datum 11.20 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Occasional regulation from hydroelectric plant upstream from station. Diversion upstream from station during navigation season for Delaware and Hudson Canal, 1901-19. Diversion from Rondout Creek through the emergency connection to the Delaware Aqueduct at Lackawack for New York City water supply during April 1944 to May 1951. Since October 1950, flow regulated by Rondout Reservoir (see Reservoirs in Hudson River Basin). Subsequent to May 1951, entire flow except for period of spilling, diverted from Rondout Reservoir for New York City water supply. Discharge records for this station now represent the natural flow from 288 mi² together with spillage during high flow from Rondout Reservoir. Telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,800 ft³/s, Oct. 16, 1955, gage height, 36.8 ft, present datum, from floodmarks, from rating curve extended above 17,500 ft³/s, on basis of contracted-opening measurement at gage height 33.93 ft, present datum; minimum discharge, 2.2 ft³/s, July 16, 1965; minimum daily, 3.0 ft³/s, July 16, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,800 ft³/s, July 13, gage height, 19.77 ft; minimum, 47 ft³/s, Oct. 3, 4, gage height, 8.77 ft; minimum daily, 48 ft³/s, Oct. 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	434	447	e310	e1000	962	496	5250	262	244	319	102
2	49	682	476	e300	e830	856	673	2300	261	210	297	96
3	48	888	448	e320	e750	769	615	1470	345	217	307	91
4	50	850	452	e300	e700	590	542	1220	810	319	273	85
5	72	666	455	e290	e660	582	501	1070	464	289	247	87
6	1590	574	449	e280	e620	753	476	1020	347	221	222	86
7	702	511	e390	e280	e580	691	484	1020	286	209	211	158
8	346	854	e340	e280	e550	e570	735	834	262	205	199	327
9	243	649	e320	e280	e520	e530	684	738	309	252	188	272
10	195	543	e300	e280	e500	e490	596	800	555	310	247	219
11	167	500	e410	e270	e490	e480	570	947	1140	209	213	174
12	150	6870	e500	e260	e480	e470	564	2070	659	200	175	146
13	114	3000	e600	e260	e470	e480	931	1440	547	6590	172	159
14	115	1920	e570	e260	e440	626	1640	1050	452	5460	164	356
15	534	4180	e550	e270	e420	1280	1290	868	283	2450	152	255
16	408	2740	e520	e240	e390	1780	4580	780	225	1740	137	191
17	250	1710	e500	e260	e370	1110	3760	871	209	1110	134	342
18	211	1280	e490	e300	e350	948	1900	783	310	780	135	4500
19	181	1110	e470	e2000	e340	908	1340	809	315	565	127	1820
20	151	1010	e450	9350	e320	1810	1080	669	542	536	115	874
21	1740	917	e440	3200	1600	1560	873	642	490	421	110	570
22	2880	797	e430	1790	2370	1220	717	863	336	343	109	436
23	1200	661	e420	1300	2210	983	660	645	291	308	105	527
24	734	593	e410	1760	2320	834	1170	554	234	297	123	441
25	526	531	e380	3310	2200	751	862	460	212	277	178	465
26	397	509	e370	1690	1730	720	733	413	209	692	137	394
27	331	487	e360	6340	1380	671	680	371	207	857	112	337
28	1100	468	e350	9070	1280	600	598	345	201	571	165	322
29	1020	506	e340	2920	1240	579	1450	321	202	371	175	2520
30	645	469	e330	1810	---	579	3560	299	204	318	128	1430
31	499	---	e320	1370	---	543	---	276	---	309	113	---
TOTAL	16698	36909	13287	50950	27110	25725	34760	31198	11169	26880	5489	17782
MEAN	539	1230	429	1644	935	830	1159	1006	372	867	177	593
MAX	2880	6870	600	9350	2370	1810	4580	5250	1140	6590	319	4500
MIN	48	434	300	240	320	470	476	276	201	200	105	85

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1996, BY WATER YEAR (WY)

	331	560	679	635	714	1157	1185	728	417	220	190	220
MEAN	331	560	679	635	714	1157	1185	728	417	220	190	220
MAX	2473	1456	2101	2043	2057	2379	2524	2302	2180	867	1220	1175
(WY)	1956	1973	1974	1979	1981	1977	1983	1989	1972	1996	1955	1987
MIN	22.0	34.8	147	75.0	126	316	313	201	68.0	29.0	24.1	16.8
(WY)	1965	1965	1965	1981	1980	1981	1985	1965	1965	1965	1964	1964

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1952 - 1996
ANNUAL TOTAL	173358	297957	
ANNUAL MEAN	475	814	586
HIGHEST ANNUAL MEAN			892
LOWEST ANNUAL MEAN			255
HIGHEST DAILY MEAN	10100	9350	23500
LOWEST DAILY MEAN	41	48	3.0
ANNUAL SEVEN-DAY MINIMUM	43	94	15
10 PERCENT EXCEEDS	894	1740	1350
50 PERCENT EXCEEDS	290	488	300
90 PERCENT EXCEEDS	63	173	65

e Estimated

HUDSON RIVER BASIN

01371500 WALLKILL RIVER AT GARDINER, NY
(National water-quality assessment program station)

LOCATION.--Lat 41°41'10", long 74°09'56", Ulster County, Hydrologic Unit 02020007, on left bank 400 ft upstream from bridge on U.S. Highway 44, 500 ft downstream from Shawangunk Kill, and 0.7 mi northwest of Gardiner. Water-quality sampling site at discharge station.

DRAINAGE AREA.--695 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1924 to current year.

REVISED RECORDS.--WSP 756: Drainage area. WDR NY-90-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 185.70 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Regulation at low flows by dams upstream and some diversions for municipalities and irrigational purposes. Telephone gage-height telemeter at station.

AVERAGE DISCHARGE.--72 years, 1,071 ft³/s, 20.93 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,800 ft³/s, Oct. 16, 1955, gage height, 19.81 ft; minimum, 9.5 ft³/s, Sept. 28, 1964; minimum gage height, 1.59 ft, Aug. 14, 15, 16, 19, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 12	1315	6,590	7.57	Feb. 22	1515	a7,500	b12.57
Nov. 15	1130	7,680	8.20	Apr. 16	1845	8,570	8.71
Jan. 20	0700	a14,000	b*16.36	May 1	0530	7,470	8.08
Jan. 25	0745	a9,000	b14.06	July 13	2200	11,500	10.40
Jan. 28	1015	*19,000	14.15	Sept. 18	1345	7,680	8.20

a About.

b Ice jam.

Minimum discharge, 55 ft³/s, Oct. 3, 4, gage height, 1.95 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	952	840	e420	e7000	1780	1180	6570	479	542	798	146
2	64	1090	825	e420	e6000	1520	1950	4820	434	502	677	145
3	57	1370	860	e400	e5000	1380	2120	3540	540	577	604	144
4	58	1170	799	e400	e4000	1180	1800	2920	1770	762	539	134
5	118	946	765	e390	e3200	1130	1530	2450	1500	655	643	129
6	3560	762	768	e380	e2600	1500	1360	2350	1280	530	555	127
7	2810	734	746	e390	e2100	1750	1290	2590	854	397	383	220
8	1510	1290	683	e400	e1800	1390	1910	2110	677	308	384	529
9	1030	1160	560	e420	e1700	1260	1890	1740	542	334	340	484
10	613	920	530	e440	e1600	1260	1670	1730	433	662	327	522
11	414	807	e520	e440	e1500	1280	1460	1880	453	566	312	394
12	328	5090	e510	e420	e1400	1300	1280	3630	429	372	284	312
13	256	4520	e500	e400	e1200	1350	1710	3290	412	5290	291	279
14	269	3990	e500	e390	e1100	1700	2540	2500	451	8700	462	779
15	528	6980	e700	e380	e1000	3030	2340	2070	476	5910	474	721
16	873	6370	e660	e380	e1000	3580	5920	1720	410	4480	367	502
17	768	5060	e600	e400	e920	2560	6470	1750	318	3040	383	800
18	544	3930	e580	e700	e900	2080	4650	1600	447	2020	567	6460
19	457	3120	e560	e4000	e900	1830	3480	1570	526	1400	430	5190
20	357	2570	e540	e12000	e1000	2600	2720	1330	689	1130	317	2960
21	1000	2130	e540	e8000	e2000	2630	2210	1140	704	882	260	1880
22	3060	1840	e520	e7000	e7000	2340	1810	1100	587	703	215	1270
23	2270	1530	e520	e5400	e6000	1980	1570	929	494	579	246	1180
24	1700	1330	e500	e7600	e4600	1650	1880	823	395	558	267	1020
25	1330	1170	e500	e10000	e4000	1430	1560	715	350	593	379	1010
26	1040	1030	e480	e7400	3430	1280	1320	628	325	4320	230	813
27	811	974	e480	e9700	2700	1170	1180	632	289	3800	254	708
28	1480	898	e460	e15000	2450	975	997	558	231	2000	324	611
29	1850	832	e460	e13000	2220	1020	1880	574	258	1190	269	1580
30	1450	827	e440	e10000	---	1150	4580	565	304	884	219	1510
31	1170	---	e440	e8000	---	1250	---	536	---	771	187	---
TOTAL	31847	65392	18386	125670	80320	52335	68257	60360	17057	54457	11987	32559
MEAN	1027	2180	593	4054	2770	1688	2275	1947	569	1757	387	1085
MAX	3560	6980	860	15000	7000	3580	6470	6570	1770	8700	798	6460
MIN	57	734	440	380	900	975	997	536	231	308	187	127
CFSM	1.48	3.14	.85	5.83	3.99	2.43	3.27	2.80	.82	2.53	.56	1.56
IN.	1.70	3.50	.98	6.73	4.30	2.80	3.65	3.23	.91	2.91	.64	1.74

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 1996, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1925	523	4217	1956	58.2	1965
1926	999	3407	1957	76.1	1966
1927	1178	3279	1958	157	1967
1928	1219	4054	1959	102	1968
1929	1427	3084	1960	241	1969
1930	2325	5947	1961	669	1970
1931	1924	5466	1962	463	1971
1932	1154	4087	1963	239	1972
1933	717	3688	1964	98.2	1973
1934	485	2735	1965	33.6	1974
1935	451	3333	1966	21.6	1975
1936	480	2664	1967	18.9	1976

e Estimated

HUDSON RIVER BASIN

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01371500 WALLKILL RIVER AT GARDINER, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1925 - 1996	
ANNUAL TOTAL	298890		618627			
ANNUAL MEAN	819		1690		1071	
HIGHEST ANNUAL MEAN					1900 1928	
LOWEST ANNUAL MEAN					390 1965	
HIGHEST DAILY MEAN	9840	Mar 9	15000	Jan 28	25200	Aug 19 1955
LOWEST DAILY MEAN	19	Sep 9	57	Oct 3	10	Sep 28 1964
ANNUAL SEVEN-DAY MINIMUM	21	Sep 6	145	Aug 31	13	Sep 17 1964
ANNUAL RUNOFF (CFSM)	1.18		2.43		1.54	
ANNUAL RUNOFF (INCHES)	16.00		33.11		20.95	
10 PERCENT EXCEEDS	1840		4100		2680	
50 PERCENT EXCEEDS	500		949		565	
90 PERCENT EXCEEDS	58		325		110	

HUDSON RIVER BASIN

01371500 WALLKILL RIVER AT GARDINER, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1958, 1971, April 1993 to current year.

CHEMICAL DATA: 1958 (e), 1971 (a), 1993 (c), 1994 (d), 1995 (c), 1996 (a).

PESTICIDE DATA: 1993-94, 1996 (a).

ORGANIC DATA: OC--1993 (c), 1994 (d), 1995 (c).

PCB--1993 (a).

PCN--1993 (a).

NUTRIENT DATA: 1958 (e), 1971 (a), 1993 (c), 1994 (d), 1995 (c), 1996 (a).

BIOLOGICAL DATA:

Bacteria--1993 (a).

Phytoplankton--1993 (a).

SEDIMENT DATA: 1993 (c), 1994 (d), 1995 (c), 1996 (a).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1957 to September 1958, June 1993 to September 1995.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 33.0°C, July 9, 1993; minimum daily (water years 1958, 1994-95), 0.0°C on many days during winter periods.

REVISIONS.--The pesticide data published in the 1994 annual data report (WDR NY-94-1) are republished here because many of the method detection limits were revised after reevaluation of method performance. Revised method detection limits are listed after the NAWQA section Introduction.

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	CHLOR-PYRIFOS, DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	METO-LACHLOR, WATER, DISS, DISSOLV (UG/L) (39415)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)
MAY 31...	1820	0.043	0.010	0.016	0.120	0.270

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER- CENT SATUR- ATION) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	
JUN 27...	1130	288	208	7.8	28.0	22.5	760	9.4	109	--
JUL 13...	2100	11400	161	7.2	24.0	20.0	747	8.6	96	52

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM WHOLE FIELD (STAND- ARD UNITS) (00400)	SODIUM AD-SORP- TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
JUN 27...	--	--	--	--	--	--	--	--	--	--
JUL 13...	15	3.6	8.6	26	0.5	1.8	29	11	14	0.10

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM- MONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
JUN 27...	--	--	--	--	--	--	--	--	--	--
JUL 13...	4.3	96	88	0.010	0.600	0.040	1.4	0.50	0.320	0.080

HUDSON RIVER BASIN

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01371500 WALLKILL RIVER AT GARDINER, NY--Continued

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

DATE	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)
JUN 27...	--	--	--	0.006	0.120	<0.003	<0.003	0.024	0.140	E0.006
JUL 13...	0.090	160	6.0	0.058	0.430	E0.015	E0.014	0.017	0.190	E0.055

DATE	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
JUN 27...	0.026	0.006	0.081	0.770	0.005	<0.003	0.012	0.012	<0.007
JUL 13...	0.007	<0.001	0.063	0.390	0.010	0.066	0.026	0.015	E0.013

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
JUL 13...	2100 11400		203	87

E Estimate.

HUDSON RIVER BASIN

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, NY
(National water-quality assessment program station)

LOCATION.--Lat 41°43'18", long 73°56'28", Dutchess County, Hydrologic Unit 02020008, at city pumping station on east bank, adjacent (north) to Marist College, 0.5 mi north of Poughkeepsie, and 1.3 mi upstream from Mid-Hudson Bridge.

DRAINAGE AREA.--11,700 mi².

PERIOD OF RECORD.--Water years 1969-75, June 1988 to current year.

CHEMICAL DATA: 1969 (c), 1970-71 (d), 1972 (b), 1973 (e), 1974-75 (d), 1988 (a), 1989-90 (b), 1991 (c), 1992 (a), 1993 (c), 1994 (d), 1995 (c), 1996 (a).

MINOR ELEMENTS DATA: 1969 (c), 1970-71 (d), 1972 (b), 1973-75 (d), 1988 (a), 1989-90 (b), 1991 (c), 1992 (a).

RADIOCHEMICAL DATA: 1974 (a), 1975 (d).

PESTICIDE DATA: 1993-94, 1996 (a).

ORGANIC DATA: OC--1974 (b), 1975 (d), 1993 (c), 1994 (d), 1995 (c).

PCB--1993 (a).

PCN--1993 (a).

NUTRIENT DATA: 1969 (c), 1970-71 (d), 1972 (b), 1973-75 (d), 1993 (c), 1994 (d), 1995 (c).

BIOLOGICAL DATA:

Bacteria--1973 (c), 1974-75 (d).

Phytoplankton--1973 (a), 1974 (b), 1975 (d), 1993 (a).

Periphyton--1974 (c), 1975 (a).

SEDIMENT DATA: 1973 (a), 1974 (b), 1975 (a), 1989-90 (b), 1991 (c), 1992 (a), 1993 (c), 1994 (d), 1995 (c).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: June 1959 to September 1966.

REMARKS.--Samples were collected by boat during the period of fastest ebb current of tidal cycle in cross section in vicinity of city pumping station, unless otherwise noted. Daily water-temperature measurements were made at approximately 0830 during water years 1959-63 and at approximately 0700 during water years 1964-66.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE (water years 1959-66): Maximum daily, 26.5°C, August 29, 1959; minimum daily, 0.0°C on many days during winter periods.

REVISIONS.--The pesticide data published in the 1994 annual data report (WDR NY-94-1) are republished here because many of the method detection limits were revised after reevaluation of method performance. Revised method detection limits are listed after the NAWQA section Introduction.

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	METO- LACHLOR WATER, DISSOLV (UG/L) (39415)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)
JUN 01...	1040	0.015	0.014	0.007

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

DATE	TIME	PH WATER WHOLE FIELD (STAND- ANCE (US/CM) (00095)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	
JUN 13...	1930	187	7.4	0.006	0.021	0.034

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LOCATION.--Lat 41°39'03", long 73°56'42", Dutchess County, Hydrologic Unit 02020008, on left bank at IBM pumping station, 3.5 mi south of the Mid-Hudson bridge, 2.3 mi south of Poughkeepsie. Water-quality sampling site at stage station.

DRAINAGE AREA.--11,861 mi².

PERIOD OF RECORD.--May 1992 to current year.

Water year 1996: Maximum elevation, 5.46 ft, Nov. 12; minimum, -3.79 ft, Mar. 4.

DAY	MAX	MIN	MEAN		MAX	MIN	MEAN		MAX	MIN	MEAN		MAX	MIN	MEAN
	FEBRUARY				MARCH				APRIL				MAY		
1	---	---	---		---	---	---		---	---	---		---	---	---
2	---	---	---		---	---	---		---	---	---		---	---	---
3	---	---	---		---	---	---		---	---	---		---	---	---
4	---	---	---		---	---	---		---	---	---		---	---	---
5	---	---	---		---	---	---		---	---	---		---	---	---
6	---	---	---		---	---	---		---	---	---		---	---	---
7	---	---	---		---	---	---		---	---	---		---	---	---
8	---	---	---		---	---	---		---	---	---		---	---	---
9	---	---	---		---	---	---		---	---	---		---	---	---
10	---	---	---		---	---	---		---	---	---		---	---	---
11	---	---	---		---	---	---		---	---	---		---	---	---
12	---	---	---		---	---	---		---	---	---		3.21	-.87	1.30
13	---	---	---		---	---	---		---	---	---		3.42	-.96	1.17
14	---	---	---		---	---	---		---	---	---		3.28	-1.08	1.12
15	---	---	---		---	---	---		---	---	---		3.34	-.92	.96
16	---	---	---		---	---	---		---	---	---		3.30	-1.06	.93
17	---	---	---		---	---	---		---	---	---		3.08	-.97	.92
18	---	---	---		---	---	---		---	---	---		3.21	-1.02	.95
19	---	---	---		---	---	---		---	---	---		2.55	-1.22	.77
20	---	---	---		---	---	---		---	---	---		2.96	-.82	.87
21	---	---	---		---	---	---		---	---	---		2.49	-1.15	.54
22	---	---	---		---	---	---		---	---	---		2.31	-1.03	.63
23	---	---	---		---	---	---		---	---	---		2.26	-.91	.91
24	---	---	---		---	---	---		---	---	---		2.56	-.72	.73
25	---	---	---		---	---	---		---	---	---		2.90	-.67	1.27
26	---	---	---		---	---	---		---	---	---		2.80	-.14	1.51
27	---	---	---		---	---	---		---	---	---		2.86	-.34	1.28
28	---	---	---		---	---	---		---	---	---		2.89	-.67	1.04
29	---	---	---		---	---	---		---	---	---		3.10	-1.04	.88
30	---	---	---		---	---	---		---	---	---		3.22	-1.04	.89
31	---	---	---		---	---	---		---	---	---		3.98	-.53	1.44
MONTH	---	---	---		---	---	---		---	---	---		---	---	---

HUDSON RIVER BASIN

01372058 HUDSON RIVER BELOW POUGHKEEPSIE, NY--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	3.96	-.37	1.64	3.77	-1.07	1.17	3.70	-1.25	1.02	2.65	-1.30	.72
2	3.90	-.43	1.61	3.41	-.86	1.25	3.03	-1.05	1.11	2.84	-1.15	.91
3	3.93	-.43	1.49	3.56	-.81	1.32	3.09	-1.02	1.22	3.01	-.49	1.21
4	3.77	-.55	1.41	3.57	-.44	1.53	3.22	-.65	1.39	2.65	-.84	.90
5	3.53	-.44	1.75	3.40	-.54	1.61	2.60	-1.10	.87	2.91	-.49	1.06
6	4.33	.25	2.20	3.23	-.55	1.57	2.63	-.94	.77	2.62	-.31	1.09
7	3.50	-.24	1.74	2.95	-.87	1.21	2.67	-.93	.74	2.76	-.35	1.06
8	3.13	-.57	1.40	3.07	-1.02	1.05	3.08	-.54	.98	3.08	-.45	1.08
9	3.02	-.81	1.21	3.05	-.53	1.33	3.01	-.48	1.21	2.79	-.63	1.03
10	3.32	-.72	1.21	3.00	-.74	.98	3.28	-.41	1.14	3.19	-.56	1.25
11	3.50	-.77	1.14	2.95	-1.04	.86	3.04	-.34	1.29	3.02	-.87	.89
12	3.46	-.75	1.18	3.32	-.58	1.06	2.83	-.80	.84	2.57	-1.10	.77
13	3.40	-.86	1.06	3.12	-.84	1.09	3.09	-.85	1.05	2.61	-.91	.94
14	3.42	-.62	1.16	3.64	-.67	1.32	3.18	-.20	1.50	2.65	-.81	1.01
15	3.42	-1.01	.91	3.65	-.36	1.41	3.30	-.29	1.50	2.63	-.82	.94
16	3.21	-.82	.93	3.47	-.16	1.68	3.16	-.40	1.32	2.63	-.91	.88
17	3.04	-.96	.89	3.70	-.13	1.65	2.71	-.51	1.17	2.79	-.82	.96
18	3.03	-.76	1.18	3.41	-.18	1.49	2.79	-.60	1.19	2.93	-.63	1.13
19	3.17	-.46	1.31	3.01	-.52	1.28	2.81	-.46	1.26	2.44	-.74	.90
20	3.20	-.38	1.43	2.66	-.68	1.18	2.64	-.69	1.02	3.01	-.59	1.02
21	2.63	-.62	1.14	2.54	-.79	1.01	2.65	-.65	.94	3.24	-.36	1.31
22	1.91	-.97	.65	2.48	-1.04	.89	2.52	-1.11	.67	3.50	-.23	1.53
23	2.44	-.78	.87	3.04	-.37	1.31	2.91	-.84	.91	2.66	-1.47	.65
24	3.09	-.39	1.32	2.98	-.25	1.36	3.10	-.87	.97	3.91	-1.01	1.43
25	2.89	-.59	1.28	3.24	-.57	1.19	3.05	-1.20	.87	4.00	-.16	1.92
26	3.35	-.43	1.26	3.56	-.72	1.26	3.43	-.91	1.10	4.13	-.14	1.94
27	3.40	-.64	1.22	3.69	-.68	1.39	3.62	-.79	1.31	3.61	-.72	1.43
28	3.49	-.90	1.09	3.31	-1.04	1.10	4.37	-.58	1.70	3.32	-.95	1.19
29	3.78	-.78	1.23	3.53	-.82	1.19	4.45	-.89	1.56	2.81	-1.47	.72
30	3.75	-.65	1.37	3.52	-.99	1.13	3.23	-1.13	1.15	2.61	-1.25	.59
31	---	---	---	3.44	-.84	1.46	2.97	-1.17	.96	---	---	---
MONTH	4.33	-1.01	1.28	3.77	-1.07	1.27	4.45	-1.25	1.12	4.13	-1.47	1.08

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	2.47	-1.18	.66	2.02	-.76	.79	2.37	-.89	.87	2.18	-2.02	.09
2	2.96	-.41	1.13	2.77	-.79	1.18	2.77	-.27	1.39	1.52	-2.16	.08
3	2.34	-.92	.65	2.94	.24	1.57	2.49	-1.36	.52	2.15	-1.38	.69
4	2.69	-.74	.82	2.78	-.12	1.51	2.12	-1.64	.73	2.68	-.91	.88
5	2.60	-.04	1.21	2.45	-.11	1.23	1.62	-1.93	-.31	3.25	-.78	.87
6	2.58	-.20	1.18	2.46	-.57	.87	1.55	-3.06	-.28	3.02	-1.80	.84
7	2.46	-.46	.96	2.67	-.68	.91	1.89	-2.04	-.13	3.66	-.53	1.42
8	2.87	-.66	.98	2.81	-.89	.82	2.47	-1.96	.22	3.69	-.58	1.37
9	3.48	-.30	1.53	2.81	-.96	.80	2.92	-1.23	.63	3.55	-.93	1.26
10	3.27	-.38	1.48	2.88	-.98	.94	4.18	-1.02	1.46	3.95	-.43	1.62
11	3.26	-.28	1.48	3.16	-.64	1.08	6.82	2.21	4.33	3.49	-.71	1.35
12	3.11	-.44	1.32	3.00	-1.15	1.01	5.42	1.04	2.98	3.14	-.80	1.16
13	2.90	-.50	1.16	3.78	-.94	1.59	4.96	.29	2.73	3.57	-.09	1.73
14	3.05	-.68	1.13	2.53	-1.36	.56	5.09	.96	3.05	3.79	-.08	1.78
15	3.10	-.67	1.15	2.90	-.81	.93	4.03	-.21	2.02	3.66	-.69	1.56
16	3.20	-.61	1.28	2.51	-1.19	.60	2.90	-.61	1.38	2.73	-.82	1.03
17	2.33	-1.27	.70	2.61	-.88	.94	2.89	-.64	1.36	3.41	-.32	1.47
18	3.01	-.66	1.10	2.48	-1.12	.82	2.44	-1.12	.51	1.68	-1.67	.13
19	2.86	-.52	1.24	2.44	-.98	.86	2.90	-1.30	1.03	2.34	-1.85	.12
20	3.16	-.76	1.41	2.83	-1.09	.93	3.48	-.71	1.06	2.36	-1.81	.03
21	2.59	-.64	1.05	2.88	-1.14	.92	2.05	-1.97	.17	2.72	-1.74	.59
22	2.46	-1.19	.69	3.22	-.87	1.08	3.33	-1.10	.96	3.68	-.54	1.36
23	2.91	-1.08	1.03	3.61	-.77	1.35	3.49	-.77	1.16	2.59	-1.22	.66
24	3.05	-.86	1.06	4.10	-.34	1.86	2.35	-2.64	-.10	3.30	-.73	1.32
25	2.91	-1.42	.71	4.26	.02	2.01	2.75	-1.94	.43	3.08	-1.55	.41
26	3.01	-1.31	.72	4.02	-.16	1.74	2.02	-2.16	-.24	2.21	-1.44	.43
27	2.64	-1.48	.55	3.11	-.52	1.28	2.16	-1.84	-.03	2.74	-.69	1.15
28	3.03	-1.21	.87	3.02	-.44	1.12	1.98	-1.17	.46	2.26	-.55	.88
29	3.02	-.97	.96	2.97	-.53	1.23	2.07	-1.02	.66	2.19	-2.48	.15
30	2.52	-.90	.78	2.26	-.94	.74	2.03	-.53	.71	.67	-2.48	-.78
31	2.56	-.58	.89	---	---	---	2.87	.00	1.62	2.00	-1.75	.69
MONTH	3.48	-1.48	1.03	4.26	-1.36	1.11	6.82	-3.06	1.01	3.95	-2.48	.85

HUDSON RIVER BASIN

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01372050 HUDSON RIVER BELOW POUGHKEEPSIE, NY--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	3.01	-1.22	.56	3.45	.29	1.90	4.18	1.26	2.81	3.21	-.43	1.56
2	2.82	-1.95	.34	2.81	-.56	1.03	4.29	1.24	2.77	3.28	-.83	1.29
3	3.67	-.33	1.54	2.75	-.51	1.04	3.86	.34	2.12	3.67	-.76	1.31
4	2.37	-2.15	.33	4.23	-.69	1.53	3.46	-.37	1.53	3.53	-.94	1.32
5	3.41	-1.41	1.05	4.76	.42	2.71	4.08	-.15	1.80	3.83	-.92	1.18
6	2.90	-1.58	.46	4.06	-.39	1.79	4.51	-.08	1.90	3.83	-.90	1.34
7	3.63	-1.32	1.20	3.36	-.89	1.24	4.51	.02	2.07	3.62	-.95	1.13
8	3.50	-1.41	1.05	3.26	-1.29	.98	4.46	-.07	1.91	3.56	-.56	1.31
9	3.04	-1.62	.85	3.30	-1.32	.86	4.18	-.05	1.87	3.53	-.78	1.08
10	3.23	-1.19	1.02	2.89	-1.28	.99	4.21	.46	2.29	3.04	-.69	1.33
11	2.77	-1.19	.77	3.64	-1.74	.88	4.58	.66	2.32	3.63	-.38	1.41
12	3.89	.08	1.99	2.20	-1.62	.26	3.99	.23	1.98	2.87	-.20	1.58
13	4.31	-1.11	1.66	3.46	-.89	1.73	3.04	.24	1.73	3.35	-.15	1.67
14	2.19	-1.17	.27	5.20	-4.38	.29	3.30	.29	1.86	3.02	-.16	1.52
15	2.43	-1.43	.68	.23	-4.38	-1.94	3.06	.30	1.78	3.33	.06	1.69
16	3.06	-1.05	1.20	1.84	-1.74	.25	3.86	.75	2.20	2.65	-.56	1.25
17	2.02	-2.04	.22	1.85	-1.25	.19	3.72	.48	2.39	3.14	-.54	1.15
18	2.51	-1.72	.43	1.46	-2.35	-.76	3.18	-.30	1.48	3.26	-.45	1.21
19	2.37	-1.82	.44	2.53	-.94	.74	3.54	.23	1.72	3.53	-.12	1.51
20	3.34	-.77	1.18	2.44	-1.15	.74	3.59	.04	1.61	3.65	-.07	1.67
21	3.42	-1.10	1.10	2.35	-1.10	.68	3.56	-.17	1.59	3.62	-.46	1.36
22	3.68	-.17	1.85	2.20	-1.45	.43	3.75	.04	1.86	3.62	-.72	1.18
23	3.37	-1.03	1.14	2.33	-1.42	.40	3.80	-.48	1.45	3.32	-.70	1.09
24	1.92	-1.93	.03	2.46	-.94	.79	3.59	.08	1.59	3.36	-.62	1.23
25	1.43	-1.90	-.11	2.81	-.74	.99	3.50	.21	1.76	3.43	-.63	1.16
26	2.32	-.96	.71	2.83	-.75	.87	3.60	-.90	1.25	2.87	-1.05	.82
27	2.47	-.83	.98	2.84	-.43	1.04	2.92	-.39	1.23	2.80	-1.07	.74
28	3.29	-.10	1.38	3.13	-.11	1.40	4.20	.82	2.38	2.71	-.97	1.09
29	---	---	---	3.33	.44	1.85	3.66	.28	2.03	2.75	-1.36	.84
30	---	---	---	4.11	1.34	2.57	3.32	.02	1.88	2.64	-1.47	.71
31	---	---	---	4.27	1.42	2.66	---	---	---	3.78	-.82	1.28
MONTH	4.31	-2.15	.87	5.20	-4.38	.97	4.58	-.90	1.91	3.83	-1.47	1.26
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	3.35	-1.12	1.31	3.42	-.90	.99	3.33	-.60	1.18	3.46	-.42	1.38
2	3.45	-.96	1.12	3.56	-.65	1.23	3.39	-.39	1.51	3.20	-.21	1.62
3	3.39	-1.12	.99	3.56	-.73	1.28	3.40	-.48	1.24	3.48	.19	1.84
4	3.46	-.92	1.05	3.47	-.75	1.15	3.02	-.69	1.09	2.96	-.51	1.21
5	3.49	-.72	1.24	3.27	-.71	1.20	2.64	-.83	.95	2.96	-.41	1.36
6	3.62	-1.09	1.07	3.37	-.55	1.36	2.59	-.78	1.07	3.09	-.33	1.50
7	3.14	-.76	1.11	3.25	-.51	1.26	2.95	-.19	1.52	2.70	-.37	1.22
8	3.04	-.88	1.12	2.80	-.70	1.20	2.66	-.61	1.20	2.96	-.13	1.31
9	3.21	-.54	1.32	2.87	-.49	1.31	2.58	-.61	1.11	3.40	.24	1.65
10	2.88	-.64	1.13	2.74	-.35	1.34	2.72	-.50	1.13	3.06	.15	1.59
11	2.45	-.67	.99	2.61	-.49	1.23	2.82	-.35	1.22	2.44	-.90	.78
12	2.60	-.55	1.09	2.55	-.27	1.25	2.97	-.08	1.36	3.24	-.59	1.12
13	2.63	-.53	1.13	2.69	-.26	1.25	3.15	-.15	1.35	3.11	-.66	1.23
14	2.76	-.65	1.05	2.99	-.41	1.11	3.33	-.42	1.32	3.18	-.82	1.13
15	3.25	-.41	1.21	2.56	-.97	.85	3.44	-.54	1.31	3.12	-.90	1.10
16	2.67	-1.00	.82	2.90	-.64	.95	3.49	-.58	1.39	3.34	-1.39	.90
17	3.09	-.84	.77	3.24	-.94	.84	3.54	-.44	1.51	3.95	-.41	1.73
18	3.12	-.82	.90	3.49	-.76	1.13	3.55	-.47	1.50	3.89	-.58	1.72
19	2.96	-1.13	.78	3.74	-.41	1.48	3.73	-.37	1.69	3.45	-.75	1.36
20	3.36	-.98	.99	3.76	-.64	1.37	3.64	-.39	1.65	3.31	-.76	1.32
21	3.45	-.60	1.25	3.38	-.86	1.10	3.30	-.63	1.32	3.27	-.53	1.41
22	3.54	-.70	1.23	3.11	-.87	1.08	3.43	-.60	1.50	3.15	-.60	1.35
23	2.85	-1.11	.72	2.95	-.94	1.06	3.42	-.51	1.56	3.55	-.04	1.66
24	2.91	-.87	1.08	2.82	-1.01	1.10	3.38	-.35	1.57	2.89	-.60	1.12
25	3.05	-.85	1.29	2.83	-1.04	1.12	2.85	-.63	1.23	3.23	-.42	1.35
26	2.93	-.82	1.26	3.21	-.52	1.51	2.92	-.65	1.02	3.33	-.03	1.77
27	2.87	-1.26	.97	3.21	-.28	1.54	3.21	-.48	1.21	3.35	-.21	1.49
28	3.19	-.86	1.23	3.27	-.62	1.25	3.16	-.26	1.39	2.45	-.94	.88
29	3.18	-1.07	1.05	3.53	-.36	1.41	3.22	-.61	1.12	2.59	-.77	.94
30	3.13	-1.04	.99	3.43	-.29	1.42	3.24	-.36	1.33	2.97	-.72	1.14
31	---	---	---	3.13	-.68	1.18	3.45	-.36	1.53	---	---	---
MONTH	3.62	-1.26	1.08	3.76	-1.04	1.21	3.73	-.83	1.33	3.95	-1.39	1.34

HUDSON RIVER BASIN

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ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	3.13	-.56	1.42	3.62	-1.39	1.24	3.13	-.83	1.00	2.40	-2.34	.02
2	3.19	-.22	1.53	1.61	-2.05	-.17	3.28	-.52	1.23	2.86	-1.25	.80
3	2.86	-.71	1.08	3.06	-.52	1.10	3.19	-.64	1.20	2.83	-1.66	.70
4	3.02	-.57	1.16	2.81	-.76	.99	3.51	-.19	1.51	4.64	-.53	2.47
5	2.36	-1.33	.61	3.52	-.16	1.47	3.49	-.88	1.80	2.01	-2.68	.00
6	---	---	---	2.90	-.65	1.32	3.89	-.97	1.82	1.47	-3.12	-.45
7	---	---	---	2.16	-.92	.73	3.59	-.39	1.53	2.60	-1.86	.42
8	2.30	-.93	.69	2.24	-1.07	.79	3.18	-.75	1.37	3.54	-1.04	.94
9	3.65	-.60	1.59	2.28	-1.28	.64	3.24	-.80	1.34	1.56	-2.38	-.54
10	2.24	-.97	.62	2.51	-1.38	.75	3.79	-.63	1.83	.85	-2.98	-1.13
11	3.28	-1.04	1.16	3.06	-1.19	1.17	4.01	-.59	1.45	2.27	-2.23	.06
12	3.35	-.41	1.69	3.08	-1.29	.86	3.12	-1.43	.74	2.78	-1.49	.60
13	3.01	-1.35	.99	3.09	-1.63	.82	3.10	-1.27	.88	3.74	-.80	1.32
14	3.05	-1.30	.96	3.42	-1.04	1.10	4.46	-.18	1.84	4.09	-.51	1.67
15	3.43	-.91	1.18	3.29	-1.23	.91	4.02	-.41	1.69	2.63	-1.43	.73
16	3.39	-1.06	1.20	2.87	-1.62	.63	3.78	-.14	1.76	.91	-2.11	-.57
17	3.77	-.85	1.45	3.08	-.98	1.04	4.40	.45	2.39	2.01	-.88	.49
18	3.29	-.73	1.34	2.43	-1.32	.66	3.34	-.55	1.51	2.34	-1.89	.39
19	3.22	-.90	1.11	3.52	-.05	1.65	2.68	-.76	1.18	.52	-1.92	-.60
20	3.43	-.39	1.51	3.02	-2.10	.85	2.31	-.72	1.01	.91	-1.40	-.14
21	3.56	-.19	1.92	1.70	-2.12	.03	3.50	-.48	2.03	1.35	-1.16	.23
22	1.97	-1.24	.25	1.46	-1.14	.19	.80	-2.35	-.51	1.22	-1.52	-.18
23	1.85	-1.30	.33	1.87	-1.48	.46	1.78	-1.42	.34	1.79	-1.95	.16
24	2.52	-.89	1.01	2.67	-.85	.93	2.62	-.99	1.07	2.57	-.86	.81
25	1.87	-1.06	.51	2.32	-1.63	.77	2.90	-.15	1.31	---	-1.17	---
26	3.44	-.86	1.60	2.52	-1.00	.70	1.71	-2.46	-.16	2.79	-1.00	.86
27	3.69	.24	2.01	3.58	-1.11	1.30	1.01	-3.47	-1.16	2.73	-.91	.84
28	3.49	-.19	1.73	5.55	1.12	3.08	1.98	-2.23	-.24	3.85	-.66	1.56
29	2.99	-.47	1.31	3.20	-.51	1.26	2.82	-1.71	.65	3.35	-1.22	1.06
30	3.13	-.55	1.26	2.93	-.74	.89	2.68	-2.14	.29	2.46	-1.39	.55
31	4.02	.31	1.88	---	---	---	2.60	-1.89	.23	2.95	-.93	.96
MONTH	---	---	---	5.55	-2.12	.94	4.46	-3.47	1.06	---	-3.12	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	3.04	-1.07	.99	2.79	-1.63	.59	3.27	---	---	3.42	-.36	1.53
2	2.75	-.80	.96	2.92	-1.46	1.00	3.17	-.04	1.66	2.24	-.80	.83
3	2.86	-1.58	.83	4.60	-.39	2.49	3.50	.17	1.71	2.24	-.82	.81
4	1.78	-1.80	.14	3.93	-.83	1.35	2.35	-.63	1.03	2.67	-.66	.99
5	2.35	-1.32	.74	2.95	-1.16	.64	2.99	-.07	1.49	3.15	-.32	1.48
6	2.69	-1.03	.92	2.65	-1.55	.82	3.04	-.11	1.55	2.33	-.72	.98
7	2.99	-1.30	.66	3.29	-.77	1.24	3.08	-.49	1.20	3.14	-1.09	.73
8	2.81	-1.59	.62	2.75	-1.17	.78	2.71	-.89	.81	3.36	-.32	1.53
9	3.71	-.35	1.48	2.65	-1.68	.41	3.19	-.45	1.18	3.53	-.25	1.44
10	2.85	-1.35	.67	3.70	-.64	1.33	3.12	-.45	1.20	3.45	-.93	.93
11	2.61	-1.09	.81	2.72	-1.50	.54	2.55	-1.11	.57	3.36	-.63	1.17
12	3.28	-.42	1.37	3.15	-1.24	.91	2.48	-.87	.71	3.58	-.58	1.26
13	3.41	-.52	1.54	3.29	-.65	1.30	3.00	-.33	1.36	2.51	-1.48	.35
14	2.27	-2.31	-.11	3.16	-.71	1.20	3.64	.05	1.69	2.29	-1.09	.47
15	2.14	-1.30	.39	3.34	-.29	1.56	3.13	.06	1.46	2.49	-.85	.99
16	2.70	-1.41	.54	3.51	-.86	1.36	3.34	.41	1.76	3.22	-.32	1.42
17	2.33	-.59	.88	1.91	-1.59	-.02	3.18	.34	1.57	2.93	-.32	1.35
18	2.14	-1.05	.38	2.23	-.73	.86	2.73	-.07	1.18	3.38	.03	1.69
19	2.18	-.84	.62	2.95	-.83	.71	2.70	.06	1.41	3.50	.08	1.81
20	2.43	-.77	.63	2.22	-.91	.45	2.54	-.58	.99	3.84	-.06	1.99
21	2.58	-1.10	.76	2.73	-.33	1.27	2.54	-.71	1.08	3.73	-.54	1.69
22	2.66	-1.14	.79	3.38	-.80	1.13	2.63	-1.06	.94	3.71	-.78	1.47
23	4.11	-1.14	1.74	2.89	-.69	1.08	3.40	-.97	1.05	3.95	-.58	1.60
24	4.74	-.19	2.22	3.51	-.08	1.77	3.31	-1.13	1.03	4.15	-.58	1.56
25	2.74	-2.05	.30	3.68	-.14	1.71	4.33	-.78	1.37	4.14	-.37	1.81
26	2.86	-1.93	.36	3.65	-.48	1.38	4.36	-.43	1.85	4.07	-.29	1.71
27	2.22	-2.73	-.37	4.24	-.20	1.84	4.08	-.28	1.71	4.28	-1.17	1.10
28	2.16	-2.63	-.16	4.27	.01	2.00	3.95	-1.02	1.23	3.35	-.71	1.30
29	---	---	---	4.15	-.33	1.77	3.38	-.55	1.30	3.29	-.67	1.22
30	---	---	---	4.04	-.66	1.56	3.51	-.47	1.32	2.90	-.81	1.13
31	---	---	---	3.26	-.54	1.22	---	---	---	2.48	-.95	1.03
MONTH	4.74	-2.73	.74	4.60	-1.68	1.17	4.36	---	---	4.28	-1.48	1.27

HUDSON RIVER BASIN

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ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	2.43	-.78	1.01	2.56	-.73	1.07	2.75	-.46	1.00	2.33	-.55	.82
2	1.96	-.95	.64	2.77	-.62	1.04	2.96	-.40	1.05	2.88	-.94	.88
3	2.25	-1.20	.50	2.23	-1.00	.73	3.07	-.40	1.12	3.10	-.86	.85
4	2.65	-1.04	.70	2.87	-.64	.83	3.37	-.41	1.17	3.50	-.62	1.26
5	2.96	-.59	1.02	3.07	-.63	.98	2.71	-.91	.95	3.93	-.57	1.47
6	3.02	-.76	.97	2.97	-.74	.99	3.30	-1.44	.83	3.93	-.72	1.50
7	2.69	-.96	.87	3.32	-.66	.99	3.29	-.75	1.15	3.16	-.92	1.16
8	2.86	-1.09	.70	3.33	-.57	1.16	3.27	-.63	1.30	2.99	-1.00	1.07
9	3.01	-.76	.92	3.38	-.52	1.28	3.35	-.52	1.40	3.18	-.83	1.22
10	3.07	-.93	.87	3.49	-.60	1.22	3.15	-.92	1.01	3.01	-.83	1.10
11	3.12	-.86	.95	3.06	-.95	.96	2.72	-1.10	.95	2.71	-1.03	.85
12	3.17	-.52	1.17	3.02	-.80	1.12	2.82	-1.08	1.04	2.57	-1.13	.68
13	2.97	-.76	1.10	3.00	-.81	1.15	2.99	-.75	1.19	2.70	-.90	.85
14	3.09	-.66	1.17	2.78	-.97	1.14	2.74	-.89	1.06	2.86	-.65	1.08
15	2.59	-1.02	.90	2.99	-.68	1.40	2.53	-1.16	.70	3.14	-.59	1.17
16	2.57	-1.05	.97	2.93	-.78	1.26	2.80	-1.06	.80	3.16	-.44	1.33
17	2.67	-1.06	1.02	3.08	-.98	1.08	2.96	-1.00	.87	3.00	-.47	1.27
18	2.78	-1.12	.96	3.40	-.71	1.31	3.35	-.38	1.40	2.81	-1.03	.91
19	2.73	-1.43	.73	3.35	-.74	1.26	3.24	-.83	1.11	3.03	-.61	1.17
20	3.28	-1.26	.86	3.21	-.98	1.04	3.60	-.47	1.39	2.81	-.98	1.01
21	3.46	-.97	1.11	3.46	-.82	1.06	3.57	-.30	1.52	2.65	-.88	.95
22	3.25	-1.35	.92	3.37	-.85	1.22	3.31	-.79	1.20	3.14	-.75	1.36
23	3.34	-1.04	1.02	3.28	-.83	1.03	3.49	-.05	1.75	3.69	.23	2.04
24	3.41	-.78	1.24	3.05	-.83	1.09	3.37	-.35	1.48	2.91	-.35	1.30
25	3.64	-.40	1.52	3.17	-.67	1.27	2.98	-.47	1.38	3.04	-.08	1.40
26	3.41	-.66	1.32	3.19	-.52	1.45	2.70	-.59	1.14	3.24	.27	1.69
27	3.18	-.65	1.48	3.09	-.65	1.25	2.48	-.62	1.03	3.45	.82	2.04
28	3.12	-.59	1.32	3.00	-.30	1.42	2.82	-.34	1.20	3.10	.40	1.67
29	2.83	-.58	1.29	2.38	-.90	.95	2.16	-.64	.88	2.25	.16	1.29
30	2.94	-.51	1.27	2.69	-.55	1.12	2.28	-.59	.77	1.94	-1.19	.44
31	---	---	---	2.45	-.74	.87	2.86	-.49	.99	---	---	---
MONTH	3.64	-1.43	1.02	3.49	-1.00	1.12	3.60	-1.44	1.12	3.93	-1.19	1.19

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	3.18	-.28	1.48	2.73	-.71	1.10	3.62	-.18	1.44	3.04	-.61	1.24
2	3.24	-.16	1.51	3.17	-.69	1.47	1.09	-2.02	-.33	3.31	-.50	1.25
3	3.27	-.32	1.46	3.36	-.36	1.59	2.95	-1.49	1.06	3.95	-.01	1.84
4	3.15	-.09	1.61	2.67	-.67	.95	2.98	-.75	.99	3.33	-.28	1.41
5	3.44	-.32	1.45	2.54	-1.21	.69	2.95	-1.33	.91	2.86	-1.29	.78
6	3.78	.19	2.07	2.97	-.91	1.00	3.11	-.87	1.10	1.59	-2.02	-.29
7	4.04	.25	2.15	3.64	-.46	1.62	2.83	-1.19	.73	2.52	-1.02	.86
8	3.71	-.16	1.71	2.91	-.90	.97	2.61	-1.29	.53	4.01	.54	2.39
9	3.16	-.51	1.33	2.25	-1.21	.44	3.23	-.70	1.17	3.15	-.11	1.66
10	3.22	-.44	1.42	3.36	-.71	1.22	2.22	-1.39	.44	3.42	-.53	1.59
11	3.21	-.38	1.39	3.83	-.66	1.72	1.14	-2.30	-.52	2.82	-.61	1.10
12	2.78	-.63	1.07	5.46	-1.23	1.73	1.95	-1.44	.06	3.41	.13	1.78
13	2.77	-.64	1.08	3.20	-.78	1.22	2.17	-.95	.53	3.13	-.75	1.25
14	3.17	-.07	1.58	4.27	.48	2.45	2.67	-.88	.94	2.76	-.76	1.16
15	2.42	-.47	1.01	5.13	-.19	2.90	2.10	-.51	.89	2.41	-1.03	.50
16	1.34	-1.25	.09	2.08	-.59	.90	2.93	-.56	1.59	2.57	-1.66	.66
17	1.54	-1.53	-.14	2.15	-.66	.90	2.93	-.15	1.27	2.80	-1.31	.79
18	2.58	-.62	1.12	2.65	-.67	1.12	2.63	-1.19	.72	2.71	-1.44	.59
19	2.48	-.61	.85	3.32	-.39	1.33	3.30	-1.18	1.30	4.68	-1.03	2.35
20	3.42	-.61	1.36	3.54	-.88	1.48	4.02	-.28	1.67	4.56	.00	2.12
21	4.29	.74	2.68	4.20	-.15	1.92	3.22	-1.57	.52	5.26	.55	2.59
22	3.34	.02	1.70	3.93	-.47	1.48	2.28	-2.86	-.31	4.45	-.31	2.00
23	3.37	-.29	1.46	4.00	-.86	1.42	3.88	-1.13	1.29	3.92	-.70	1.59
24	3.48	-.51	1.48	3.46	-1.18	1.09	3.63	-.82	1.31	4.42	-.41	1.92
25	3.42	---	---	3.68	-.99	1.27	3.35	-.97	1.17	3.01	-1.53	.61
26	3.60	-.81	1.28	3.71	-.65	1.48	2.81	-1.37	.88	2.65	-1.16	.85
27	3.92	-.58	1.67	3.70	-.26	1.69	2.27	-1.51	.42	5.29	-.92	2.59
28	4.28	.26	2.29	2.84	-1.61	1.03	2.78	-1.04	1.07	2.19	-1.23	.28
29	2.66	-1.25	.89	2.97	-1.63	.95	2.33	-1.13	.56	2.21	-1.48	.79
30	2.18	-1.30	.40	2.98	-.49	1.36	2.27	-1.43	.68	2.59	-.30	.99
31	2.74	-1.11	.86	---	---	---	2.31	-1.36	.75	2.62	-.88	.82
MONTH	4.29	---	---	5.46	-1.63	1.35	4.02	-2.86	.80	5.29	-2.02	1.29

HUDSON RIVER BASIN

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	2.46	-.93	.74	2.28	-.90	.74	2.95	-.55	1.17	3.85	-.27	1.56
2	2.73	-1.18	.70	2.83	-.69	1.10	2.85	-1.18	.71	3.53	-.29	1.61
3	2.38	-1.50	.38	3.00	-2.05	.53	3.04	-.71	1.15	3.70	-.32	1.45
4	2.62	-.84	.77	.63	-3.79	-1.59	2.83	-1.24	.69	3.76	-.54	1.49
5	2.54	-.95	.75	1.56	-2.48	---	2.86	-.95	.97	3.66	-.68	1.29
6	1.82	-1.69	.01	1.92	-1.66	.11	3.18	-.78	1.15	3.69	-.79	1.24
7	2.35	-1.42	.41	---	---	---	3.50	-.18	1.76	3.52	-.67	1.14
8	2.54	-1.38	.68	---	-1.58	---	3.89	---	---	3.12	-.84	1.05
9	2.67	-1.55	.63	1.25	-2.81	-.82	3.52	-.26	1.55	2.95	-.84	1.04
10	1.97	-1.54	.25	1.00	-2.43	-.60	3.39	-1.61	.87	2.99	-.62	1.21
11	2.80	-.79	.97	1.73	-1.97	-.16	1.58	-1.79	.04	2.93	-.71	1.24
12	2.03	-2.08	-.11	1.93	-1.53	.29	2.72	-1.05	.96	2.69	-.96	1.02
13	1.69	-2.12	-.09	2.56	-.91	.77	2.89	-.98	1.02	2.83	-.61	1.13
14	2.45	-1.62	.66	2.64	-.87	.93	3.13	-.63	1.27	3.08	-.71	1.11
15	3.28	-.86	1.16	2.92	-.85	1.02	3.78	-.94	1.28	3.14	-.66	1.02
16	3.20	-1.18	.93	2.30	-1.57	.51	4.54	.60	2.49	3.41	-.52	1.26
17	3.40	-1.07	.93	2.76	-1.27	.80	4.21	-.17	1.83	3.38	-.59	1.21
18	2.78	-1.73	.49	3.04	-1.23	.83	3.56	-.44	1.43	3.24	-.46	1.28
19	2.55	-1.98	.31	4.34	-.87	1.33	3.48	-.24	1.52	3.44	-.18	1.49
20	3.21	-1.43	.90	5.01	.19	2.54	3.43	-.28	1.36	3.60	-.11	1.51
21	3.29	-1.23	1.06	4.02	-.10	1.83	3.34	-.94	1.06	3.28	-.04	1.49
22	3.31	-.90	1.20	3.51	-.82	1.19	2.50	-.71	.98	3.02	-.36	1.17
23	3.35	-.66	1.29	2.69	-1.80	.32	3.06	-.29	1.52	2.67	-.43	1.08
24	3.41	-1.04	1.24	1.70	-1.45	.08	2.48	-1.30	.63	2.25	-.79	.79
25	2.19	-2.03	-.18	2.38	-.53	.98	2.47	-.20	1.32	1.88	-.74	.71
26	1.65	-1.99	.33	2.53	-1.13	.54	2.76	.12	1.57	2.14	-.79	.75
27	2.41	-.29	.90	.87	-1.91	-.40	2.02	-.76	.91	2.51	-.69	.95
28	2.87	-.23	1.21	1.22	-1.11	.07	2.17	-.70	.80	2.92	-.59	1.11
29	.82	-1.87	-.43	2.15	-.54	.88	2.83	-.90	.73	3.24	-.57	1.30
30	---	---	---	2.17	-.70	.91	3.75	-.20	1.58	3.13	-1.41	.90
31	---	---	---	2.59	-.67	.88	---	---	---	3.22	-1.29	.90
MONTH	3.41	-2.12	.62	---	---	---	4.54	---	---	3.85	-1.41	1.18
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	3.20	-1.18	.84	3.57	-1.00	1.13	3.78	-.64	1.48	2.92	-.99	1.08
2	3.20	-1.17	.87	3.59	-.98	1.17	3.57	-.78	1.40	3.66	-.14	1.73
3	3.24	-1.11	.87	3.70	-.74	1.42	3.38	-.80	1.32	3.19	-.87	1.29
4	3.46	-.73	1.23	3.83	-.72	1.42	2.98	-.91	1.17	2.85	-.30	1.35
5	3.35	-.99	1.03	3.20	-.96	1.16	2.65	-1.03	.98	2.87	-.17	1.39
6	2.98	-1.15	.91	2.89	-.89	1.19	2.64	-1.11	.88	2.91	-.10	1.32
7	2.79	-1.07	1.06	2.94	-1.11	1.07	2.76	-.84	.92	3.35	.39	1.77
8	2.82	-.95	1.13	3.26	---	---	2.70	-.80	.87	3.43	.37	1.75
9	2.83	-.89	1.08	3.15	-.76	1.26	2.51	-.66	.85	3.19	.08	1.56
10	3.01	-.84	1.12	2.53	-1.10	.80	2.53	-.87	.67	2.98	-.24	1.36
11	2.98	-.90	1.03	2.55	-1.22	.51	2.86	-1.05	.65	3.12	-.45	1.20
12	3.26	-.80	1.06	2.71	-1.21	.55	3.01	-.72	.91	3.74	-.25	1.71
13	3.30	-.61	1.18	3.16	-.92	1.51	3.41	-.70	1.25	3.74	.31	2.04
14	3.06	-.79	1.02	3.47	-.45	1.36	3.41	-.65	1.15	3.69	-.09	1.69
15	3.04	-.78	.95	3.49	-.14	1.44	2.93	-.69	1.08	3.58	-.21	1.72
16	3.07	-.87	.93	3.50	-.31	1.35	3.01	-.65	1.18	3.04	-.63	1.36
17	3.26	-.70	1.00	2.99	-.63	1.02	2.94	-.65	1.14	4.11	.49	2.17
18	3.01	-.80	1.00	2.56	-.71	.94	2.69	-.79	.96	3.29	-.22	1.48
19	3.17	-.40	1.29	2.87	-.34	1.32	2.47	-.98	.93	3.46	-.06	1.68
20	2.92	-.59	1.18	2.16	-1.39	.47	2.80	-.68	1.18	3.30	-.17	1.58
21	3.05	-.23	1.29	2.05	-1.26	.51	2.64	-.70	---	3.34	-.36	1.39
22	3.06	-.20	1.58	2.42	-.73	.99	2.70	-.95	.91	3.61	-.26	1.57
23	2.69	-.90	1.14	2.61	-.59	1.11	3.13	-.72	1.15	3.60	-.24	1.63
24	2.93	-.30	1.37	2.99	-.50	1.23	2.93	-.95	.98	4.01	-.24	1.86
25	2.56	-.57	1.07	3.33	-.52	1.33	3.34	-.90	1.08	3.29	-.69	1.48
26	2.49	-1.13	.67	3.49	-.59	1.36	3.27	-1.09	1.10	3.36	-.84	1.26
27	2.84	-1.15	.69	3.24	-1.01	1.10	3.41	-1.04	1.07	3.33	-.80	1.29
28	3.07	-1.48	.62	3.36	-1.33	.86	3.47	-.95	1.21	3.75	-.47	1.77
29	3.43	-1.11	1.01	3.51	-1.25	.95	3.47	-1.01	1.17	3.67	-.68	1.39
30	3.59	-.81	1.28	3.71	-.89	1.25	3.19	-1.08	1.06	2.96	-.87	1.00
31	---	---	---	3.75	-.72	1.44	3.11	-1.01	1.09	---	---	---
MONTH	3.59	-1.48	1.05	3.83	---	---	3.78	-1.11	---	4.11	-.99	1.53

HUDSON RIVER BASIN

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WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1992 to current year.

WATER TEMPERATURES: May 1992 to current year.

INSTRUMENTATION.--Water-quality monitor provides 15-minute-interval readings.

REMARKS.--Minimum and mean specific conductance may be lower for days in 1992 with minimum values of 165 $\mu\text{S}/\text{cm}$ or less, in 1993 with minimum values of 229 $\mu\text{S}/\text{cm}$ or less, and in 1994 with minimum values of 160 $\mu\text{S}/\text{cm}$ or less. Telephone temperature and specific conductance telemeter at station. Interruptions of record were due to malfunction of recording instrument and routine gage service.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 2,800 $\mu\text{S}/\text{cm}$, Sept. 26, 1995; minimum, 96 $\mu\text{S}/\text{cm}$, Jan. 30, 1995.

WATER TEMPERATURES: Maximum, 28.0°C, Aug. 4, 5, 1995; minimum (water years 1993-96), 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: May to September 1992: Maximum, 292 $\mu\text{S}/\text{cm}$, Aug. 15; minimum, 150 $\mu\text{S}/\text{cm}$, May 6, 7, 25, 28.Water year 1993: Maximum, 730 $\mu\text{S}/\text{cm}$, July 26; minimum, 150 $\mu\text{S}/\text{cm}$, Dec. 16, 19, and on several days during April.Water year 1994: Maximum, 537 $\mu\text{S}/\text{cm}$, Mar. 10; minimum, 150 $\mu\text{S}/\text{cm}$, Apr. 26, and on several days during Jan. and May.Water year 1996: Maximum, 2,480 $\mu\text{S}/\text{cm}$, Oct. 1; minimum, 133 $\mu\text{S}/\text{cm}$, May 21.

WATER TEMPERATURES: May to September 1992: Maximum, 25.0°C on several days during July and August.

Water year 1993: Maximum, 26.5°C on several days during July and Aug.; minimum, 0.0°C on many days during winter period.

Water year 1994: Maximum, 27.5°C on several days during July and Aug.; minimum, 0.0°C on many days during winter period.

Water year 1996: Maximum, 26.0°C, Aug. 26, 27, Sept. 9; minimum, 0.0°C on many days during winter period.

SPECIFIC CONDUCTANCE, $\mu\text{S}/\text{CM}$ @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	255	185	212
2	---	---	---	---	---	---	---	---	---	259	183	210
3	---	---	---	---	---	---	---	---	---	231	167	199
4	---	---	---	---	---	---	---	---	---	223	152	180
5	---	---	---	---	---	---	---	---	---	211	152	170
6	---	---	---	---	---	---	---	---	---	212	150	169
7	---	---	---	---	---	---	---	---	---	216	150	172
8	---	---	---	---	---	---	---	---	---	237	153	176
9	---	---	---	---	---	---	---	---	---	232	161	187
10	---	---	---	---	---	---	---	---	---	221	164	184
11	---	---	---	---	---	---	---	---	---	214	171	189
12	---	---	---	---	---	---	---	---	---	245	168	197
13	---	---	---	---	---	---	---	---	---	248	170	199
14	---	---	---	---	---	---	---	---	---	245	166	202
15	---	---	---	---	---	---	---	---	---	237	172	194
16	---	---	---	---	---	---	---	---	---	214	167	186
17	---	---	---	---	---	---	---	---	---	232	169	190
18	---	---	---	---	---	---	---	---	---	230	166	192
19	---	---	---	---	---	---	---	---	---	233	170	191
20	---	---	---	---	---	---	---	---	---	247	167	189
21	---	---	---	---	---	---	---	---	---	235	163	189
22	---	---	---	---	---	---	---	---	---	221	165	187
23	---	---	---	---	---	---	---	---	---	220	163	186
24	---	---	---	---	---	---	---	---	---	204	153	173
25	---	---	---	---	---	---	---	---	---	188	150	165
26	---	---	---	---	---	---	---	---	---	200	154	168
27	---	---	---	---	---	---	---	---	---	184	154	167
28	---	---	---	---	---	---	---	---	---	214	150	170
29	---	---	---	---	---	---	---	---	---	213	151	174
30	---	---	---	---	---	---	---	---	---	205	156	173
31	---	---	---	---	---	---	---	---	---	182	151	162
MONTH	---	---	---	---	---	---	---	---	---	259	150	184

HUDSON RIVER BASIN

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SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	196	157	171	232	200	211	246	212	228	249	218	235
2	209	160	176	224	193	206	251	206	231	254	220	236
3	215	165	183	208	173	200	250	220	235	248	206	235
4	208	164	185	222	187	204	249	212	234	259	231	243
5	195	160	176	220	197	207	255	213	236	247	202	236
6	203	164	183	228	194	208	262	205	239	252	232	239
7	214	172	188	230	188	207	269	228	245	252	203	236
8	213	175	192	230	168	208	267	233	242	260	233	245
9	235	177	195	233	195	210	264	197	241	269	232	247
10	235	175	194	241	197	211	277	232	249	265	231	245
11	226	181	197	242	196	211	268	238	250	259	225	240
12	233	183	203	229	196	206	271	239	252	264	217	234
13	248	195	210	239	193	211	260	226	246	256	175	235
14	243	194	213	241	197	212	263	212	246	264	227	240
15	240	200	213	265	189	208	292	216	243	253	223	237
16	237	191	210	222	186	207	270	208	244	269	220	242
17	237	173	211	216	199	204	260	212	246	263	231	241
18	218	184	207	235	198	212	264	241	252	253	231	240
19	218	192	205	229	199	211	264	243	255	251	229	238
20	221	198	208	236	198	214	264	230	249	249	220	236
21	217	180	204	231	204	214	264	226	248	249	219	235
22	223	188	200	232	190	213	268	215	250	274	231	242
23	220	178	201	223	188	209	275	228	253	252	210	235
24	214	175	201	229	188	213	271	221	254	252	213	231
25	224	190	205	241	202	219	279	244	256	272	218	231
26	233	190	206	237	209	217	283	245	260	242	220	231
27	236	185	205	250	211	225	266	233	251	249	212	235
28	243	187	211	272	212	224	262	223	240	259	228	239
29	238	174	209	245	212	223	252	224	239	248	212	235
30	233	195	210	244	214	225	252	204	237	242	209	232
31	---	---	---	231	217	221	259	224	239	---	---	---
MONTH	248	157	199	272	168	212	292	197	245	274	175	238

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER				NOVEMBER			DECEMBER			JANUARY		
1	244	220	232	239	204	216	198	170	184	251	196	217
2	260	220	237	233	193	209	195	170	180	249	196	215
3	254	213	242	227	180	211	205	162	187	243	200	211
4	262	210	238	236	191	214	208	174	190	268	198	219
5	266	223	234	227	197	209	211	160	192	255	204	225
6	272	216	232	224	191	205	204	161	183	243	173	206
7	261	209	235	243	170	199	204	175	188	231	172	197
8	265	223	239	223	164	194	207	167	185	222	183	197
9	275	216	238	216	176	194	203	162	183	237	160	209
10	263	221	243	234	182	200	216	156	178	223	165	200
11	280	209	238	233	175	203	228	174	193	227	169	197
12	271	228	241	222	192	206	275	163	200	248	158	203
13	258	211	237	231	168	211	266	172	199	253	172	206
14	247	225	234	242	191	206	219	171	188	274	173	206
15	265	228	242	237	187	202	206	155	181	260	173	199
16	262	228	243	224	181	197	228	150	182	228	167	191
17	270	213	239	206	177	192	301	167	198	224	162	191
18	250	212	235	208	183	193	235	170	193	242	171	192
19	250	212	233	226	151	191	220	150	185	229	162	192
20	254	219	235	225	179	195	229	169	187	241	168	193
21	252	222	235	229	184	197	238	173	192	230	163	194
22	274	218	238	215	182	203	247	168	190	319	177	208
23	261	214	237	242	192	210	217	176	191	283	171	205
24	258	228	237	226	186	202	220	180	195	235	176	198
25	268	199	233	212	175	195	212	177	191	225	167	192
26	258	191	230	222	184	195	227	177	197	218	164	181
27	248	217	233	222	177	199	220	177	195	235	157	191
28	251	215	230	212	163	189	244	165	197	229	165	184
29	252	206	226	235	160	185	243	170	203	221	169	187
30	249	191	226	205	171	184	248	182	208	203	163	181
31	244	208	220	---	---	---	233	196	211	213	162	185
MONTH	280	191	235	243	151	200	301	150	191	319	157	199

HUDSON RIVER BASIN

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01372058 HUDSON RIVER BELOW POUGHKEEPSIE, NY--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	228	172	190	272	187	239	294	165	214	259	152	194
2	215	165	185	273	208	242	275	150	183	266	160	197
3	221	163	194	280	217	244	240	150	176	288	161	200
4	216	176	197	293	218	243	273	150	183	280	166	199
5	231	166	201	364	211	253	261	151	191	298	165	194
6	220	172	198	355	226	257	276	150	189	265	168	204
7	218	152	194	297	233	251	260	156	196	269	156	198
8	240	185	216	307	212	252	327	154	209	290	165	197
9	239	185	210	338	220	252	284	169	210	263	157	195
10	245	198	218	303	227	252	275	174	210	257	164	193
11	251	203	219	302	219	248	313	184	233	241	164	196
12	235	171	210	316	218	245	326	174	236	291	168	195
13	348	207	232	307	214	240	300	180	222	199	152	181
14	239	209	228	244	182	228	281	155	205	221	158	184
15	261	203	227	262	190	224	299	163	206	232	164	188
16	283	218	232	257	187	229	255	151	191	220	153	189
17	279	226	247	418	215	248	270	153	184	237	165	193
18	288	226	243	524	202	284	240	150	178	223	167	185
19	297	221	243	348	207	241	302	159	192	218	157	182
20	289	191	242	319	180	241	316	174	207	210	162	183
21	274	218	240	342	219	245	288	165	211	240	172	195
22	322	227	250	380	219	265	280	158	202	234	153	192
23	278	230	250	350	214	250	239	150	181	254	177	197
24	272	232	246	347	217	265	286	153	188	235	166	197
25	258	220	240	369	222	272	305	150	205	241	183	205
26	254	218	235	366	209	270	301	154	203	224	161	199
27	252	209	234	386	215	273	276	154	206	223	172	199
28	268	205	238	390	227	277	293	150	195	230	170	198
29	---	---	---	376	207	281	316	150	196	234	185	201
30	---	---	---	380	242	291	293	150	191	246	175	203
31	---	---	---	336	200	261	---	---	---	238	172	196
MONTH	348	152	224	524	180	254	327	150	200	298	152	194
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	254	181	201	275	223	236	544	335	426	430	308	376
2	244	169	204	243	222	230	547	348	460	424	320	380
3	243	179	207	252	216	233	566	347	466	430	320	388
4	246	189	211	261	217	242	508	330	435	413	279	351
5	224	184	207	265	232	244	505	340	421	387	294	348
6	228	175	206	271	230	245	458	328	409	369	288	332
7	239	188	208	296	237	251	491	355	425	342	274	310
8	253	188	209	275	235	252	487	343	417	329	257	298
9	237	196	214	273	241	255	448	315	386	330	266	299
10	256	202	219	284	224	255	426	310	374	323	276	300
11	253	202	216	264	238	254	433	302	369	305	245	269
12	240	190	216	260	234	250	434	283	372	293	240	270
13	259	181	216	271	242	255	480	309	388	306	234	279
14	255	185	220	276	244	256	472	316	383	303	256	285
15	234	193	216	273	232	256	444	304	381	301	245	283
16	251	201	219	274	245	255	444	313	378	289	244	273
17	255	202	221	274	234	254	417	294	357	312	230	273
18	254	209	224	329	229	265	468	338	412	310	255	282
19	254	210	227	370	251	297	497	342	444	299	248	280
20	243	210	222	538	262	347	507	342	440	304	250	280
21	267	212	223	421	268	332	497	320	423	290	239	268
22	249	210	225	464	281	349	514	333	440	289	249	271
23	245	194	223	496	287	362	511	332	430	307	235	279
24	251	189	226	532	296	415	478	319	410	303	249	274
25	240	191	227	551	331	425	453	304	391	296	246	274
26	245	214	229	730	341	486	420	302	365	313	251	282
27	255	214	231	602	356	470	425	308	364	314	234	273
28	260	216	232	602	351	438	448	302	379	298	241	268
29	262	220	232	646	364	467	422	301	366	282	230	261
30	253	217	232	691	364	478	422	317	372	279	217	253
31	---	---	---	621	351	443	431	320	387	---	---	---
MONTH	267	169	219	730	216	316	566	283	402	430	217	295

HUDSON RIVER BASIN

01372058 HUDSON RIVER BELOW POUGHKEEPSIE, NY--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	288	266	256	281	226	251	282	202	238	267	169	213
2	296	246	262	290	232	260	282	202	232	272	194	226
3	283	240	255	284	227	257	274	204	234	257	172	208
4	304	238	255	285	236	262	258	194	220	210	159	174
5	260	232	249	288	247	264	279	168	221	279	151	196
6	257	231	245	286	256	265	286	185	233	244	152	185
7	262	225	241	285	242	261	289	201	232	159	150	151
8	266	210	242	284	213	251	314	197	233	229	158	173
9	270	248	257	290	218	254	286	176	225	244	150	192
10	274	249	255	289	212	254	274	181	224	234	151	197
11	272	229	252	274	211	252	268	166	220	262	150	196
12	271	174	250	286	242	261	276	153	213	284	168	209
13	272	250	257	292	214	252	280	168	222	282	186	216
14	273	232	255	355	246	261	267	193	224	267	194	219
15	277	251	259	299	245	263	264	189	223	244	155	205
16	277	251	259	289	246	260	260	184	221	262	150	262
17	274	251	260	262	209	241	251	173	207	209	150	177
18	278	251	261	286	223	257	245	162	201	249	172	207
19	293	251	258	285	234	250	298	173	213	251	150	185
20	262	251	256	265	240	250	255	153	208	254	150	189
21	270	244	256	269	216	243	287	170	201	254	150	184
22	281	246	257	271	224	249	270	172	218	274	150	210
23	296	249	258	275	225	253	267	169	215	202	167	182
24	274	234	255	268	219	246	256	151	202	275	186	232
25	283	249	261	269	190	233	257	158	198	254	209	236
26	282	251	258	267	171	227	261	153	201	235	151	191
27	277	251	258	278	208	240	268	152	198	229	156	180
28	274	253	258	286	239	249	266	157	202	260	176	215
29	280	232	256	303	239	265	265	154	198	285	241	266
30	284	222	254	311	215	259	262	155	202	283	220	259
31	278	224	245	---	---	---	265	160	204	289	180	241
MONTH	304	174	255	355	171	253	314	151	216	289	150	206
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	280	179	232	312	215	261	330	217	255	240	160	179
2	285	160	228	302	201	251	339	214	253	240	159	182
3	276	165	227	300	213	242	456	207	261	242	153	180
4	292	178	234	328	207	251	364	207	272	235	157	178
5	287	198	246	334	224	252	370	198	253	248	152	176
6	287	217	254	311	184	247	344	221	259	235	150	169
7	301	201	250	294	205	248	349	209	261	246	---	---
8	230	163	198	326	216	246	342	191	250	196	---	---
9	191	153	167	328	211	249	318	198	239	216	---	---
10	273	151	195	537	220	305	311	197	225	190	---	---
11	201	153	169	406	261	314	351	195	241	200	---	---
12	247	174	204	358	237	294	344	190	241	186	---	---
13	318	210	244	385	262	306	274	188	216	210	---	---
14	315	199	258	385	275	311	301	184	227	214	---	---
15	304	169	237	402	267	295	355	189	232	182	150	162
16	301	216	253	321	242	283	322	180	219	237	150	167
17	282	181	241	341	216	267	269	174	202	203	150	166
18	295	211	255	285	206	249	303	162	201	206	150	164
19	275	200	252	325	206	258	327	156	206	194	150	165
20	279	230	261	355	230	275	259	159	189	226	154	171
21	285	242	269	357	221	275	291	151	197	233	164	178
22	370	249	288	421	240	302	260	---	---	241	168	184
23	316	239	269	407	232	291	213	---	---	227	170	184
24	426	242	294	371	240	292	222	---	---	231	171	187
25	352	251	290	384	247	293	272	---	---	217	173	184
26	465	224	292	355	218	278	271	150	178	280	174	187
27	298	195	257	331	209	254	281	151	177	219	175	192
28	302	185	252	367	213	268	253	153	186	221	166	186
29	---	---	---	397	222	277	227	157	178	216	177	189
30	---	---	---	330	216	263	234	159	183	225	178	192
31	---	---	---	352	217	265	---	---	---	212	179	190
MONTH	465	151	243	537	184	273	456	---	---	280	---	---

HUDSON RIVER BASIN

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01372058 HUDSON RIVER BELOW POUGHKEEPSIE, NY--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	211	179	188	239	213	220	263	245	253	266	246	251
2	231	181	191	245	218	225	260	243	252	261	222	247
3	229	181	193	260	221	227	267	242	251	265	217	247
4	231	181	193	253	222	229	258	244	251	262	227	249
5	218	182	191	249	223	229	259	240	248	264	227	249
6	213	183	190	261	224	231	255	228	243	277	225	249
7	228	183	195	254	225	232	258	237	245	266	223	250
8	231	183	196	262	224	231	253	236	245	275	237	254
9	215	182	193	262	226	235	254	235	245	269	239	254
10	214	183	193	250	229	236	253	233	242	265	235	253
11	203	182	190	250	231	239	249	231	240	269	218	250
12	220	182	190	255	234	241	254	231	238	269	215	251
13	221	182	195	255	235	243	246	229	237	272	236	257
14	218	182	193	258	237	244	244	229	236	280	253	261
15	222	181	192	256	240	245	245	216	232	282	239	261
16	220	179	190	259	241	247	256	214	236	285	247	261
17	234	185	194	266	242	248	257	170	239	286	257	266
18	241	184	194	261	243	248	248	189	237	286	248	265
19	224	185	196	266	245	250	251	230	238	277	222	258
20	220	187	197	267	247	252	252	229	237	283	227	259
21	211	190	196	268	247	254	256	230	235	280	231	262
22	222	191	199	267	248	255	249	195	230	282	239	260
23	227	192	200	260	244	253	250	203	233	276	223	253
24	216	194	201	265	250	255	253	207	237	284	226	261
25	214	195	200	262	250	255	257	225	240	284	244	264
26	223	196	205	265	251	255	259	237	243	283	238	263
27	216	199	205	263	251	256	261	239	245	267	197	252
28	222	200	207	264	249	256	262	241	247	272	224	254
29	217	204	208	264	252	257	256	243	247	268	216	247
30	227	206	213	263	249	256	263	229	246	276	211	242
31	---	---	---	267	247	254	256	233	246	---	---	---
MONTH	241	179	196	268	213	244	267	170	242	286	197	255

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	2480	1060	1680	277	231	245	233	168	188	221	184	195
2	2420	1090	1670	271	224	242	252	172	196	226	185	198
3	2420	1070	1640	313	212	239	213	169	183	226	191	200
4	2330	1090	1710	268	192	217	212	172	186	221	191	198
5	2070	881	1460	235	179	203	225	173	188	222	191	202
6	2230	882	1480	227	173	195	224	170	187	223	196	205
7	1760	730	1170	243	177	193	224	172	188	234	199	209
8	1330	482	818	210	168	185	213	170	187	232	200	211
9	900	450	624	224	170	187	211	169	185	229	200	209
10	857	449	619	222	169	183	226	168	185	235	200	210
11	711	461	577	223	163	179	223	165	186	224	203	212
12	636	433	538	263	166	194	212	145	177	225	202	210
13	617	417	515	278	177	203	199	148	165	241	202	215
14	630	426	518	331	172	215	188	151	165	241	199	217
15	544	356	456	255	163	189	199	143	164	254	199	220
16	392	296	338	277	154	184	193	155	165	234	206	218
17	332	281	303	286	164	201	195	157	171	252	209	223
18	340	285	315	272	174	200	209	164	178	247	211	226
19	340	273	304	262	174	201	222	164	181	482	216	264
20	327	280	302	279	173	203	221	165	180	530	218	318
21	342	278	307	270	166	193	270	172	187	377	182	242
22	320	266	292	238	159	180	228	173	190	318	205	237
23	339	248	274	236	163	182	217	171	188	309	197	231
24	311	237	262	225	160	186	213	174	190	412	189	234
25	265	---	---	220	163	187	209	170	187	289	169	213
26	273	221	237	239	160	187	212	170	187	227	160	182
27	260	215	232	220	162	183	218	171	187	395	168	212
28	280	204	230	232	161	187	218	169	191	285	161	184
29	273	228	244	315	167	198	222	171	189	223	163	179
30	288	229	249	215	162	186	218	171	191	218	153	173
31	286	233	247	---	---	---	226	176	190	295	160	184
MONTH	2480	---	---	331	154	198	270	143	183	530	153	214

HUDSON RIVER BASIN

01372058 HUDSON RIVER BELOW POUGHKEEPSIE, NY--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	241	161	179	270	200	223	310	218	249	278	138	171
2	233	165	179	285	211	229	340	220	258	236	135	171
3	250	168	191	280	209	231	293	220	243	253	134	167
4	238	172	188	301	204	230	304	216	250	256	135	166
5	216	163	184	560	199	---	294	216	247	243	143	180
6	218	176	192	420	200	266	299	214	249	283	147	184
7	234	178	190	---	---	---	310	213	243	245	149	178
8	262	177	193	---	---	---	---	---	---	247	149	179
9	254	178	192	329	190	236	336	216	254	239	142	168
10	228	173	189	310	189	233	313	216	252	254	142	173
11	240	174	191	322	183	231	307	215	253	289	143	177
12	248	171	190	316	188	222	385	213	256	240	146	168
13	258	170	195	298	182	222	351	219	251	255	146	174
14	262	176	193	374	184	228	349	222	256	284	148	187
15	279	176	196	594	196	244	329	216	253	268	157	189
16	224	183	201	373	201	259	333	218	249	251	160	188
17	250	194	207	329	201	243	333	201	233	260	155	192
18	239	195	210	346	203	239	366	200	248	252	151	184
19	242	198	208	303	199	237	401	199	251	269	139	186
20	290	200	213	331	210	246	361	193	247	243	135	173
21	342	206	231	313	202	238	331	188	238	225	133	169
22	328	206	236	292	215	237	319	183	229	302	150	184
23	280	194	218	298	209	242	330	177	213	233	149	173
24	277	201	217	319	209	247	261	152	198	243	147	177
25	308	202	227	309	208	240	267	152	181	231	142	171
26	305	207	234	336	202	249	290	157	187	210	148	169
27	271	199	225	325	211	252	277	152	181	248	149	174
28	267	198	219	306	213	242	253	143	172	205	154	169
29	281	202	233	354	218	242	205	148	162	231	157	176
30	---	---	---	353	214	252	347	141	178	227	159	179
31	---	---	---	327	218	256	---	---	---	219	161	182
MONTH	342	161	204	---	---	---	---	---	---	302	133	177
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	228	162	184	252	202	218	223	180	195	248	215	226
2	242	165	185	238	198	217	228	175	196	258	205	228
3	212	152	173	224	185	211	212	169	192	329	218	238
4	228	166	187	228	198	213	267	181	201	260	208	228
5	230	167	191	237	204	216	292	185	203	257	215	231
6	218	169	188	246	203	214	341	185	207	258	223	232
7	229	168	187	249	199	213	338	184	205	252	223	229
8	233	165	185	---	197	---	266	183	199	239	220	231
9	242	161	183	258	192	215	233	185	197	264	224	236
10	206	160	175	264	201	215	345	188	211	263	222	238
11	234	166	184	256	204	222	230	186	206	261	226	235
12	233	169	184	253	210	225	270	192	204	261	215	237
13	226	171	187	258	180	214	232	197	207	247	225	231
14	221	174	187	272	205	225	279	201	215	256	226	236
15	220	176	191	248	207	219	254	203	217	325	229	242
16	221	177	193	256	207	231	232	206	217	255	228	238
17	213	179	191	257	190	221	259	198	222	236	202	230
18	210	183	193	246	188	214	259	212	228	247	228	235
19	226	182	191	237	191	206	268	220	235	266	232	244
20	215	185	195	259	192	213	263	215	229	268	235	247
21	220	189	198	310	188	220	---	158	---	272	236	248
22	212	187	196	237	195	213	272	183	211	252	232	243
23	236	190	204	226	201	214	269	193	213	276	238	248
24	231	192	202	317	203	224	268	199	215	266	239	247
25	246	195	206	---	---	---	352	195	221	265	236	248
26	252	190	213	266	171	195	273	200	223	267	239	250
27	248	200	216	242	179	193	281	202	219	261	230	247
28	250	204	217	286	176	202	284	204	217	263	240	250
29	241	202	214	249	177	193	243	202	219	270	234	252
30	225	205	210	219	181	193	246	192	224	282	239	261
31	---	---	---	204	181	190	284	204	230	---	---	---
MONTH	252	152	194	---	---	---	---	158	---	329	202	240

HUDSON RIVER BASIN

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01372058 HUDSON RIVER BELOW Poughkeepsie, NY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	---	---	---	12.5	11.0	11.5
2	---	---	---	---	---	---	---	---	---	13.0	11.5	12.0
3	---	---	---	---	---	---	---	---	---	13.5	12.0	12.5
4	---	---	---	---	---	---	---	---	---	13.0	12.0	12.0
5	---	---	---	---	---	---	---	---	---	12.5	12.0	12.0
6	---	---	---	---	---	---	---	---	---	12.5	11.5	12.0
7	---	---	---	---	---	---	---	---	---	13.0	11.5	12.0
8	---	---	---	---	---	---	---	---	---	13.0	12.0	12.5
9	---	---	---	---	---	---	---	---	---	13.5	12.5	13.0
10	---	---	---	---	---	---	---	---	---	13.5	12.5	13.0
11	---	---	---	---	---	---	---	---	---	13.5	13.0	13.0
12	---	---	---	---	---	---	---	---	---	15.0	13.0	13.5
13	---	---	---	---	---	---	---	---	---	15.5	13.5	14.0
14	---	---	---	---	---	---	---	---	---	15.0	13.5	14.5
15	---	---	---	---	---	---	---	---	---	15.0	14.0	14.5
16	---	---	---	---	---	---	---	---	---	15.0	14.5	14.5
17	---	---	---	---	---	---	---	---	---	15.5	14.0	14.5
18	---	---	---	---	---	---	---	---	---	15.5	14.5	15.0
19	---	---	---	---	---	---	---	---	---	16.0	14.5	15.0
20	---	---	---	---	---	---	---	---	---	16.5	15.0	15.5
21	---	---	---	---	---	---	---	---	---	16.5	15.0	16.0
22	---	---	---	---	---	---	---	---	---	16.5	15.5	16.0
23	---	---	---	---	---	---	---	---	---	17.5	16.0	16.5
24	---	---	---	---	---	---	---	---	---	17.0	15.5	16.5
25	---	---	---	---	---	---	---	---	---	17.0	16.0	16.5
26	---	---	---	---	---	---	---	---	---	17.0	16.0	16.5
27	---	---	---	---	---	---	---	---	---	17.0	16.0	16.5
28	---	---	---	---	---	---	---	---	---	17.5	16.0	16.5
29	---	---	---	---	---	---	---	---	---	18.0	16.0	17.0
30	---	---	---	---	---	---	---	---	---	17.5	16.5	17.0
31	---	---	---	---	---	---	---	---	---	17.0	16.5	17.0
MONTH	---	---	---	---	---	---	---	---	---	18.0	11.0	14.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	17.5	16.5	17.0	23.5	22.0	22.5	24.5	24.0	24.0	24.0	23.0	23.5
2	18.0	17.0	17.5	23.0	22.0	22.5	24.5	23.5	24.0	24.0	23.0	23.5
3	18.5	17.0	17.5	22.5	22.0	22.0	24.5	23.5	24.0	23.5	23.0	23.5
4	18.5	17.5	18.0	22.5	22.0	22.0	24.5	23.5	24.0	24.0	23.0	23.5
5	18.0	17.5	18.0	22.5	22.0	22.0	24.5	24.0	24.0	23.5	23.0	23.0
6	18.5	17.5	18.0	22.5	22.0	22.5	24.5	24.0	24.0	23.5	23.0	23.0
7	19.0	18.0	18.5	22.5	22.0	22.5	24.5	24.0	24.0	23.0	23.0	23.0
8	19.5	18.5	19.0	23.0	22.0	22.5	24.5	24.0	24.0	23.5	22.5	23.0
9	19.5	19.0	19.0	23.5	22.5	23.0	24.5	23.0	24.0	24.0	23.0	23.0
10	20.0	19.0	19.5	24.0	22.5	23.0	25.0	24.0	24.5	24.0	23.0	23.5
11	20.0	19.0	19.5	23.5	23.0	23.0	25.0	24.0	24.5	23.5	23.0	23.0
12	20.5	19.0	20.0	23.5	23.0	23.0	25.0	24.0	24.0	23.0	22.5	22.5
13	21.0	19.5	20.0	24.0	23.0	23.5	24.5	23.5	24.0	23.0	22.0	22.5
14	21.0	20.0	20.5	24.5	23.0	23.5	24.0	23.5	24.0	23.0	22.0	22.5
15	21.0	20.0	20.5	24.0	23.0	23.5	24.0	23.5	23.5	23.0	22.0	22.5
16	21.5	20.0	20.5	24.0	23.0	23.5	23.5	23.0	23.5	23.0	22.0	22.5
17	21.5	20.5	21.0	24.0	23.5	23.5	23.5	23.0	23.0	23.5	22.5	22.5
18	21.5	21.0	21.0	24.5	23.5	24.0	23.5	22.5	23.0	23.5	22.5	23.0
19	21.5	21.0	21.0	24.5	23.5	24.0	23.5	23.0	23.0	23.0	22.5	22.5
20	21.5	21.0	21.0	25.0	24.0	24.0	23.5	23.0	23.0	23.0	22.5	22.5
21	21.5	21.0	21.0	24.5	24.0	24.5	23.5	23.0	23.0	23.0	22.5	22.5
22	21.5	20.5	21.0	24.5	24.0	24.5	23.5	23.0	23.0	23.0	22.0	22.5
23	21.5	20.5	21.0	24.5	24.0	24.0	24.0	23.0	23.5	22.5	22.0	22.0
24	21.5	20.5	21.0	24.5	24.0	24.0	24.0	23.0	23.5	22.0	21.5	21.5
25	21.5	21.0	21.5	24.5	23.5	24.0	24.0	23.0	23.5	21.5	21.0	21.5
26	22.0	21.0	21.5	24.5	24.0	24.0	24.5	23.0	24.0	21.5	20.5	21.0
27	22.5	21.0	21.5	25.0	24.0	24.0	25.0	23.5	24.0	21.0	20.5	21.0
28	22.5	21.0	21.5	24.5	24.0	24.0	25.0	23.5	24.0	21.0	20.5	20.5
29	23.0	21.5	22.0	25.0	23.5	24.0	25.0	23.5	24.0	21.0	19.5	20.5
30	23.0	21.5	22.0	24.5	24.0	24.5	24.5	23.5	24.0	20.0	19.5	20.0
31	---	---	---	24.5	24.0	24.0	24.0	23.5	23.5	---	---	---
MONTH	23.0	16.5	20.0	25.0	22.0	23.5	25.0	22.5	23.5	24.0	19.5	22.5

HUDSON RIVER BASIN

01372058 HUDSON RIVER BELOW POUGHKEEPSIE, NY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	20.0	19.0	19.5	12.0	11.0	11.5	5.0	5.0	5.0	.5	.0	.0
2	19.5	19.0	19.5	11.5	11.0	11.0	5.5	5.0	5.0	.0	.0	.0
3	19.5	19.0	19.0	11.5	10.5	11.0	5.0	5.0	5.0	.0	.0	.0
4	19.5	18.5	19.0	11.0	10.5	10.5	5.0	5.0	5.0	.5	.0	.0
5	19.0	18.0	18.5	10.5	10.0	10.5	5.0	4.5	5.0	2.0	.0	.5
6	18.5	18.0	18.0	10.0	9.5	10.0	5.0	4.5	5.0	.5	.0	.5
7	18.5	17.5	18.0	10.0	9.0	9.5	5.0	4.5	5.0	1.0	.5	.5
8	18.5	17.5	18.0	9.5	8.5	9.0	5.0	4.5	4.5	1.0	.5	.5
9	18.0	17.5	18.0	9.0	8.5	8.5	4.5	4.5	4.5	1.0	.5	.5
10	18.5	17.5	18.0	9.0	8.0	8.5	4.5	4.0	4.5	.5	.5	.5
11	18.0	17.5	17.5	9.0	8.0	8.5	4.5	4.0	4.5	.5	.5	.5
12	18.0	17.0	17.5	8.5	8.0	8.5	4.5	4.0	4.0	.5	.5	.5
13	17.5	16.5	17.0	9.0	8.0	8.5	4.0	3.5	4.0	.5	.5	.5
14	17.0	16.5	16.5	8.0	7.5	7.5	4.0	3.5	3.5	.5	.5	.5
15	17.0	16.0	16.5	7.5	7.0	7.5	3.5	3.0	3.5	.5	.5	.5
16	17.0	16.0	16.5	7.5	7.0	7.0	3.0	2.5	3.0	.5	.5	.5
17	16.5	15.5	16.0	7.0	6.5	7.0	3.0	2.5	3.0	.5	.0	.5
18	16.0	15.5	15.5	6.5	6.5	6.5	2.5	2.0	2.5	.5	.0	.0
19	16.0	15.0	15.5	6.5	6.0	6.5	2.5	1.5	2.0	.0	.0	.0
20	15.5	15.0	15.0	6.5	6.0	6.0	2.5	1.5	1.5	.5	.0	.0
21	15.0	14.5	14.5	6.5	6.0	6.0	1.5	1.0	1.5	.0	.0	.0
22	14.5	14.0	14.5	6.5	6.0	6.5	1.5	1.0	1.0	.5	.0	.0
23	14.5	14.0	14.5	7.0	6.0	6.5	1.5	1.0	1.0	.5	.0	.0
24	14.5	14.0	14.0	6.5	6.0	6.0	1.0	.5	1.0	.5	.0	.0
25	14.0	13.0	13.5	6.5	5.5	6.0	.5	.0	.5	.0	.0	.0
26	13.5	13.0	13.0	6.0	5.5	5.5	.5	.0	.5	.0	.0	.0
27	13.5	12.5	13.0	5.5	5.5	5.5	.5	.0	.0	.5	.0	.0
28	13.0	12.5	13.0	5.5	5.0	5.5	.5	.0	.5	.0	.0	.0
29	13.0	12.0	12.5	5.5	5.0	5.0	.5	.0	.5	.0	.0	.0
30	12.5	12.0	12.5	5.0	5.0	5.0	1.5	.0	.5	.0	.0	.0
31	12.5	11.5	12.0	---	---	---	.5	.0	.5	.0	.0	.0
MONTH	20.0	11.5	16.0	12.0	5.0	7.5	5.5	.0	3.0	2.0	.0	.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	.0	.0	.0	.0	.0	.0	3.5	2.0	2.5	10.5	9.0	10.0
2	.0	.0	.0	.0	.0	.0	2.5	1.5	2.0	11.0	10.0	10.5
3	.0	.0	.0	.5	.0	.0	3.0	2.0	2.5	12.5	10.0	11.0
4	.0	.0	.0	.0	.0	.0	3.0	2.5	2.5	12.5	11.0	11.5
5	.0	.0	.0	.0	.0	.0	4.0	2.5	3.0	12.5	11.5	11.5
6	.0	.0	.0	.0	.0	.0	4.5	2.5	3.0	13.0	11.5	12.0
7	.0	.0	.0	.0	.0	.0	4.5	2.5	3.0	13.5	12.0	12.5
8	.0	.0	.0	.5	.0	.0	5.0	3.0	3.5	14.0	12.5	13.0
9	.0	.0	.0	.5	.0	.0	5.0	3.5	4.0	14.5	13.0	13.5
10	.0	.0	.0	.0	.0	.0	8.5	4.0	5.0	15.0	13.5	14.0
11	.0	.0	.0	.0	.0	.0	7.0	4.5	5.5	15.5	14.0	15.0
12	.0	.0	.0	.5	.0	.0	7.0	6.0	6.5	16.0	14.5	15.5
13	.0	.0	.0	.0	.0	.0	7.5	6.5	7.0	16.0	15.0	15.5
14	.0	.0	.0	.0	.0	.0	8.0	7.0	7.0	16.5	15.5	16.0
15	.0	.0	.0	.0	.0	.0	7.5	7.0	7.0	16.5	15.5	16.0
16	.0	.0	.0	.0	.0	.0	7.5	6.5	7.0	17.5	16.0	16.5
17	.0	.0	.0	1.0	.0	.0	8.0	6.5	7.0	18.0	16.0	17.0
18	.0	.0	.0	.5	.0	.0	8.0	6.5	7.0	17.5	16.5	17.0
19	.0	.0	.0	.5	.0	.0	9.5	7.5	8.5	17.5	16.5	17.0
20	.0	.0	.0	1.0	.0	.0	10.0	8.5	9.0	17.5	16.0	17.0
21	.0	.0	.0	1.0	.0	.0	10.5	9.0	9.5	18.0	16.5	17.0
22	.0	.0	.0	1.0	.0	.0	10.0	9.5	9.5	18.0	16.5	17.0
23	.0	.0	.0	1.0	.0	.0	9.5	8.5	9.0	18.0	16.5	17.5
24	.0	.0	.0	1.0	.0	.5	9.5	8.0	8.5	18.0	17.0	17.5
25	.0	.0	.0	2.0	.0	.5	9.5	8.0	8.5	19.0	17.5	18.0
26	.0	.0	.0	2.0	.0	.5	8.5	7.5	8.0	18.5	17.5	18.0
27	.0	.0	.0	2.5	.0	.5	8.5	7.5	8.0	19.0	17.5	18.0
28	.0	.0	.0	2.5	.5	1.0	8.5	7.5	8.0	18.5	18.0	18.0
29	---	---	---	3.0	1.0	1.5	9.5	8.0	8.5	19.0	18.0	18.5
30	---	---	---	3.5	2.0	2.5	10.0	8.5	9.0	19.0	18.0	18.5
31	---	---	---	3.5	2.5	3.0	---	---	---	18.5	18.0	18.5
MONTH	.0	.0	.0	3.5	.0	.5	10.5	1.5	6.5	19.0	9.0	15.5

HUDSON RIVER BASIN

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WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	19.0	18.0	18.5	24.0	23.0	23.5	26.5	25.0	25.5	26.0	25.5	25.5
2	19.0	18.0	18.5	24.0	23.0	23.5	26.0	25.5	25.5	25.5	25.0	25.5
3	19.0	18.0	18.5	23.5	23.0	23.5	26.0	25.5	26.0	26.0	25.0	25.5
4	19.0	18.0	18.5	24.5	23.0	23.5	26.5	25.5	26.0	25.5	24.5	25.5
5	18.5	18.0	18.5	25.0	23.5	24.0	26.0	25.5	25.5	26.0	25.0	25.5
6	19.0	18.0	18.5	24.5	24.0	24.0	26.0	25.0	25.5	26.0	25.0	25.5
7	19.0	18.0	18.5	25.0	24.0	24.5	25.5	24.5	25.5	25.5	24.5	25.0
8	19.0	18.0	18.5	25.5	24.5	25.0	25.5	25.0	25.5	25.0	24.0	24.5
9	19.5	18.5	19.0	25.5	24.5	25.0	26.0	25.0	25.5	25.0	24.5	24.5
10	19.5	19.0	19.5	26.0	25.0	25.5	26.0	25.0	25.5	24.5	24.0	24.5
11	19.5	19.0	19.5	26.0	25.0	25.5	25.5	25.0	25.5	24.5	23.5	24.0
12	20.5	19.0	19.5	26.0	25.5	25.5	25.5	25.0	25.0	24.0	23.5	24.0
13	20.5	19.5	20.0	26.0	25.5	26.0	26.0	25.0	25.5	24.0	23.5	23.5
14	21.0	19.5	20.0	26.5	25.5	26.0	26.0	25.0	25.5	24.0	23.5	24.0
15	21.0	20.0	20.5	26.5	25.5	26.0	26.0	25.0	25.5	24.0	23.5	24.0
16	21.0	20.0	20.5	26.5	25.5	26.0	25.5	25.0	25.5	24.0	23.0	23.5
17	21.5	20.0	20.5	26.0	25.0	25.5	25.5	25.0	25.0	23.5	21.5	23.0
18	22.0	20.5	21.0	26.5	25.0	25.5	25.5	25.0	25.0	23.0	22.5	23.0
19	22.5	21.0	21.5	26.0	25.5	25.5	26.0	25.0	25.5	23.0	22.5	22.5
20	21.5	21.0	21.5	26.0	25.0	25.5	25.5	25.0	25.0	22.5	22.0	22.5
21	22.0	21.0	21.5	26.0	25.5	25.5	25.5	24.5	25.0	22.5	19.5	22.0
22	22.5	21.5	22.0	26.0	25.0	25.5	25.5	24.5	25.0	22.0	21.5	21.5
23	22.0	21.0	21.5	26.0	25.0	25.5	25.5	24.5	25.0	22.0	21.5	21.5
24	22.5	21.5	22.0	26.0	25.0	25.5	25.5	25.0	25.0	21.5	21.0	21.5
25	22.5	21.5	22.0	26.0	25.5	25.5	25.5	25.0	25.0	21.5	21.0	21.5
26	23.0	22.0	22.5	26.0	25.0	25.5	25.5	25.0	25.5	21.5	20.5	21.0
27	23.0	22.5	23.0	26.0	25.0	25.5	26.5	25.0	25.5	21.5	20.0	21.0
28	23.5	22.5	23.0	26.0	25.5	25.5	26.5	25.5	25.5	21.0	20.5	20.5
29	23.5	23.0	23.0	26.0	25.5	26.0	26.0	25.0	25.5	20.5	20.0	20.0
30	24.0	23.0	23.5	26.0	25.5	25.5	26.0	25.0	25.5	20.0	19.5	19.5
31	---	---	---	26.0	25.5	25.5	26.0	25.0	25.5	---	---	---
MONTH	24.0	18.0	20.5	26.5	23.0	25.0	26.5	24.5	25.5	26.0	19.5	23.0

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	20.0	19.0	19.5	12.5	11.5	12.0	5.5	5.0	5.0	.0	.0	.0
2	19.5	19.0	19.5	12.0	11.5	11.5	5.0	5.0	5.0	.0	.0	.0
3	19.5	18.5	19.0	12.0	11.5	11.5	5.5	5.0	5.0	.0	.0	.0
4	19.0	18.5	18.5	11.5	11.0	11.5	5.0	5.0	5.0	.0	.0	.0
5	18.5	18.0	18.5	11.5	11.0	11.0	5.5	5.0	5.0	.0	.0	.0
6	18.5	18.0	18.0	11.5	10.5	11.0	5.0	4.5	5.0	.0	.0	.0
7	18.5	17.5	18.0	11.0	10.0	10.5	5.0	4.5	4.5	.0	.0	.0
8	18.5	17.5	18.0	10.5	9.5	10.0	4.5	4.0	4.5	.0	.0	.0
9	18.5	17.5	18.0	10.0	9.5	9.5	4.5	4.0	4.0	.0	.0	.0
10	18.0	17.0	17.5	10.0	9.0	9.5	4.5	4.0	4.0	.0	.0	.0
11	17.5	17.0	17.0	10.0	9.0	9.5	4.5	3.5	4.0	.0	.0	.0
12	17.0	14.0	17.0	9.5	9.0	9.0	3.5	3.5	3.5	.0	.0	.0
13	17.0	16.0	16.5	9.5	8.5	9.0	3.5	3.0	3.5	.0	.0	.0
14	16.5	16.0	16.0	9.5	8.5	9.0	3.5	3.0	3.5	.0	.0	.0
15	16.5	16.0	16.0	9.5	8.5	9.0	3.5	3.0	3.5	.0	.0	.0
16	16.5	15.5	16.0	9.0	8.5	9.0	3.5	3.0	3.5	.0	.0	.0
17	16.5	15.5	16.0	9.0	8.5	8.5	3.0	3.0	3.0	.0	.0	.0
18	16.5	15.5	16.0	9.0	8.0	8.5	3.0	2.5	3.0	.0	.0	.0
19	16.0	15.0	15.5	8.5	8.0	8.0	3.0	2.5	2.5	.0	.0	.0
20	15.5	15.0	15.5	8.5	7.0	8.0	2.5	2.5	2.5	.0	.0	.0
21	15.5	15.0	15.5	8.0	7.0	7.5	2.5	2.0	2.5	.0	.0	.0
22	15.0	14.5	14.5	7.5	7.0	7.0	2.5	1.5	2.0	.0	.0	.0
23	14.5	14.0	14.5	7.5	7.0	7.0	2.0	1.5	1.5	.0	.0	.0
24	14.5	14.0	14.0	7.5	6.5	7.0	1.5	1.0	1.5	.0	.0	.0
25	14.5	13.5	14.0	7.0	6.5	6.5	1.5	1.0	1.5	.0	.0	.0
26	14.0	13.5	14.0	6.5	6.0	6.5	1.5	.5	1.0	.0	.0	.0
27	14.0	13.5	14.0	6.5	6.0	6.0	.5	.0	.5	.0	.0	.0
28	14.0	13.5	13.5	7.5	6.5	6.5	.5	.0	.5	.0	.0	.0
29	13.5	13.0	13.5	6.5	5.5	6.0	.5	.0	.5	.0	.0	.0
30	13.5	11.5	13.0	6.0	5.0	5.5	.0	.0	.0	.0	.0	.0
31	13.0	12.5	12.5	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	20.0	11.5	16.0	12.5	5.0	8.5	5.5	.0	3.0	.0	.0	.0

HUDSON RIVER BASIN

01372058 HUDSON RIVER BELOW Poughkeepsie, NY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

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

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

HUDSON RIVER BASIN

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01372058 HUDSON RIVER BELOW Poughkeepsie, NY--Continued

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

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

HUDSON RIVER BASIN

01372058 HUDSON RIVER BELOW Poughkeepsie, NY--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	18.0	16.0	16.5	24.0	23.0	23.0	23.5	22.5	23.0	25.5	25.0	25.0
2	18.0	16.5	17.0	24.0	23.0	23.5	23.5	22.5	23.0	25.5	25.0	25.0
3	17.0	16.5	17.0	23.5	22.5	23.5	23.5	23.0	23.5	25.5	25.0	25.0
4	18.0	16.5	17.0	23.5	23.0	23.5	24.0	23.0	23.5	25.5	25.0	25.0
5	18.0	17.0	17.5	24.0	23.0	23.5	24.0	23.0	23.5	25.5	25.0	25.5
6	18.5	17.0	18.0	24.0	23.0	23.5	24.5	23.5	24.0	25.5	25.0	25.5
7	18.5	17.5	18.0	24.0	23.5	23.5	24.5	23.5	24.0	25.5	25.0	25.5
8	19.0	18.5	18.5	24.5	23.5	24.0	24.5	24.0	24.0	25.5	25.0	25.0
9	20.0	18.5	19.0	24.5	23.5	24.0	24.5	24.0	24.0	26.0	25.0	25.0
10	20.0	19.0	19.5	24.5	23.5	24.0	24.5	24.0	24.0	25.5	25.0	25.0
11	21.0	19.5	20.5	24.5	23.5	24.0	24.5	23.5	24.0	25.5	25.0	25.0
12	21.5	20.0	21.0	24.5	23.5	24.0	24.5	23.5	24.0	25.0	24.5	25.0
13	22.0	20.5	21.5	24.0	22.0	23.5	24.0	23.5	24.0	25.0	24.5	24.5
14	23.0	21.0	22.0	25.0	23.0	23.5	25.0	23.5	24.0	25.0	24.5	24.5
15	23.5	21.5	22.5	24.0	23.0	23.0	24.5	24.0	24.0	24.5	24.0	24.5
16	23.5	22.0	22.5	24.0	22.5	23.0	24.5	24.0	24.0	24.5	24.0	24.0
17	23.5	22.5	23.0	24.0	22.5	23.0	25.0	24.0	24.5	24.0	22.0	23.5
18	23.5	22.0	23.0	24.0	22.0	22.5	25.0	24.0	24.5	23.5	22.5	23.0
19	23.0	21.5	23.0	23.5	22.5	23.0	25.0	24.0	24.5	23.0	22.5	23.0
20	23.0	22.5	23.0	23.5	22.0	23.0	25.0	24.5	25.0	23.5	22.5	23.0
21	23.5	22.5	23.0	23.5	22.5	23.0	25.0	24.5	25.0	23.0	22.5	22.5
22	23.5	22.5	23.0	24.0	22.5	23.0	25.5	24.5	25.0	22.5	22.0	22.5
23	23.5	22.5	23.0	23.5	22.0	23.0	25.5	25.0	25.0	22.5	21.5	22.0
24	23.5	23.0	23.0	24.0	23.0	23.0	25.5	25.0	25.0	22.0	21.0	21.5
25	23.5	23.0	23.5	---	---	---	25.5	25.0	25.0	21.5	20.5	21.0
26	23.5	23.0	23.0	23.5	22.5	23.5	26.0	25.0	25.0	21.0	20.0	20.5
27	24.0	23.0	23.5	24.0	23.0	23.5	26.0	25.0	25.0	20.5	20.0	20.5
28	23.5	23.0	23.5	24.5	23.0	23.5	25.5	25.0	25.0	20.5	20.0	20.0
29	24.0	23.0	23.5	23.5	22.5	23.0	25.5	25.0	25.0	20.5	19.5	20.0
30	23.5	22.5	23.0	23.5	23.0	23.0	25.5	24.5	25.0	19.5	19.0	19.5
31	---	---	---	23.5	23.0	23.0	25.5	24.5	25.0	---	---	---
MONTH	24.0	16.0	21.0	---	---	---	26.0	22.5	24.5	26.0	19.0	23.5

HUDSON RIVER BASIN

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01372500 WAPPINGER CREEK NEAR WAPPINGERS FALLS, NY

LOCATION.--Lat 41°39'11", long 73°52'23", Dutchess County, Hydrologic Unit 02020008, on left bank 700 ft downstream from Red Oak Mill dam, and 4.5 mi northeast of village of Wappingers Falls.

DRAINAGE AREA.--181 mi².

PERIOD OF RECORD.--May 1903 to June 1905 (monthly discharges and daily gage heights only, published in WSP 97, 125, 166, and 202), August 1928 to current year.

REVISED RECORDS.--WSP 741: 1932. WSP 1902: Drainage area.

GAUGE.--Water-stage recorder. Datum of gage is 114.37 ft above sea level (levels by Corps of Engineers). May 1903 to June 1905 staff gage at site 2.5 mi downstream at different datum. Aug. 7, 1928 to Sept. 25, 1931, water-stage recorder at site 2 mi downstream at different datum.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Telephone gage-height telemeter at station.

AVERAGE DISCHARGE.--68 years (water years 1929-96), 256 ft³/s, 19.21 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,600 ft³/s, Aug. 19, 1955, gage height, 19.60 ft, from floodmarks in gage shelter, from rating curve extended above 6,000 ft³/s on basis of flow-over-dam and contracted-opening measurement at gage height 18.02 ft and contracted-opening and flow-over-road measurement at gage height 19.60 ft; minimum discharge, 0.90 ft³/s, Sept. 20, 21, 1964.

EXTREMES 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)
Nov. 12	2015	2,090	6.73	Apr. 17	0745	1,910	6.48
Jan. 20	1345	*5,600	*10.33	July 14	0545	2,000	6.60
Jan. 25	0715	2,510	7.26	July 16	1630	1,600	6.03
Jan. 28	0545	2,930	7.75				

Minimum discharge, 6.6 ft³/s, Oct. 4.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	297	240	e120	752	462	271	1220	177	88	335	85
2	8.9	280	249	e110	e600	428	419	970	165	78	343	77
3	7.8	304	233	75	e500	408	393	797	196	107	302	68
4	6.8	335	233	e100	e440	353	329	751	441	319	261	64
5	31	287	222	e120	e410	e330	303	695	437	218	224	61
6	227	248	232	e110	e390	e290	286	637	329	150	199	59
7	161	236	225	e110	e370	e320	278	628	242	116	178	60
8	108	363	204	e110	e360	e300	357	537	226	96	165	77
9	65	340	194	e110	e340	e290	382	483	218	102	156	69
10	47	290	e180	e120	e320	e280	381	475	243	135	170	61
11	38	267	e170	e120	e310	e280	374	514	198	105	143	59
12	33	1460	e150	e120	e300	e290	333	844	172	84	125	55
13	29	1630	e140	e120	e280	e310	386	764	148	669	130	52
14	32	1110	e120	e120	e270	377	637	622	137	1740	128	78
15	87	1350	e150	e110	e240	545	699	534	126	984	109	79
16	91	1120	e180	e110	e230	921	1110	493	110	1300	100	63
17	66	860	e170	e120	e220	783	1800	525	99	991	121	73
18	53	704	e150	e130	e210	686	1310	531	127	670	111	314
19	45	652	e130	e400	e200	617	986	671	127	529	91	343
20	40	583	e110	4660	223	640	841	538	166	539	84	221
21	205	512	e120	2910	488	626	730	481	180	402	79	171
22	748	457	e130	1810	949	569	628	542	156	312	75	163
23	485	405	e130	1360	1030	510	563	447	127	283	70	314
24	356	367	e120	1280	894	462	699	386	103	279	98	239
25	285	334	e120	2270	828	419	598	328	94	247	138	253
26	203	306	e120	1540	685	390	524	285	86	787	100	209
27	162	278	e120	1630	606	355	553	261	79	878	81	175
28	439	264	e110	2570	576	330	480	238	76	590	233	154
29	628	277	e120	1630	535	324	533	221	74	458	145	233
30	440	265	e120	1230	---	312	1020	204	77	439	121	219
31	349	---	e120	989	---	288	---	190	---	375	100	---
TOTAL	5486.1	16181	5012	26314	13556	13495	18203	16812	5136	14070	4715	4148
MEAN	177	539	162	849	467	435	607	542	171	454	152	138
MAX	748	1630	249	4660	1030	921	1800	1220	441	1740	343	343
MIN	6.8	236	110	75	200	280	271	190	74	78	70	52
CFSM	.98	2.98	.89	4.69	2.58	2.41	3.35	3.00	.95	2.51	.84	.76
IN.	1.13	3.33	1.03	5.41	2.79	2.77	3.74	3.46	1.06	2.89	.97	.85

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1996, BY WATER YEAR (WY)

	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
MEAN	116	196	263	304	337	571	501	309	189	119	85.3	95.4
MAX	882	696	730	932	786	1195	1112	1204	813	884	845	890
(WY)	1956	1956	1973	1979	1976	1936	1983	1989	1972	1975	1955	1938
MIN	7.42	10.5	23.5	24.0	72.2	168	140	82.2	30.7	10.8	7.82	4.29
(WY)	1965	1965	1965	1981	1940	1965	1985	1941	1965	1965	1966	1964

e Estimated

HUDSON RIVER BASIN

01372500 WAPPINGER CREEK NEAR WAPPINGERS FALLS, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1928 - 1996	
ANNUAL TOTAL	80146.4		143128.1			
ANNUAL MEAN	220		391		256	
HIGHEST ANNUAL MEAN					438 1973	
LOWEST ANNUAL MEAN					65.7 1965	
HIGHEST DAILY MEAN	1630	Nov 13	4660	Jan 20	10500	Aug 19 1955
LOWEST DAILY MEAN	3.3	Sep 9	6.8	Oct 4	1.2	Sep 20 1964
ANNUAL SEVEN-DAY MINIMUM	4.6	Sep 7	47	Oct 9	2.4	Sep 24 1964
ANNUAL RUNOFF (CFSM)	1.21		2.16		1.42	
ANNUAL RUNOFF (INCHES)	16.47		29.42		19.25	
10 PERCENT EXCEEDS	520		832		606	
50 PERCENT EXCEEDS	152		270		150	
90 PERCENT EXCEEDS	12		78		23	

HUDSON RIVER BASIN

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01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY

LOCATION.--Lat 41°23'10", long 73°57'20", Orange County, Hydrologic Unit 02020008, on right bank at South Dock at West Point. Water-quality sampling site at stage station.

DRAINAGE AREA.--12,598 mi².

WATER-STAGE RECORDS

PERIOD OF RECORD.--October 1991 to current year. Records for June 1989 to September 1991 are unpublished and available in files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is mean sea level.

REMARKS.--Telephone gage-height, temperature, and specific conductance telemeter at station. Interruptions of record were due to malfunction of recording instrument and downtime during instrument service.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 6.79 ft, Dec. 11, 1992; minimum, -4.26 ft, Mar. 14, 1993.

EXTREMES FOR CURRENT YEAR.--**Water year 1992:** Maximum elevation, 4.36 ft, Dec. 3; minimum, -2.85 ft, Jan. 25.

Water year 1993: Maximum elevation, 6.79 ft, Dec. 11; minimum, -4.26 ft, Mar. 14.

Water year 1994: Maximum elevation, 5.02 ft, Nov. 28; minimum, -3.48 ft, Jan. 10.

Water year 1996: Maximum elevation, 5.12 ft, Nov. 12; minimum, -3.69 ft, Mar. 4.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	2.34	-.95	.77	3.82	-.18	2.11	2.50	-.80	.74	2.27	-1.07	.48
2	2.27	-.95	.79	3.69	.37	1.95	2.52	-1.20	.75	2.68	-1.09	.81
3	2.57	-.82	.92	2.72	-.63	1.11	4.36	-.46	2.12	2.84	-.50	1.08
4	2.52	-.88	.93	2.44	-.99	.84	3.06	-1.20	.61	4.28	.24	2.20
5	3.25	-.77	1.21	2.55	-.99	.86	1.46	-2.37	-.40	3.26	-.25	1.44
6	3.23	-.60	1.37	2.88	-.69	1.12	2.44	-1.25	.37	3.28	-.30	1.27
7	2.37	-1.18	.64	2.80	-.58	1.03	2.94	-1.23	.87	2.41	-1.15	.68
8	2.39	-1.39	.56	2.50	-.71	.84	2.26	-1.29	.55	1.87	-1.35	.25
9	2.42	-1.16	.73	2.85	-.57	1.12	3.08	-.47	1.17	2.93	-.39	1.21
10	2.56	-1.11	.84	3.60	.33	1.88	2.81	-.29	1.13	2.53	-.68	1.05
11	2.65	-.83	.92	3.37	.25	1.81	2.52	-.60	1.08	2.09	-.87	.66
12	2.50	-.77	.91	2.24	-.53	.81	2.17	-.61	.71	1.95	-.63	.69
13	2.58	-.45	.89	2.21	-.42	.89	2.40	-.73	1.08	2.58	-.34	1.22
14	2.21	-.60	.67	1.94	-.47	.74	2.51	-.96	.99	3.29	-.18	1.98
15	2.91	-.18	1.23	2.24	-.44	.93	.39	-2.49	-1.07	.79	-2.60	-.71
16	2.48	-.46	1.03	1.74	-1.33	.54	1.15	-2.19	-.44	2.80	-1.64	.28
17	3.29	-.50	1.46	1.54	-2.00	.11	2.35	-1.65	.68	1.83	-1.93	.23
18	2.08	-.36	.89	2.49	-1.08	.93	2.39	-1.23	.38	1.43	-2.08	-.43
19	2.22	-.79	.81	2.52	-.86	.78	1.43	-2.54	-.39	1.74	-2.79	-.35
20	2.37	-1.67	.58	2.41	-1.13	.80	2.17	-2.24	.13	2.71	-1.74	.45
21	2.62	-.78	.98	2.56	-.95	.74	3.10	-1.31	.55	2.85	-1.56	.63
22	2.64	-.72	.97	2.95	-1.14	.96	2.73	-2.22	.38	2.51	-1.37	.63
23	2.57	-1.04	.85	3.55	-.34	1.65	3.26	-.91	1.20	3.45	-.48	1.67
24	2.72	-.96	.91	4.19	.15	1.89	3.00	-.99	.94	3.61	-2.00	.99
25	2.83	-.93	.91	2.24	-1.22	.44	2.64	-1.20	.71	.61	-2.85	-.95
26	2.81	-1.00	.90	1.74	-1.77	-.03	2.35	-1.15	.62	2.34	-1.29	.53
27	---	---	---	2.33	-1.22	.54	2.28	-1.56	.39	2.34	-1.10	.60
28	---	---	---	2.23	-1.22	.64	1.93	-1.52	.38	2.00	-1.23	.54
29	---	---	---	1.88	-1.20	.50	2.24	-1.50	.82	2.48	-.69	.77
30	---	---	---	2.27	-1.22	.91	2.48	-.83	.78	2.18	-1.15	.76
31	---	---	---	---	---	---	3.25	-.43	1.42	2.93	-.20	1.33
MONTH	---	---	---	4.19	-2.00	.98	4.36	-2.54	.62	4.28	-2.85	.71

HUDSON RIVER BASIN

01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	2.52	-.80	.77	1.93	-1.91	.11	3.08	-.44	1.31	3.12	-.81	1.16
2	2.67	-.87	.67	2.18	-1.70	.25	2.54	-.82	1.01	3.31	-.69	1.24
3	2.85	-.75	.92	2.35	-.88	.82	2.18	-1.46	.41	3.52	-.36	1.30
4	3.28	-.74	1.32	2.24	-1.16	.58	2.64	-1.28	.57	3.52	-.40	1.35
5	2.67	-2.01	.09	2.24	-1.11	.64	2.63	-1.46	.50	3.63	-.15	1.65
6	2.97	-.81	1.09	2.64	-1.27	.57	2.30	-1.24	.48	3.90	-.18	1.65
7	3.24	.05	1.79	2.86	-.35	1.31	2.67	-.58	1.03	3.30	-.34	1.34
8	3.69	.46	2.19	2.97	-.75	1.09	3.10	-1.02	.94	3.22	-.41	1.27
9	2.96	-2.40	.34	2.57	-.44	1.12	2.63	-.64	.91	2.86	-.55	1.18
10	.83	-2.16	-.57	3.18	.11	1.52	2.60	-.76	.82	2.51	-.88	.95
11	2.23	-1.28	.46	3.78	-.89	1.84	2.40	-.56	1.12	2.96	-.82	1.17
12	.75	-2.23	-.54	1.47	-1.40	-.06	2.76	-.93	.89	2.89	-.89	1.19
13	2.23	-1.10	.54	1.19	-1.40	.06	2.31	-1.72	.32	3.06	-1.05	1.08
14	2.63	-1.20	.61	2.22	-1.07	.48	2.43	-1.52	.55	2.95	-1.10	1.04
15	2.73	-1.28	.95	2.28	-1.46	.41	2.58	-1.35	.58	3.01	-1.06	.86
16	3.58	-.46	1.33	2.21	-1.77	.33	3.07	-1.09	.78	2.77	-1.12	.83
17	2.41	-1.67	.56	2.53	-1.30	.66	3.23	-.79	1.14	2.84	-.96	.77
18	2.90	-1.16	.98	2.52	-1.65	.33	3.47	-.47	1.28	2.84	-.98	.80
19	3.32	-.61	1.39	3.48	-1.01	1.08	3.48	-.44	1.32	2.46	-1.16	.66
20	3.07	-.97	1.01	3.48	-.46	1.57	3.13	-.65	1.05	2.68	-.78	.72
21	2.71	-1.15	.75	3.45	-1.12	1.01	2.78	-.44	1.04	2.25	-1.03	.42
22	2.15	-1.20	.60	3.07	-.72	1.24	3.00	-.34	1.10	2.08	-.96	.52
23	2.53	-1.12	.65	3.57	-.36	1.50	2.61	-.41	.86	2.10	-.85	.80
24	2.44	-.43	1.11	2.70	-.89	.79	2.27	-.28	1.08	2.45	-.78	.73
25	3.10	-.01	1.35	2.02	-.76	.62	2.79	.08	1.46	2.57	-.43	1.22
26	2.51	-.22	1.13	2.13	-.45	.87	3.04	.54	1.84	2.56	-.28	1.39
27	2.28	-.65	.70	4.01	.15	2.14	2.56	-.19	1.30	2.58	-.49	1.17
28	2.16	-1.01	.74	1.94	-1.08	.24	2.65	-.35	1.27	2.63	-.80	.94
29	1.82	-2.30	-.16	.97	-1.81	-.42	3.21	-.28	1.39	2.69	-1.18	.78
30	---	---	---	2.30	-.71	.87	3.18	-.48	1.33	2.85	-1.20	.77
31	---	---	---	2.44	-.97	.94	---	---	---	3.57	-.54	1.30
MONTH	3.69	-2.40	.79	4.01	-1.91	.79	3.48	-1.72	.99	3.90	-1.20	1.04
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	3.54	-.46	1.48	---	---	---	3.52	-1.18	.98	---	---	---
2	3.54	-.52	1.43	---	---	---	2.83	-.91	1.03	---	---	---
3	3.54	-.67	1.29	3.36	-.66	1.25	2.87	-.91	1.15	---	---	---
4	3.39	-.66	1.19	3.33	-.37	1.44	3.04	-.58	1.33	---	---	---
5	3.18	-.43	1.59	3.21	-.48	1.51	2.43	-1.03	.86	---	---	---
6	4.06	.04	1.94	3.19	-.49	1.48	2.49	-.92	.80	---	---	---
7	3.23	-.33	1.50	2.76	-.84	1.18	2.50	-.92	.79	---	---	---
8	2.82	-.65	1.23	2.78	-1.00	1.04	2.87	-.59	1.01	---	---	---
9	2.68	-.86	1.09	2.85	-.50	1.30	2.91	-.46	1.24	---	---	---
10	2.96	-.84	1.10	2.78	-.81	.97	3.11	-.42	1.18	---	---	---
11	3.06	-.88	1.04	2.69	-1.00	.88	2.95	-.34	1.29	2.35	-.88	.81
12	3.04	-.92	1.04	3.11	-.66	1.04	2.70	-.69	.89	2.45	-1.12	.69
13	2.96	-.98	.91	2.68	-.73	1.09	3.10	-.70	1.10	2.35	-.93	.83
14	3.00	-.78	.99	3.52	-.57	1.31	3.22	-.11	1.51	2.39	-.91	.87
15	2.82	-1.03	.81	3.30	-.27	1.42	3.22	-.22	1.51	2.36	-.90	.80
16	2.81	-.86	.79	3.51	-.05	1.61	3.09	-.33	1.33	2.34	-.98	.75
17	2.66	-.91	.72	3.53	-.08	1.58	2.63	-.46	1.17	2.51	-.92	.83
18	2.69	-.78	.96	3.22	-.16	1.43	2.64	-.56	1.18	2.64	-.72	1.00
19	2.82	-.47	1.10	2.89	-.47	1.21	2.69	-.46	1.21	2.20	-.72	.79
20	2.89	-.36	1.26	2.60	-.66	1.14	2.51	-.65	1.01	2.72	-.66	.94
21	2.45	-.62	.97	2.49	-.69	.97	2.50	-.64	.93	2.95	-.51	1.22
22	1.87	-1.07	.50	2.29	-1.00	.88	2.30	-1.08	.69	3.20	-.41	1.42
23	2.11	-.93	.71	2.84	-.41	1.30	2.71	-.85	.93	2.34	-1.45	.62
24	2.72	-.55	1.16	2.81	-.29	1.35	2.89	-.90	.98	3.66	-.93	1.41
25	2.46	-.74	1.13	2.95	-.60	1.19	2.80	-1.17	.90	3.76	-.16	1.87
26	2.95	-.64	1.09	3.30	-.73	1.24	3.22	-.86	1.15	3.97	-.14	1.85
27	2.93	-.70	1.05	3.41	-.71	1.39	3.42	-.72	1.33	3.26	-.76	1.30
28	2.98	-1.09	.93	3.06	-1.02	1.10	4.23	-.44	1.70	3.02	-.95	1.07
29	---	---	---	3.29	-.84	1.16	4.15	-.78	1.49	2.61	-1.35	.60
30	---	---	---	3.20	-.96	1.10	3.02	-1.01	1.10	2.44	-1.30	.49
31	---	---	---	3.44	-.70	1.40	2.88	-1.02	.91	---	---	---
MONTH	---	---	---	---	---	---	4.23	-1.18	1.12	---	---	---

HUDSON RIVER BASIN

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01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	2.27	-1.24	.58	1.95	-.81	.75	2.22	-.41	.77	2.12	-2.13	-.03
2	2.66	-.52	.99	2.62	-.77	1.10	2.72	-.07	1.31	1.17	-2.13	.00
3	2.03	-1.04	.55	2.87	.09	1.53	2.39	-1.77	.42	1.91	-1.46	.61
4	2.45	-.77	.77	2.66	-.20	1.36	1.82	-1.77	.64	2.37	-1.02	.78
5	2.46	-.04	1.22	2.30	-.26	1.15	1.41	-2.51	-.43	2.95	-.98	.71
6	2.45	-.23	1.11	2.32	-.65	.77	1.37	-3.01	-.31	2.64	-1.86	.74
7	2.29	-.59	.88	2.47	-.87	.81	1.69	-2.02	-.24	3.36	-.67	1.29
8	2.60	-.77	.86	2.59	-.92	.73	2.19	-2.02	.18	3.42	-.70	1.26
9	3.19	-.47	1.35	2.55	-1.09	.70	2.69	-1.31	.58	3.40	-.91	1.25
10	2.98	-.51	1.37	2.56	-1.09	.80	4.30	-1.13	1.45	3.80	-.50	1.53
11	3.01	-.39	1.36	2.83	-.76	.90	6.79	2.06	4.35	3.31	-.77	1.22
12	2.85	-.51	1.19	2.99	-1.24	.86	5.65	1.08	3.01	2.95	-.90	1.02
13	2.64	-.57	1.03	3.34	-1.01	1.37	4.76	.22	2.69	3.37	-.20	1.60
14	2.74	-.80	1.01	2.21	-1.45	.40	4.92	.90	2.88	3.68	-.19	1.65
15	2.80	-.79	1.03	2.61	-.85	.75	3.91	-.26	1.84	3.51	-.89	1.43
16	2.90	-.70	1.15	2.19	-1.30	.46	2.77	-.72	1.21	2.57	-.86	.98
17	2.27	-1.28	.63	2.44	-1.05	.81	2.68	-.67	1.25	3.16	-.44	1.40
18	2.69	-.61	.97	2.28	-1.03	.75	2.30	-1.20	.40	1.54	-1.60	.05
19	2.76	-.61	1.17	2.27	-1.00	.79	2.53	-1.45	.92	2.08	-1.94	.04
20	2.93	-.71	1.30	2.58	-1.19	.85	3.17	-.84	.95	2.18	-1.74	-.03
21	2.39	-.65	.95	2.64	-1.20	.84	1.70	-2.00	.08	2.45	-1.72	.56
22	2.20	-1.17	.61	2.93	-.99	.97	3.00	-1.21	.86	3.49	-.61	1.28
23	2.66	-1.10	.91	3.26	-.93	1.21	3.19	-.88	1.04	2.39	-1.33	.56
24	2.72	-.92	.92	3.76	-.41	1.73	2.21	-2.52	-.21	3.04	-.88	1.20
25	2.68	-1.33	.66	4.07	-.05	1.83	2.39	-2.09	.31	3.02	-1.60	.27
26	2.69	-1.33	.61	3.65	-.34	1.57	1.92	-2.13	-.38	2.00	-1.50	.34
27	2.37	-1.52	.45	2.97	-.65	1.10	1.87	-1.93	-.11	2.61	-.71	1.04
28	2.70	-1.27	.74	2.79	-.57	.97	1.78	-1.23	.35	2.11	-.73	.80
29	2.74	-1.06	.85	2.78	-.57	1.06	1.89	-1.11	.54	1.98	-2.44	.03
30	2.31	-.92	.71	2.07	-1.02	.59	1.86	-.66	.61	.45	-2.01	-.78
31	2.38	-.63	.82	---	---	---	2.69	-.04	1.45	1.81	-1.22	.68
MONTH	3.19	-1.52	.93	4.07	-1.45	.98	6.79	-3.01	.92	3.80	-2.44	.76
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	2.91	-1.57	.58	3.38	.20	1.82	3.84	1.12	2.60	3.01	-.54	1.43
2	2.67	-1.65	.51	2.71	-.74	.86	3.99	1.12	2.55	2.97	-.87	1.16
3	3.42	-.42	1.42	2.43	-.66	.86	3.61	.28	1.91	3.36	-.95	1.19
4	2.26	-2.05	.27	3.91	-.74	1.50	3.14	-.44	1.37	3.25	-1.07	1.19
5	3.03	-1.46	.94	4.54	.48	2.56	3.77	-.29	1.64	3.47	-1.08	1.04
6	2.65	-1.37	.53	3.64	-.43	1.62	4.23	-.23	1.74	3.38	-1.00	1.19
7	3.31	-1.18	1.08	2.99	-1.01	1.02	4.16	-.15	1.87	3.28	-.97	1.01
8	3.08	-1.13	.94	2.97	-1.35	.78	4.16	-.25	1.68	3.26	-.63	1.14
9	2.72	-1.46	.76	2.84	-1.42	.66	3.85	-.27	1.62	3.28	-.88	.93
10	2.88	-1.14	.86	3.12	-1.39	.81	3.89	.34	2.06	2.80	-.70	1.18
11	2.47	-1.07	.72	3.31	-1.81	.65	4.23	.59	2.07	3.42	-.38	1.25
12	3.83	.19	1.98	1.85	-1.71	.08	3.61	.27	1.79	2.66	-.33	1.49
13	4.26	-1.10	1.54	3.36	-.91	1.73	2.78	.22	1.60	3.22	-.27	1.55
14	2.03	-1.36	.21	5.42	-4.26	.06	3.14	.28	1.70	2.75	-.23	1.46
15	2.17	-1.36	.62	-.17	-4.19	-2.03	2.90	.15	1.63	2.99	-.16	1.57
16	2.85	-1.06	1.17	1.43	-1.81	.04	3.46	.37	2.00	2.48	-.65	1.17
17	2.04	-1.92	.13	1.57	-1.38	.03	3.61	.36	2.12	2.85	-.69	1.10
18	2.20	-1.78	.38	1.18	-2.17	-.67	2.73	-.41	1.25	3.02	-.51	1.17
19	2.18	-1.67	.40	2.27	-1.01	.67	3.24	.06	1.50	3.30	-.27	1.45
20	3.17	-.80	1.10	2.21	-1.33	.56	3.22	-.21	1.39	3.43	-.18	1.58
21	3.35	-1.06	1.07	2.10	-1.28	.50	3.41	-.29	1.42	3.36	-.54	1.27
22	3.37	-.12	1.74	1.90	-1.53	.31	3.43	.01	1.72	3.20	-.80	1.09
23	3.07	-1.01	.99	2.19	-1.56	.27	3.35	-.58	1.22	3.04	-.78	.99
24	1.68	-1.89	-.08	2.56	-1.11	.67	3.10	.01	1.32	3.07	-.62	1.09
25	1.44	-1.98	-.16	2.58	-.92	.85	3.12	.10	1.47	3.17	-.69	1.01
26	2.25	-1.00	.63	2.60	-.96	.71	3.21	-.62	1.08	2.65	-1.00	.71
27	2.42	-.88	.93	2.56	-.66	.86	2.63	-.31	1.15	2.53	-1.04	.62
28	3.17	-.05	1.34	2.82	-.32	1.21	3.87	.73	2.14	2.40	-.95	.95
29	---	---	---	3.03	.23	1.61	3.45	.26	1.82	2.65	-1.22	.78
30	---	---	---	3.67	1.03	2.21	3.13	-.06	1.72	2.36	-1.43	.65
31	---	---	---	3.92	1.12	2.35	---	---	---	3.45	-.88	1.22
MONTH	4.26	-2.05	.81	5.42	-4.26	.81	4.23	-.62	1.70	3.47	-1.43	1.15

HUDSON RIVER BASIN

01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	3.01	-1.12	1.26	3.07	-.98	.95	3.01	-.59	1.08	2.79	-.52	1.22
2	3.17	-.98	1.05	3.27	-.72	1.18	3.19	-.38	1.38	3.10	-.35	1.40
3	3.04	-1.19	.91	3.16	-.81	1.20	2.98	-.56	1.12	3.10	-.01	1.59
4	3.18	-.96	.97	2.99	-.77	1.06	2.78	-.68	.97	2.70	-.66	1.00
5	3.30	-.70	1.15	3.08	-.63	1.08	2.46	-.83	.84	2.65	-.48	1.15
6	3.30	-1.13	.96	3.08	-.48	1.21	2.38	-.77	.96	2.67	-.38	1.27
7	2.83	-.74	1.00	3.00	-.46	1.12	2.80	-.23	1.40	2.37	-.54	1.00
8	2.81	-.83	1.00	2.61	-.65	1.10	2.54	-.61	1.06	2.60	-.31	1.09
9	2.96	-.50	1.17	2.69	-.45	1.20	2.24	-.64	.96	2.99	-.01	1.41
10	2.66	-.61	1.02	2.59	-.39	1.22	2.35	-.64	.99	2.77	-.22	1.37
11	2.29	-.68	.91	2.40	-.55	1.14	2.53	-.48	1.11	2.01	-1.11	.56
12	2.35	-.62	1.02	2.42	-.32	1.18	2.67	-.24	1.25	2.77	-.79	.88
13	2.37	-.59	1.03	2.50	-.38	1.20	2.95	-.29	1.26	2.65	-.92	.96
14	2.41	-.75	.96	2.76	-.53	1.02	3.17	-.54	1.24	2.67	-1.02	.86
15	2.95	-.60	1.10	2.36	-1.04	.80	3.16	-.63	1.24	2.74	-1.09	.86
16	2.43	-1.08	.76	2.73	-.69	.89	3.18	-.68	1.27	3.10	-1.31	.77
17	2.75	-.96	.70	2.96	-.95	.81	3.29	-.47	1.40	3.55	-.56	1.50
18	2.80	-.97	.80	3.09	-.85	1.05	3.40	-.48	1.39	3.44	-.66	1.44
19	2.66	-1.14	.69	3.44	-.58	1.34	3.39	-.36	1.54	3.06	-.82	1.11
20	3.13	-.92	.90	3.26	-.68	1.27	3.31	-.44	1.46	3.00	-.92	1.07
21	3.24	-.74	1.12	3.07	-.87	.98	3.09	-.61	1.19	2.88	-.65	1.15
22	3.24	-.77	1.11	2.80	-.86	.95	3.10	-.58	1.33	2.71	-.65	1.13
23	2.68	-1.15	.64	2.66	-.92	.92	2.97	-.62	1.32	3.10	-.11	1.41
24	2.63	-.81	.95	2.56	-.95	.95	2.87	-.52	1.31	2.44	-.85	.90
25	2.82	-.83	1.11	2.54	-.98	.98	2.47	-.75	1.02	2.79	-.55	1.11
26	2.65	-.82	1.10	2.85	-.59	1.35	2.53	-.81	.86	2.96	-.21	1.51
27	2.54	-1.25	.87	2.91	-.39	1.41	2.79	-.67	1.03	3.02	-.37	1.27
28	2.84	-.87	1.16	2.94	-.71	1.16	2.85	-.46	1.19	2.09	-1.08	.60
29	2.84	-1.08	.99	3.18	-.45	1.31	2.87	-.67	.97	2.13	-.98	.66
30	2.82	-1.08	.95	3.13	-.42	1.33	2.85	-.55	1.14	2.49	-.93	.89
31	---	---	---	2.80	-.71	1.10	3.13	-.44	1.30	---	---	---
MONTH	3.30	-1.25	.98	3.44	-1.04	1.11	3.40	-.83	1.18	3.55	-1.31	1.10

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	2.79	-.72	1.13	3.49	-1.31	1.02	2.78	-.96	.83	1.93	-2.33	-.16
2	2.69	-.46	1.19	1.48	-2.13	-.26	2.96	-.70	1.03	2.52	-1.18	.60
3	2.45	-.80	.78	---	---	---	2.90	-.70	1.00	2.48	-1.55	.66
4	2.46	-.86	.81	2.44	-.91	.80	3.18	-.39	1.34	4.50	-.80	2.36
5	1.94	-1.52	.35	3.19	-.36	1.28	3.32	-.83	1.70	1.79	-2.92	-.17
6	2.22	-1.00	.62	2.68	-.68	1.13	3.57	-.42	1.68	1.10	-2.99	-.55
7	2.06	-1.01	.53	1.93	-1.16	.57	3.40	-.88	1.32	2.24	-1.78	.37
8	1.98	-.95	.47	2.02	-1.15	.66	2.88	-.88	1.23	3.35	-1.22	.76
9	3.31	-.53	1.44	2.00	-1.32	.51	2.90	-.92	1.20	1.38	-2.93	-.85
10	1.99	-1.01	.56	2.24	-1.39	.66	3.38	-.81	1.66	.74	-3.48	-1.33
11	2.95	-1.03	1.07	2.73	-1.25	1.03	3.83	-.48	1.34	2.20	-2.57	-.10
12	3.23	-.41	1.62	2.75	-1.24	.72	2.87	-1.46	.68	2.62	-1.79	.42
13	2.79	-1.34	.88	2.69	-1.66	.71	2.99	-1.32	.83	3.47	-.92	1.15
14	2.71	-1.29	.84	3.05	-1.07	.95	4.20	-.25	1.74	3.70	-.45	1.47
15	3.10	-.96	1.04	2.87	-1.30	.73	3.80	-.52	1.60	2.51	-1.99	.37
16	2.99	-1.11	1.01	2.49	-1.66	.48	3.74	-.11	1.77	.97	-2.34	-.62
17	3.33	-.90	1.26	2.76	-1.03	.87	4.16	.35	2.23	2.27	-.85	.72
18	3.01	-.73	1.16	---	-1.26	.47	3.16	-.70	1.28	2.26	-2.33	.10
19	2.83	-.96	.93	3.22	-.01	1.48	2.43	-.81	1.03	.40	-2.12	-.76
20	3.14	-.44	1.38	2.83	-2.15	.66	2.11	-.60	.86	.85	-1.53	-.28
21	3.36	-.25	1.73	1.44	-1.97	-.12	3.16	-.56	1.86	1.31	-1.39	.10
22	1.72	-1.29	.11	1.27	-1.44	.04	.73	-2.37	-.69	1.13	-1.85	-.41
23	1.64	-1.29	.24	1.54	-1.60	.37	1.46	-1.59	.25	1.69	-2.21	.11
24	2.30	-.98	.86	2.30	-.98	.86	2.27	-1.11	.96	2.48	-1.21	.61
25	1.66	-1.13	.41	2.22	-1.52	.78	2.65	-.30	1.19	2.43	-1.42	.51
26	3.24	-.93	1.54	2.31	-1.05	.59	1.40	-2.41	-.33	2.84	-1.30	.75
27	3.47	.18	1.93	3.29	-1.20	1.22	.61	-3.37	-1.26	2.97	-1.49	.73
28	3.30	-.31	1.58	5.02	.77	2.78	1.58	-2.22	-.35	3.84	-1.16	1.34
29	2.64	-.57	1.15	2.79	-.56	1.05	2.45	-1.70	.55	3.23	-1.73	.81
30	2.86	-.49	1.20	2.63	-.79	.73	2.42	-2.09	.11	2.35	-1.80	.28
31	3.77	.28	1.84	---	---	---	2.17	-1.93	.02	2.83	-1.34	.81
MONTH	3.77	-1.52	1.02	---	---	---	4.20	-3.37	.92	4.50	-3.48	.32

HUDSON RIVER BASIN

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01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	3.17	-1.18	1.04	2.33	-1.59	.37	2.88	-.43	1.04	3.09	-.43	1.30
2	3.05	-.81	1.04	2.48	-1.36	.94	2.89	-.23	1.38	2.08	-.82	.67
3	3.16	-1.86	.88	4.86	.02	2.78	3.16	-.13	1.43	1.91	-.88	.66
4	2.00	-1.85	.31	3.91	-.83	1.35	2.11	-.73	.84	2.34	-.79	.86
5	2.57	-1.30	.90	2.52	-1.33	.48	2.59	-.22	1.23	2.81	-.39	1.41
6	2.87	-1.04	1.04	2.16	-1.44	.67	2.69	-.28	1.31	2.20	-.76	.85
7	3.13	-1.15	.83	2.83	-.67	1.07	2.82	-.55	.96	2.81	-1.14	.63
8	3.04	-1.48	.86	2.24	-1.07	.62	2.31	-1.02	.57	3.10	-.44	1.43
9	4.05	-.44	1.67	2.13	-1.60	.27	2.85	-.70	.90	3.15	-.43	1.27
10	2.86	-1.43	.76	3.14	-.60	1.14	2.44	-.55	.96	2.77	-1.04	.79
11	3.14	-1.23	.97	1.98	-1.34	.40	2.04	-1.19	.35	3.26	-.76	1.01
12	3.72	-.58	1.50	2.68	-1.16	.70	2.47	-.93	.50	3.24	-.65	1.08
13	3.75	-.62	1.59	2.67	-.62	1.02	3.02	-.45	1.12	2.27	-1.47	.27
14	2.46	-2.31	-.08	2.60	-.66	.97	3.14	-.08	1.36	1.95	-1.19	.34
15	2.41	-1.34	.60	2.77	-.30	1.32	2.70	-.06	1.17	2.27	-.88	.87
16	2.97	-1.41	.61	2.98	-.79	1.09	2.86	.30	1.43	2.99	-.32	1.28
17	2.56	-.52	1.04	1.48	-1.52	-.18	2.76	.20	1.28	2.71	-.35	1.24
18	2.29	-1.02	.51	1.75	-.80	.66	2.41	-.11	.93	3.16	-.06	1.57
19	2.31	-.51	.77	2.55	-.84	.51	2.34	.05	1.18	3.27	-.09	1.73
20	2.45	-.82	.68	1.76	-.75	.29	2.25	-.56	.80	3.52	-.13	1.89
21	2.20	-1.16	.60	2.32	-.11	1.08	2.34	-.75	.91	3.39	-.62	1.58
22	2.29	-1.16	.63	3.07	-.77	.95	2.39	-1.11	.78	3.35	-.84	1.37
23	3.74	-1.07	1.65	2.55	-.80	.86	3.04	-1.17	.89	3.63	-.67	1.51
24	4.31	-.27	1.99	3.16	-.36	1.51	2.94	-1.28	.86	3.78	-.67	1.48
25	2.27	-1.65	.39	3.43	-.35	1.46	4.00	-.85	1.23	3.79	-.37	1.69
26	2.82	-1.51	.57	3.28	-.66	1.13	3.86	-.64	1.62	3.84	-.41	1.61
27	1.98	-2.65	-.55	3.88	-.46	1.57	3.71	-.42	1.44	3.86	-1.15	1.05
28	1.73	-2.70	-.35	3.80	-.24	1.71	3.63	-1.06	1.02	3.03	-.59	1.18
29	---	---	---	3.82	-.55	1.47	2.99	-.67	1.03	3.06	-.61	1.08
30	---	---	---	3.60	-.84	1.23	3.13	-.51	1.11	2.70	-.78	.98
31	---	---	---	2.89	-.82	.93	---	---	---	2.35	-.95	.91
MONTH	4.31	-2.70	.80	4.86	-1.60	.98	4.00	-1.28	1.05	3.86	-1.47	1.15

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	2.37	-.79	.95	2.29	-.76	1.00	2.46	-.63	.90	2.19	-.65	.75
2	1.87	-.96	.63	2.50	-.69	.98	2.56	-.56	.94	2.69	-.92	.84
3	2.03	-1.23	.50	2.00	-1.00	.72	2.73	-.57	1.01	2.82	-.93	.80
4	2.38	-1.09	.68	2.57	-.72	.82	3.01	-.60	1.04	3.21	-.58	1.22
5	2.71	-.70	.97	2.78	-.71	.93	2.10	-.91	.84	3.63	-.51	1.41
6	2.79	-.82	.93	2.73	-.84	.93	2.98	-1.45	.79	3.42	-.71	1.36
7	2.47	-.92	.86	2.97	-.76	.95	2.94	-.83	1.04	2.85	-.90	1.05
8	2.62	-1.08	.73	3.04	-.56	1.07	3.02	-.61	1.15	2.68	-.95	.94
9	2.88	-.75	.89	3.21	-.49	1.18	3.01	-.51	1.22	2.83	-.84	1.07
10	2.85	-.79	.83	3.16	-.66	1.12	2.89	-.94	.85	2.75	-.82	.96
11	2.85	-.75	.88	2.87	-.86	.87	2.40	-1.09	.78	2.48	-1.01	.72
12	2.92	-.64	1.07	2.78	-.73	.99	2.48	-1.04	.85	2.29	-1.15	.58
13	2.78	-.65	1.02	2.73	-.73	1.00	2.74	-.80	1.00	2.39	-1.01	.75
14	2.91	-.50	1.09	2.49	-.88	1.02	2.41	-.91	.91	2.62	-.72	1.00
15	2.46	---	---	2.82	-.61	1.27	2.20	-1.27	.59	2.85	-.58	1.11
16	2.35	---	---	2.66	-.78	1.14	2.44	-1.15	.67	2.89	-.50	1.22
17	2.51	-.95	.98	2.76	-.98	1.01	2.62	-1.09	.78	2.77	-.51	1.16
18	2.55	-1.07	.94	3.08	-.78	1.22	3.03	-.44	1.31	2.50	-1.04	.86
19	2.53	-1.31	.74	3.03	-.82	1.16	2.88	-.91	1.00	2.76	-.62	1.07
20	2.93	-1.21	.87	2.87	-1.06	.95	3.29	-.50	1.26	2.50	-.96	.90
21	3.21	-.97	1.09	3.02	-.98	.94	3.07	-.35	1.38	2.39	-.90	.84
22	2.95	-1.28	.92	2.90	-.93	1.07	2.97	-.78	1.13	3.13	-.78	1.28
23	3.13	-1.02	.98	2.75	-.95	.87	3.35	-.16	1.65	3.59	.25	1.98
24	3.39	-.67	1.23	2.83	-.83	.94	3.14	-.40	1.33	2.65	-.42	1.17
25	3.39	-.29	1.46	2.83	-.64	1.11	2.72	-.58	1.21	2.79	-.22	1.26
26	3.26	-.55	1.22	2.92	-.56	1.27	2.44	-.68	.99	3.03	.10	1.54
27	3.00	-.58	1.34	2.88	-.60	1.13	2.22	-.67	.90	3.26	.74	1.89
28	3.09	-.52	1.20	2.80	-.33	1.29	2.56	-.43	1.07	2.89	.22	1.52
29	2.69	-.61	1.20	2.11	-.95	.82	1.99	-.71	.79	2.18	-.29	1.15
30	2.74	-.63	1.16	2.30	-.64	.97	2.06	-.74	.69	1.66	-1.27	.33
31	---	---	---	2.15	-.83	.77	2.62	-.46	.90	---	---	---
MONTH	3.39	---	---	3.21	-1.06	1.02	3.35	-1.45	1.00	3.63	-1.27	1.09

HUDSON RIVER BASIN

01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER				NOVEMBER			DECEMBER			JANUARY		
1	2.91	-.35	1.36	2.60	-.65	1.11	3.36	-.83	1.34	2.81	-.69	1.20
2	2.96	-.22	1.41	3.04	-.66	1.47	.88	-1.90	-.34	3.16	-.44	1.30
3	2.94	-.35	1.38	3.22	-.38	1.59	2.79	-1.55	1.03	3.93	-.05	1.86
4	2.94	-.12	1.51	2.53	-.64	.95	2.82	-.74	.94	3.27	-.59	1.32
5	3.22	-.26	1.45	2.33	-1.20	.67	2.67	-1.35	.88	2.80	-1.78	.49
6	3.62	.29	2.01	2.75	-.87	.99	2.98	-.88	1.02	1.73	-2.39	-.39
7	3.78	.19	2.08	3.36	-.50	1.57	2.56	-1.23	.66	3.05	-1.36	.88
8	3.38	-.10	1.62	2.73	-.79	.93	2.35	-1.34	.48	4.05	.21	2.35
9	2.90	-.49	1.26	2.13	-1.16	.42	3.06	-.77	1.12	3.20	-.47	1.57
10	2.97	-.41	1.33	3.04	-.83	1.14	2.12	-1.36	.34	3.48	-.87	1.41
11	2.94	-.39	1.29	4.19	-.70	1.64	1.12	-2.33	-.64	2.92	-.80	1.13
12	2.51	-.65	.97	5.12	-1.17	1.49	1.71	-1.57	-.01	3.54	-.03	1.77
13	2.53	-.64	1.01	2.89	-.08	1.12	1.98	-.88	.48	3.27	-.91	1.20
14	2.90	-.20	1.47	4.15	.67	2.56	2.49	-.44	.90	2.92	-.94	1.19
15	2.45	-.47	.91	5.09	-.42	2.69	2.03	-.57	.83	2.52	-1.46	.53
16	1.22	-1.35	.01	2.00	-.58	.80	2.72	-.49	1.56	2.80	-1.75	.82
17	1.32	-1.51	-.15	2.02	-.61	.85	2.80	-.58	1.21	2.99	-1.45	.87
18	2.45	-.66	1.06	2.50	-.69	1.08	2.39	-1.24	.67	2.84	-1.52	.68
19	2.28	-.60	.83	3.11	-.45	1.29	3.24	-1.26	1.35	4.62	-.95	2.39
20	3.23	-.57	1.36	3.28	-.87	1.47	3.94	-.22	1.66	4.24	-.13	1.98
21	4.04	.63	2.57	3.97	-.21	1.85	2.93	-1.41	.42	5.02	.65	2.55
22	3.20	-.02	1.58	3.67	-.49	1.42	2.21	-2.72	-.31	4.25	.01	2.03
23	3.12	-.24	1.38	3.66	-.85	1.32	3.53	-1.07	1.21	3.69	-.31	1.65
24	3.26	-.54	1.41	3.15	-1.12	1.01	3.34	-.77	1.21	---	---	---
25	3.07	-.66	1.16	3.42	-.99	1.18	3.10	-.93	1.06	---	---	---
26	3.38	-.77	1.25	3.48	-.64	1.37	2.59	-1.31	.75	---	---	---
27	3.62	-.56	1.61	3.53	-.30	1.56	2.10	-1.45	.37	5.09	-.20	2.57
28	4.13	.32	2.16	2.71	-1.48	.90	2.58	-1.10	.99	---	---	---
29	2.72	-1.10	.80	2.84	-1.18	.97	2.19	-1.44	.49	2.29	---	---
30	1.97	-1.29	.35	2.84	-.40	1.34	2.01	-1.45	.59	2.56	-.04	1.14
31	2.60	-.83	.86	---	---	---	2.10	-1.36	.70	2.66	-.54	1.07
MONTH	4.13	-1.51	1.27	5.12	-1.48	1.29	3.94	-2.72	.74	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	2.66	-.83	.94	2.22	-1.04	.80	3.01	-.54	1.28	3.52	-.37	1.43
2	2.85	-.84	.88	2.83	-.75	1.18	2.82	-1.06	.90	3.34	-.26	1.52
3	2.65	---	---	3.05	-1.79	.48	3.01	-.70	1.21	3.57	-.36	1.38
4	3.21	---	---	.57	-3.69	-1.50	2.76	-1.16	.77	3.63	-.41	1.49
5	3.24	---	---	1.79	-2.44	-.29	3.15	-.83	1.06	3.63	-.59	1.33
6	2.17	---	---	1.30	---	---	3.19	-.65	1.20	3.57	-.65	1.31
7	2.42	---	---	2.89	-.84	1.13	3.49	-.08	1.82	3.43	-.68	1.13
8	---	---	---	2.80	-1.25	.74	3.88	-.20	1.73	3.11	-.59	1.08
9	---	---	---	1.47	-2.45	-.59	3.49	---	---	2.96	-.68	1.07
10	2.05	---	---	1.09	-2.10	-.37	3.56	-1.50	.93	3.01	-.51	1.25
11	2.82	-.63	1.16	1.86	-1.58	.06	1.63	-1.63	.15	3.03	-.64	1.32
12	2.33	---	---	2.09	-1.22	.54	---	-1.08	---	2.61	-.83	1.01
13	2.05	---	---	2.77	-.67	.99	2.84	-1.00	1.13	2.71	-.41	1.16
14	2.51	---	---	2.78	-.67	1.15	3.10	-.59	1.33	2.98	-.53	1.17
15	3.33	---	---	3.00	-.73	1.23	3.58	-.89	1.32	3.02	-.64	1.07
16	3.30	---	---	2.61	-1.38	.75	4.59	.59	2.52	3.39	-.36	1.34
17	3.50	-1.39	.91	2.88	-1.14	.99	3.40	-.10	1.71	3.18	-.50	1.30
18	2.93	-1.79	.53	3.08	-1.05	1.02	3.33	-.42	1.37	3.34	-.33	1.34
19	2.83	-1.69	.59	5.01	-.70	1.57	3.31	-.26	1.44	3.46	-.09	1.52
20	3.09	-1.41	.93	5.01	.31	2.62	3.30	-.35	1.27	3.51	-.02	1.53
21	2.91	-.99	.96	4.15	-.01	1.92	3.14	-.71	1.01	3.22	.04	---
22	2.87	-.73	1.08	3.61	-.67	1.26	2.40	-.67	.92	3.00	-.21	1.23
23	2.94	-.49	1.18	2.76	-1.59	.43	2.98	-.22	1.40	2.71	-.29	1.14
24	3.06	-.89	1.14	1.78	-1.32	.22	2.51	-1.12	.58	2.29	-.56	.88
25	2.04	-1.88	-.23	2.37	-.54	1.03	2.29	-.12	1.24	2.00	-.62	.82
26	1.56	-1.53	.36	2.59	-.82	.63	2.71	.15	1.47	2.15	-.69	.87
27	2.41	-.26	.94	1.05	-1.67	-.21	2.10	-.62	.92	2.51	-.70	1.06
28	2.78	-.63	1.24	1.42	-1.02	.25	2.06	-.61	.81	2.91	-.53	1.24
29	.99	-1.61	-.34	2.28	-.50	1.09	2.69	-.86	.80	3.23	-.45	1.43
30	---	---	---	2.38	-.55	1.08	3.59	-.28	1.50	3.05	-1.21	1.08
31	---	---	---	2.60	-.65	1.01	---	---	---	3.11	-1.23	1.00
MONTH	---	---	---	5.01	---	---	---	---	---	3.63	-1.23	---

HUDSON RIVER BASIN

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01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	3.04	-1.16	.91	3.44	-.98	1.16	3.64	-.63	1.46	2.86	-.85	1.08
2	3.10	-1.19	.89	3.49	-.92	1.19	3.49	-.63	1.39	3.57	-.09	1.71
3	3.24	-.95	.95	3.51	-.59	1.44	3.32	-.66	1.28	2.99	-.80	1.28
4	3.36	-.68	1.25	3.71	-.63	1.39	2.96	-.81	1.14	2.78	-.28	1.35
5	3.25	-.90	1.03	3.15	-.81	1.11	2.57	-.92	.98	2.77	-.20	1.40
6	2.96	-.92	.92	2.78	-.81	1.14	2.50	-1.03	.90	2.82	-.16	1.36
7	2.77	-.90	1.04	2.69	-1.00	1.07	2.61	-.84	.95	3.26	.42	1.81
8	2.77	-.85	1.14	3.06	-.67	1.35	2.53	-.83	.89	3.29	.28	1.75
9	2.70	-.87	1.09	2.91	-.76	1.32	2.49	-.66	.88	3.10	-.05	1.55
10	2.82	-.84	1.14	2.42	---	---	2.46	-.84	.76	2.90	-.29	1.35
11	2.83	-.94	1.05	2.43	-1.19	.57	2.78	-.90	.74	2.98	-.50	1.20
12	3.08	-.83	1.11	2.54	-1.24	.60	2.93	-.71	.97	3.64	-.23	1.70
13	3.15	-.65	1.20	3.10	-.70	1.57	3.38	-.52	1.33	3.68	.33	2.03
14	2.91	-.83	1.05	3.27	-.49	1.28	3.06	-.63	1.18	3.51	-.11	1.65
15	2.93	-.79	.98	3.35	-.27	1.37	2.91	-.59	1.08	3.37	-.21	1.67
16	3.04	-.75	.95	3.18	-.43	1.29	2.91	-.57	1.17	2.91	-.60	1.32
17	3.02	-.71	1.01	2.86	-.71	.98	2.88	-.54	1.15	4.05	.50	2.21
18	2.97	-.65	1.03	2.69	-.67	.93	2.67	-.68	.97	3.43	-.26	1.47
19	3.07	-.30	1.31	2.80	-.37	1.28	---	---	---	3.36	-.06	1.65
20	2.93	-.47	1.22	2.39	-1.27	.51	---	---	---	3.12	-.12	1.54
21	3.04	-.14	1.32	2.05	-1.21	.54	---	---	---	3.10	-.36	1.37
22	2.94	-.16	1.60	2.31	-.70	.99	---	---	---	3.45	-.29	1.57
23	2.88	-.79	1.18	2.56	-.51	1.14	3.01	-.72	---	3.41	-.20	1.66
24	2.81	-.28	1.41	2.88	-.55	1.25	2.81	-.92	1.02	3.83	-.17	1.89
25	2.68	-.63	1.13	3.19	-.60	1.36	3.15	-.90	1.12	3.25	-.62	1.48
26	2.43	-1.02	.77	3.59	-.60	1.40	3.07	-1.07	1.12	3.20	-.72	1.28
27	2.69	-1.16	.76	3.13	-1.03	1.13	3.19	-.96	1.12	3.21	-.71	1.24
28	2.89	-1.39	.73	3.20	-1.33	.91	3.33	-.85	1.25	3.60	-.50	1.64
29	3.22	-1.10	1.07	3.34	-1.19	1.01	3.06	-.92	1.17	3.60	-.60	1.29
30	3.45	-.78	1.30	3.60	-.83	1.28	3.03	-.94	1.06	2.82	-.85	.93
31	---	---	---	3.63	-.62	1.45	3.03	-.87	1.07	---	---	---
MONTH	3.45	-1.39	1.08	3.71	---	---	---	---	---	4.05	-.85	1.51

HUDSON RIVER BASIN

01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1991 to current year. Records for February 1990 to September 1991 are unpublished and available in files of the Geological Survey.

WATER TEMPERATURES: October 1991 to current year. Records for February 1990 to September 1991 are unpublished and available in files of the Geological Survey.

INSTRUMENTATION.--Water-quality monitor provides 15-minute-interval readings.

REMARKS.--Telephone temperature and specific conductance telemeter at station. Interruptions of record were due to malfunction of recording instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 12,600 $\mu\text{S}/\text{cm}$, Sept. 23, 1995; minimum, 102 $\mu\text{S}/\text{cm}$, May 30, 1996.

WATER TEMPERATURES: Maximum, 28.0°C, July 31, Aug. 3, 4, 5, 6, 7, 18, 1995; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Water year 1992: Maximum, 7,260 $\mu\text{S}/\text{cm}$, Nov. 20; minimum, 150 $\mu\text{S}/\text{cm}$, July 23.

Water year 1993: Maximum, 9,220 $\mu\text{S}/\text{cm}$, July 19, 20; minimum, 150 $\mu\text{S}/\text{cm}$, on several days during Nov. to Jan., Mar. to May.

Water year 1994: Maximum, 6,020 $\mu\text{S}/\text{cm}$, Oct. 31; minimum, 151 $\mu\text{S}/\text{cm}$, Dec. 9, 14, May 17.

Water year 1996: Maximum, 9,930 $\mu\text{S}/\text{cm}$, Oct. 1; minimum, 102 $\mu\text{S}/\text{cm}$, May 30.

WATER TEMPERATURES: Water year 1992: Maximum, 25.5°C, Aug. 11; minimum, 0.0°C, Jan. 19, 22.

Water year 1993: Maximum, 26.5°C on several days during July to Sept.; minimum, 0.0°C on many days during winter period.

Water year 1994: Maximum, 27.5°C, Aug. 3, 4; minimum, 0.0°C on many days during winter period.

Water year 1996: Maximum, 25.5°C on several days during Aug. and Sept.; minimum, 0.0°C on many days during winter period.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	5500	2780	2830	5330	1720	3300	263	254	257	689	238	311
2	4950	2600	3640	6710	2500	4170	262	252	255	1660	250	638
3	4490	2430	3490	4870	2140	3590	269	252	256	1820	321	864
4	4300	2250	3250	5060	2240	3650	256	246	251	3120	626	1590
5	4470	2400	3220	5170	2570	3810	256	249	251	2580	580	1330
6	4390	2120	3090	5490	2620	3920	258	246	250	2890	531	1270
7	3490	1670	2240	4940	2450	3650	258	245	249	2060	476	1130
8	2580	1450	1840	4120	2230	3190	252	242	246	2030	486	1150
9	2630	1350	1720	4780	2320	3320	250	237	245	2600	946	1850
10	2160	1250	1570	4910	2850	3750	246	233	238	2430	691	1660
11	1900	1130	1400	4640	2720	3640	237	231	235	1760	691	1240
12	1710	1010	1270	4340	1770	2870	233	229	232	1520	627	1060
13	1460	894	1100	4420	2050	2970	232	229	231	2010	667	1240
14	1300	812	973	5070	1950	3150	232	229	230	2950	744	1820
15	2070	795	1130	7180	2310	4150	231	223	225	1900	237	526
16	1180	653	899	5670	2430	3840	225	222	223	1760	276	715
17	2470	571	975	5530	2550	4290	226	222	223	1030	262	499
18	2800	666	1220	6950	3590	5510	226	222	223	607	251	346
19	3740	943	2050	7030	4160	5490	224	221	222	570	232	309
20	5090	1260	2990	7260	4140	5560	227	222	224	871	262	401
21	5950	2590	4010	6710	3660	5120	287	224	230	722	276	385
22	5760	2620	4110	6210	3240	4640	256	224	229	471	283	342
23	5330	2260	3760	5160	1620	3580	348	226	244	643	285	399
24	4890	2280	3560	2450	514	1530	258	228	235	659	230	375
25	4530	2060	3230	623	271	392	252	228	232	236	229	231
26	4260	1920	2940	300	260	276	250	230	234	267	229	237
27	4070	1910	2850	286	258	270	240	232	235	252	230	234
28	2900	1520	2180	285	264	268	242	233	236	234	229	231
29	4370	1550	2790	269	257	262	243	235	237	238	230	232
30	3500	2170	2610	264	254	258	245	237	238	312	232	237
31	3800	2980	3280	---	---	---	251	237	239	1060	233	418
MONTH	5950	571	2460	7260	254	3150	348	221	237	3120	229	751

HUDSON RIVER BASIN

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01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	1130	246	544	3570	892	2040	262	249	255	212	202	207
2	2600	363	1090	3150	1170	2180	259	236	246	246	207	212
3	3250	1120	2140	3360	1770	2650	247	227	235	225	211	214
4	4620	1590	2940	3200	1490	2330	244	225	231	215	198	207
5	3820	1300	2400	3030	1290	2180	291	221	232	205	187	197
6	3890	1720	2840	2500	1100	1770	262	219	226	197	175	186
7	4080	2420	3310	2840	1190	1940	295	221	234	182	171	176
8	4310	2300	3340	2480	841	1530	296	215	233	179	168	171
9	3410	1220	2210	1770	701	1090	251	214	224	171	167	169
10	2730	957	1630	1670	594	940	233	213	218	169	166	168
11	3360	1490	2490	1710	267	773	220	210	214	171	167	169
12	2360	934	1830	268	244	257	216	211	213	173	168	170
13	3190	1700	2580	250	244	246	218	212	214	174	170	172
14	3940	2270	3000	253	246	249	227	214	220	177	171	174
15	4470	1890	3270	259	249	254	234	216	227	179	171	175
16	5020	2480	3540	265	255	259	236	222	231	179	174	177
17	3750	1650	2660	267	258	262	236	228	234	182	176	179
18	3640	1660	2530	268	262	266	238	232	236	186	180	182
19	3580	1600	2440	270	263	267	236	221	229	190	180	186
20	2940	1050	1850	270	264	268	228	215	220	191	181	188
21	1870	777	1290	271	266	269	217	215	216	194	185	190
22	1340	667	930	271	268	270	220	216	217	194	188	192
23	1250	487	763	272	269	270	227	218	223	195	190	192
24	1120	487	676	273	270	271	230	225	228	193	190	191
25	1270	477	717	276	271	272	229	226	228	1880	191	461
26	987	399	576	274	271	272	226	216	222	2940	448	1120
27	1030	322	544	287	270	272	216	199	206	3750	913	1950
28	2100	312	996	273	263	267	205	199	200	5650	1070	2730
29	2700	460	1260	270	263	264	201	199	200	5950	1460	3390
30	---	---	---	265	262	263	205	199	202	6850	2770	4300
31	---	---	---	264	253	259	---	---	---	6580	3470	4820
MONTH	5020	246	1940	3570	244	797	296	199	224	6850	166	749

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	6170	1290	3400	---	---	---	2170	506	1010	1890	841	1280
2	3620	515	1650	---	---	---	1150	447	750	2030	841	1270
3	1790	297	751	4220	1690	2660	1090	447	657	2220	845	1330
4	794	227	394	4100	1660	2710	991	406	618	2000	894	1220
5	447	220	290	3610	1760	2630	707	269	492	1900	868	1180
6	414	191	253	3240	1630	2340	636	267	457	1770	811	1090
7	200	187	191	2940	1230	1920	703	265	440	1760	707	1070
8	190	186	188	2730	1060	1740	903	209	422	2630	638	1320
9	192	188	189	2690	1080	1830	776	342	451	---	---	---
10	194	189	191	2620	901	1550	629	255	438	---	---	---
11	192	189	190	2490	890	1420	753	321	422	3390	1250	2250
12	194	190	192	2720	828	1450	670	264	383	2910	1190	2040
13	194	191	192	2530	943	1480	1170	234	422	2970	1180	2020
14	196	191	193	2610	895	1490	1520	257	732	2810	1160	2010
15	197	193	195	2610	825	1420	1470	311	675	2790	1220	1910
16	198	193	195	2400	739	1120	1320	199	581	2710	1070	1800
17	199	195	197	1270	505	772	929	186	495	2670	1150	1800
18	198	195	197	930	338	634	1510	284	734	3050	1200	1810
19	200	197	197	718	269	511	1620	324	956	2220	1120	1650
20	200	197	199	876	359	460	1900	342	980	2980	1010	1730
21	201	198	199	580	290	399	2080	463	1120	2950	1170	1840
22	201	199	199	531	166	355	2330	565	1220	3120	1260	2040
23	946	198	321	520	150	317	3100	863	1640	2820	845	1410
24	2580	217	803	747	162	332	3260	999	1930	2470	734	1460
25	2480	486	1250	1680	189	518	3090	928	1840	2830	901	1580
26	3380	547	1540	2820	253	862	3210	1100	1970	2470	777	1470
27	3910	782	1970	3200	466	1380	3310	1250	2060	1810	606	1160
28	4730	1110	2410	2980	568	1290	3270	1360	2140	1640	552	1020
29	---	---	---	2420	593	1320	4020	1320	2220	1100	527	819
30	---	---	---	2700	582	1260	2500	1180	1690	1100	467	669
31	---	---	---	2330	676	1300	2070	1020	1520	---	---	---
MONTH	---	---	---	---	---	---	4020	186	1010	---	---	---

HUDSON RIVER BASIN

01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	1080	516	690	525	201	415	514	156	302	479	168	290
2	1640	510	880	493	262	390	390	150	250	386	150	249
3	1320	600	787	862	355	554	411	187	274	333	162	213
4	1540	564	844	1370	458	886	394	156	252	473	156	316
5	1550	563	951	1920	616	1110	383	162	250	484	241	365
6	1580	482	1070	2620	751	1570	446	150	248	351	174	281
7	2420	770	1470	3390	876	1860	421	156	270	443	168	281
8	3830	1350	2490	3560	985	2140	667	150	286	338	181	269
9	5610	2680	4010	3550	1070	2270	711	---	---	263	150	205
10	5860	2600	4270	3720	1190	2430	617	150	253	275	---	---
11	4750	2510	3680	3390	1130	2300	2180	389	983	332	---	---
12	4390	2300	3350	2620	848	1740	828	254	463	240	150	200
13	3840	1800	2920	3250	526	1810	2120	211	695	321	193	225
14	3600	1650	2570	1060	358	676	2270	412	1270	460	168	222
15	3630	1510	2440	769	315	468	1270	162	735	480	193	237
16	3140	1520	2250	549	150	353	842	199	409	328	160	229
17	2370	1120	1730	406	217	321	504	217	330	594	154	256
18	2730	988	1620	423	150	294	440	217	307	396	160	253
19	1880	1100	1470	398	150	300	399	150	235	363	---	---
20	1870	783	1330	486	187	308	399	199	263	431	154	267
21	1650	794	1050	674	156	316	434	150	247	431	166	247
22	1270	539	824	432	322	363	440	156	255	409	178	269
23	1310	414	810	727	333	429	312	156	215	472	226	302
24	1260	596	806	494	254	334	340	---	---	460	191	302
25	892	461	635	451	235	323	398	---	---	467	197	293
26	897	411	592	388	266	334	439	150	214	415	154	257
27	711	435	554	607	187	357	416	---	---	490	154	283
28	878	257	538	386	187	291	282	150	191	410	154	251
29	747	378	515	382	156	267	323	168	229	387	166	271
30	666	357	498	429	156	285	415	174	258	365	---	---
31	600	341	434	---	---	---	438	187	271	261	154	203
MONTH	5860	257	1550	3720	150	850	2270	---	---	594	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	256	---	---	1560	337	817	276	---	---	579	181	314
2	958	---	---	2350	529	1020	249	---	---	484	172	308
3	2430	434	1010	3540	627	1920	189	---	---	388	179	282
4	2110	487	1230	5470	1180	3030	226	---	---	373	157	252
5	3890	620	2150	5860	2680	4220	304	---	---	358	161	232
6	2960	678	1620	5330	2680	4110	336	---	---	488	168	290
7	3340	711	1880	5260	3080	4130	496	---	---	436	155	277
8	2750	851	1820	5250	2660	3940	481	---	---	433	152	272
9	2360	852	1410	4950	2240	3550	393	155	218	447	155	301
10	2200	767	1390	4060	2050	3180	279	150	214	426	157	311
11	1530	483	955	4390	1380	2880	362	162	246	562	166	330
12	1810	431	1220	2950	1160	2070	311	150	200	449	199	354
13	2010	490	1080	3080	1190	2350	344	---	---	367	152	262
14	969	385	576	3570	221	1840	428	152	269	460	150	259
15	1230	203	647	1310	209	672	359	157	236	348	153	252
16	1570	309	872	1960	746	1440	325	189	243	373	155	252
17	1540	309	814	1860	690	1340	354	156	239	454	152	264
18	1800	238	813	1340	282	589	342	153	222	898	---	---
19	1460	227	823	1490	458	968	394	---	---	1460	200	699
20	2200	398	1170	1510	409	908	506	160	279	1810	361	1060
21	2040	469	1270	1330	275	817	422	163	297	2440	435	1060
22	2340	895	1660	1230	231	623	341	160	208	2170	413	1010
23	2190	543	1290	800	203	460	282	151	200	2090	440	1050
24	960	252	610	894	185	420	578	156	274	2380	506	1120
25	757	206	412	573	174	310	436	178	293	1960	506	1120
26	1100	307	597	416	---	---	371	160	233	1440	399	836
27	1000	289	602	386	---	---	422	---	---	1360	371	727
28	1110	372	693	260	157	190	518	---	---	1310	353	780
29	---	---	---	370	153	197	465	158	302	1090	435	658
30	---	---	---	346	151	190	472	161	298	988	306	588
31	---	---	---	366	150	238	---	---	---	1660	298	644
MONTH	3890	---	---	5860	---	---	578	---	---	2440	---	---

HUDSON RIVER BASIN

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01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	1610	413	659	2190	862	1250	6640	4070	5230	5690	3440	4540
2	1160	326	570	2270	829	1270	6810	4330	5470	5450	3620	4520
3	1120	317	563	2420	924	1330	6480	4000	5250	5640	3570	4610
4	1080	291	532	2280	864	1350	6120	3890	5050	4910	2980	3930
5	1030	228	479	2190	905	1370	5680	3810	4810	4780	2920	3850
6	988	238	457	2590	957	1580	5670	3830	4770	4900	2980	3840
7	846	218	457	2440	860	1580	5740	3880	4990	4450	2750	3610
8	685	211	452	2290	913	1550	5320	3580	4610	4640	2810	3660
9	863	313	460	2190	984	1640	5510	3470	4540	6230	3100	4140
10	609	306	439	2490	960	1710	5900	3840	4760	5450	3350	4380
11	526	272	386	3160	1060	1870	6260	3460	4880	6340	3000	4000
12	1070	228	471	3580	1390	2210	6740	4170	5170	6480	3500	4710
13	1660	295	728	4470	1470	2600	7570	3580	5310	6620	3850	5260
14	2930	465	1090	5950	2010	3360	7880	3640	5440	6690	3670	5140
15	2900	768	1530	6200	2520	3930	7470	3990	5570	6260	3210	4900
16	3380	711	1690	7220	3360	4700	8130	4450	6220	5730	3030	4290
17	3360	1060	1930	7880	4240	5550	7970	5030	6700	6270	3250	4760
18	3980	1310	2350	9100	4880	6560	8080	4950	6430	6050	3340	4510
19	4420	1440	2560	9220	5970	7370	7860	4890	6380	5220	3110	4050
20	4230	1780	2780	9220	5500	7150	7500	4720	6150	5390	3000	3820
21	4800	1870	3010	8440	4730	6590	6750	4210	5580	5180	2880	3770
22	4310	1550	2730	8040	4750	6350	7250	4310	5570	5000	2830	3630
23	3010	1240	1990	7330	4810	6130	6750	4180	5390	5350	2810	3820
24	2730	1130	1950	7530	4590	6070	6850	4000	5270	4820	2570	3540
25	2700	1130	1950	7460	4570	5950	5890	3720	4930	5680	2690	3720
26	2610	1140	1780	7600	4870	6190	5690	3380	4490	5210	3240	4240
27	2180	993	1480	7320	4800	6150	5800	3660	4530	5020	2940	3900
28	2270	905	1530	7500	4420	5700	5800	3780	4680	4640	2230	3450
29	2250	948	1350	7360	4430	5660	6080	3510	4580	4110	1980	3150
30	2110	859	1290	7140	4370	5480	5900	3600	4650	4190	2060	3060
31	---	---	---	6800	4000	5340	5950	3730	4760	---	---	---
MONTH	4800	211	1320	9220	829	4050	8130	3380	5230	6690	1980	4090

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	4730	2140	3210	5120	709	2180	223	201	212	261	187	205
2	4500	2360	3340	2120	489	852	219	204	211	284	195	221
3	3630	1750	2750	---	---	---	223	206	215	264	191	210
4	4040	1830	2670	1840	642	1110	216	206	211	442	205	298
5	2970	1440	2060	2070	649	1120	216	199	212	220	196	204
6	3120	1440	2150	1190	438	806	226	194	206	201	186	194
7	2970	1420	2000	588	316	429	204	177	197	854	191	214
8	2750	1380	1960	448	274	345	199	182	190	750	203	304
9	3850	1330	2490	370	262	298	200	151	181	232	193	207
10	2550	1260	1770	379	250	291	193	180	185	209	187	199
11	3270	1070	2000	446	256	309	190	176	184	344	189	223
12	3210	1430	2240	432	261	305	190	178	184	448	209	270
13	3380	1130	2090	502	249	298	193	180	186	639	233	341
14	5500	1580	3160	476	266	321	193	151	181	698	253	383
15	6000	1510	3390	439	268	304	195	178	187	317	225	273
16	5440	1420	3080	354	256	283	195	180	188	230	195	214
17	6000	1390	3220	395	256	288	196	181	189	379	201	255
18	5220	1260	2860	280	239	263	199	184	189	544	207	296
19	4600	1190	2380	263	236	249	194	179	188	224	197	208
20	4290	1140	1900	256	221	238	194	177	187	225	196	211
21	4440	1290	2580	236	219	227	191	179	185	241	198	217
22	2350	639	1350	236	219	228	189	174	182	224	202	213
23	2240	561	1050	240	220	228	189	172	181	249	208	217
24	2630	523	1240	237	220	227	184	172	180	348	215	253
25	2310	451	811	232	215	223	190	178	183	440	219	279
26	1710	465	1050	386	215	234	190	178	184	953	232	488
27	1910	783	1360	1600	218	700	192	173	184	1020	290	687
28	2260	783	1270	4140	269	1700	236	178	189	2170	790	1420
29	2430	605	1280	1210	220	345	400	175	219	2310	627	1550
30	4050	968	1730	227	206	216	317	190	220	1550	415	896
31	6020	1360	2360	---	---	---	305	182	210	1420	449	963
MONTH	6020	451	2150	---	---	---	400	151	194	2310	186	391

HUDSON RIVER BASIN

01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	1160	317	740	302	285	293	241	237	238	165	160	162
2	653	287	454	301	284	294	239	235	237	170	164	165
3	535	264	353	340	288	305	236	225	230	169	166	166
4	293	252	269	318	288	302	228	220	222	169	166	167
5	292	259	273	310	297	301	225	218	220	170	167	169
6	293	262	274	307	288	297	226	218	220	175	168	171
7	288	258	270	308	287	298	223	220	222	174	171	173
8	269	257	262	300	288	293	223	218	220	175	172	173
9	279	257	264	294	280	287	222	218	220	176	170	172
10	270	251	262	300	281	289	222	214	217	173	166	169
11	264	252	259	288	269	278	216	204	210	171	165	167
12	274	259	265	284	264	272	208	197	202	171	159	165
13	276	260	268	278	262	270	201	196	198	164	155	158
14	271	256	263	286	264	275	203	191	197	161	154	156
15	268	251	260	297	270	283	194	183	189	158	153	155
16	271	257	264	303	277	293	189	184	186	157	152	154
17	274	256	264	308	290	299	189	179	185	154	151	152
18	278	258	265	304	288	295	185	175	177	155	152	153
19	275	259	266	300	286	293	182	171	175	157	154	155
20	281	260	268	302	284	292	173	164	169	187	156	159
21	502	264	346	298	277	290	168	161	165	205	158	162
22	658	275	390	297	282	289	166	162	163	247	161	164
23	1050	263	592	295	278	286	166	162	163	247	162	168
24	1520	330	751	295	281	286	167	160	163	243	165	172
25	521	267	300	289	271	281	167	161	162	287	168	180
26	284	270	277	280	261	275	166	159	162	264	169	180
27	294	270	284	276	264	270	162	156	159	233	171	179
28	296	283	290	272	260	267	159	156	157	226	173	179
29	---	---	---	265	256	260	160	156	158	188	175	177
30	---	---	---	268	252	260	162	158	160	185	175	178
31	---	---	---	264	212	240	---	---	---	185	176	178
MONTH	1520	251	332	340	212	284	241	156	192	287	151	167
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	183	178	179	242	207	225	419	291	314	237	212	217
2	182	179	180	225	204	210	916	286	361	808	210	269
3	184	181	183	214	203	206	1720	317	572	2360	217	526
4	187	182	183	220	204	206	2460	347	901	2660	298	1150
5	190	183	184	224	205	207	2250	446	1080	3720	618	1610
6	191	184	185	343	206	217	2550	306	1040	3720	774	1890
7	266	184	190	894	209	287	3100	639	1510	2830	724	1560
8	853	187	208	1230	198	423	3200	801	1840	2460	769	1480
9	876	192	340	1450	215	654	3220	1020	1950	2560	819	1500
10	1320	197	485	1880	281	872	2740	901	1610	2200	802	1340
11	1500	246	694	1620	305	740	2330	790	1430	1930	718	1110
12	1740	361	802	1700	396	857	2430	796	1430	1880	644	1000
13	1360	341	685	1410	420	870	2400	945	1510	2030	671	1050
14	1230	391	582	1300	413	798	2120	703	1310	2010	717	1120
15	---	---	---	1300	459	847	1820	760	1060	2130	708	1140
16	---	---	---	1160	469	748	1810	---	1000	2020	770	1200
17	557	243	324	1400	432	689	1800	656	955	1840	745	1140
18	506	237	309	1460	467	725	1800	620	918	1710	614	919
19	484	228	290	1420	454	702	1250	340	549	1540	665	975
20	682	229	311	1390	410	652	643	310	402	1320	619	880
21	700	258	360	1310	430	657	560	274	351	1300	606	842
22	741	251	348	1410	437	707	418	235	282	1570	599	929
23	720	264	362	1230	408	596	301	227	250	1950	730	1260
24	762	283	390	978	409	562	254	220	233	1160	604	825
25	842	298	436	948	407	552	238	216	226	1610	591	908
26	707	301	405	818	418	551	228	211	221	2550	625	1290
27	584	296	394	663	376	471	228	214	219	3200	1100	1770
28	502	281	357	581	355	440	226	211	218	2340	705	1360
29	378	261	300	459	328	371	221	211	216	2010	777	1230
30	294	242	264	426	318	353	221	211	216	2330	551	1180
31	---	---	---	401	296	323	227	212	217	---	---	---
MONTH	---	---	---	1880	198	539	3220	---	787	3720	210	1120

HUDSON RIVER BASIN

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01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	9930	6930	8690	246	235	239	173	170	172	2020	840	1360
2	9720	7480	8600	250	237	239	175	171	173	1960	883	1300
3	9870	7330	8470	253	235	238	174	172	173	2360	907	1500
4	9580	7490	8670	243	237	239	178	172	174	2750	1190	1910
5	9410	7170	8290	243	234	240	177	174	176	3450	1250	2150
6	9280	6450	8060	242	236	239	177	175	176	2780	693	1600
7	8800	6090	7550	241	236	239	179	175	176	4330	2240	3220
8	7960	5410	6690	242	227	235	179	176	177	5360	4280	4800
9	6760	5050	5900	233	215	225	179	176	177	4920	3690	4350
10	6730	4850	5720	233	214	221	180	177	178	4690	2670	3960
11	6420	4590	5510	227	209	217	180	177	179	4010	2030	2940
12	5900	4260	5100	227	174	199	180	178	179	4620	2920	3840
13	5780	4150	4970	177	171	173	179	178	178	4390	2680	3580
14	5990	4390	5200	176	173	174	180	178	179	4020	2030	3080
15	5320	3730	4580	184	173	176	182	178	180	3570	1960	2650
16	4180	3180	3720	179	169	174	1160	150	491	3570	1390	2420
17	4150	2840	3370	172	162	166	1660	358	853	3730	2210	2910
18	4480	3130	3930	163	158	161	2760	413	1390	3340	1960	2680
19	4410	2720	3620	169	160	161	3850	909	2460	4700	2010	3190
20	4760	2740	3680	167	161	164	5050	2340	3440	2830	189	587
21	5450	3210	4140	174	163	167	4500	1620	2840	201	171	191
22	3870	911	1940	180	169	172	3300	885	2070	189	159	176
23	1210	381	587	176	171	174	4370	1640	2930	200	159	178
24	463	313	359	179	174	176	3750	1680	2690	206	170	191
25	---	281	---	179	175	176	3390	1460	2360	200	164	182
26	314	276	288	178	173	175	2830	1210	1980	237	145	191
27	325	274	287	177	172	174	2050	1040	1540	231	194	213
28	306	264	282	174	168	172	2300	1060	1690	206	164	191
29	271	245	259	174	168	170	1920	952	1390	194	164	179
30	251	239	245	172	169	170	1810	829	1300	200	164	183
31	246	237	241	---	---	---	1770	822	1310	188	163	178
MONTH	---	237	---	253	158	195	5050	150	1080	5360	145	1810
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	199	163	181	221	184	201	2350	587	1220	166	155	158
2	187	163	178	220	184	200	2640	575	1370	157	146	150
3	187	157	172	226	177	198	3030	740	1740	149	146	147
4	181	151	173	208	159	188	2220	410	1190	148	143	146
5	193	144	175	226	177	194	2040	447	1080	147	142	144
6	199	163	182	---	---	---	1710	404	815	151	144	146
7	199	169	186	284	218	237	1410	421	752	155	146	149
8	---	---	---	252	217	231	1120	317	560	158	150	154
9	---	---	---	246	204	228	---	282	---	164	154	157
10	211	174	193	264	210	229	412	249	292	164	156	159
11	204	180	192	251	209	231	262	245	252	166	159	161
12	204	180	190	257	209	231	---	243	---	165	155	159
13	204	168	185	251	216	235	259	240	245	158	153	155
14	204	168	188	263	222	239	258	237	242	163	154	159
15	211	174	191	244	221	235	240	231	235	164	160	161
16	197	161	186	244	221	231	239	230	234	163	159	161
17	210	179	194	244	202	227	234	220	227	170	157	163
18	216	173	192	244	189	228	224	212	218	171	163	168
19	210	173	188	238	189	222	217	209	212	178	167	172
20	216	179	196	238	214	224	213	206	210	177	173	175
21	210	185	199	232	195	219	215	203	207	---	---	---
22	216	167	198	243	206	219	209	204	206	189	179	184
23	216	161	199	237	194	218	207	200	204	184	173	180
24	215	184	200	255	206	227	203	190	195	179	173	176
25	221	184	205	244	239	241	192	178	185	181	171	175
26	221	190	203	249	241	243	179	163	171	178	171	173
27	221	184	200	253	240	245	165	160	163	471	170	193
28	221	184	205	250	243	247	168	161	166	1280	---	181
29	233	184	210	253	245	248	169	165	167	1330	---	469
30	---	---	---	413	247	263	173	162	166	1700	102	611
31	---	---	---	1570	272	591	---	---	---	2080	138	807
MONTH	---	---	---	---	---	---	---	160	---	---	---	---

HUDSON RIVER BASIN

01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	2000	219	719	2640	659	1290	670	230	330	1020	428	653
2	1880	256	724	2240	684	1230	497	232	293	1430	459	804
3	1670	250	643	2280	745	1220	401	230	269	1180	434	669
4	1460	275	594	1920	665	1110	411	225	256	885	416	584
5	952	201	414	1300	507	784	325	222	244	1460	416	706
6	653	284	391	886	454	637	299	221	238	2240	398	1010
7	545	275	366	740	398	514	308	221	238	2880	855	1620
8	442	254	318	737	393	490	324	223	238	3650	1430	2120
9	304	215	251	703	353	437	272	222	234	3650	1140	2260
10	244	195	212	507	309	372	261	219	227	3710	1400	2440
11	215	189	194	509	280	332	269	220	228	4020	1750	2760
12	199	187	189	505	281	323	292	221	234	5050	2450	3730
13	199	186	188	544	288	342	455	224	249	5340	3070	4220
14	194	184	187	293	213	229	855	226	327	5200	2560	3890
15	190	186	187	222	209	212	978	174	368	5340	2640	3870
16	190	187	188	211	205	208	1200	194	573	4630	2130	3300
17	190	187	189	209	205	206	1420	262	649	4990	2560	3690
18	191	188	189	208	204	206	1100	250	544	3800	1680	2680
19	192	190	191	209	205	206	---	---	---	2860	1310	1960
20	194	190	192	208	204	205	---	---	---	2180	983	1480
21	195	190	192	207	203	205	---	---	---	1820	709	1140
22	197	192	194	207	202	204	---	---	---	1820	649	1030
23	201	194	197	205	202	203	---	---	---	1390	619	888
24	981	198	310	218	200	203	1090	300	529	1440	533	823
25	833	210	424	940	197	279	1400	325	550	1440	443	667
26	1500	134	536	974	201	321	1400	325	586	961	460	587
27	2340	153	815	951	200	253	1400	349	598	973	448	607
28	2140	260	939	544	199	235	1580	367	695	995	458	640
29	2490	556	1300	606	202	251	1410	392	678	833	458	520
30	2620	708	1400	691	211	296	1150	367	607	464	296	355
31	---	---	---	737	221	338	1070	398	656	---	---	---
MONTH	2620	134	428	2640	197	430	---	---	---	5340	296	1720

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	21.5	20.5	21.0	14.5	14.0	14.5	7.5	7.5	7.5	2.5	2.5	2.5
2	21.0	20.5	20.5	14.5	14.0	14.5	7.5	7.5	7.5	3.0	2.5	2.5
3	21.0	20.5	20.5	14.5	14.0	14.0	8.0	7.5	7.5	3.0	2.5	2.5
4	21.0	20.0	20.5	14.0	13.5	14.0	7.5	7.0	7.5	3.5	2.5	3.0
5	21.0	20.5	20.5	14.0	13.0	13.5	7.0	6.5	7.0	3.5	2.5	3.0
6	21.0	20.0	20.5	13.5	13.0	13.5	7.0	6.5	6.5	3.5	2.5	3.0
7	20.5	19.5	20.0	13.5	12.5	13.0	7.0	6.5	6.5	3.0	2.5	3.0
8	20.0	19.5	19.5	13.0	12.0	12.5	6.5	6.0	6.5	3.0	2.5	2.5
9	19.5	19.0	19.5	12.5	12.0	12.0	6.5	6.0	6.5	3.0	2.0	2.5
10	19.5	19.0	19.0	12.0	11.5	12.0	6.5	6.0	6.5	3.0	2.0	2.5
11	19.0	18.5	19.0	11.5	11.0	11.5	6.5	6.5	6.5	2.5	1.5	2.0
12	19.0	18.0	18.5	11.0	10.5	11.0	6.5	6.5	6.5	2.0	1.5	2.0
13	18.5	18.0	18.0	11.0	10.5	10.5	6.5	6.5	6.5	2.5	1.5	2.0
14	18.0	17.5	18.0	10.5	10.0	10.5	6.5	6.5	6.5	2.5	1.5	2.5
15	18.5	17.5	18.0	11.0	10.5	10.5	6.5	6.0	6.0	2.5	1.0	1.5
16	18.0	17.0	17.5	10.5	10.0	10.5	6.0	5.0	5.5	2.0	1.0	1.5
17	17.0	16.5	17.0	10.5	10.0	10.0	5.5	5.0	5.5	1.5	.5	1.0
18	17.0	16.5	16.5	10.5	9.5	10.0	5.0	4.0	4.5	1.0	.5	.5
19	16.5	16.0	16.5	10.5	10.0	10.0	4.5	3.5	4.0	.5	.0	.5
20	16.5	15.5	16.0	10.5	10.0	10.0	4.0	3.5	3.5	1.0	.5	.5
21	16.5	15.5	16.0	10.5	10.5	10.5	4.0	3.0	3.5	.5	.5	.5
22	16.0	15.5	16.0	10.5	10.5	10.5	3.5	3.0	3.5	.5	.0	.5
23	16.0	15.5	16.0	10.5	10.0	10.5	4.0	3.0	3.5	.5	.5	.5
24	16.0	15.5	16.0	10.0	9.0	10.0	3.5	3.0	3.0	1.0	.5	.5
25	16.0	15.5	16.0	9.5	8.0	8.5	3.0	3.0	3.0	.5	.5	.5
26	16.0	15.5	16.0	8.0	7.5	8.0	3.0	3.0	3.0	.5	.5	.5
27	16.0	15.5	16.0	8.0	7.5	7.5	3.0	3.0	3.0	.5	.5	.5
28	16.0	15.5	15.5	7.5	7.0	7.5	3.0	3.0	3.0	.5	.5	.5
29	16.0	15.0	15.5	7.5	7.0	7.0	3.0	3.0	3.0	.5	.5	.5
30	---	---	---	7.5	7.0	7.5	3.0	2.5	3.0	.5	.5	.5
31	---	---	---	---	---	---	3.0	2.5	2.5	.5	.5	.5
MONTH	---	---	---	14.5	7.0	11.0	8.0	2.5	5.0	3.5	.0	1.5

HUDSON RIVER BASIN

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01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	1.0	.5	.5	2.0	1.5	2.0	4.5	3.5	4.0	11.0	10.0	10.5
2	1.0	.5	.5	2.0	1.5	2.0	4.0	4.0	4.0	11.5	10.5	11.0
3	1.0	.5	.5	2.5	1.5	2.0	4.5	4.0	4.0	12.5	11.0	12.0
4	1.0	.5	1.0	2.5	1.5	2.0	4.5	4.0	4.0	13.0	12.0	12.5
5	1.0	.5	1.0	2.5	2.0	2.0	4.5	4.0	4.0	13.0	12.5	12.5
6	1.0	.5	1.0	2.5	2.0	2.0	5.0	4.0	4.5	13.0	12.5	12.5
7	1.0	1.0	1.0	2.5	2.0	2.0	5.0	4.5	4.5	13.0	12.5	12.5
8	1.5	1.0	1.0	2.5	2.0	2.0	5.5	4.5	5.0	13.0	12.5	13.0
9	1.0	.5	.5	2.5	2.0	2.5	5.5	5.0	5.0	13.0	13.0	13.0
10	1.0	.5	.5	2.5	2.5	2.5	6.0	5.0	5.5	13.5	13.0	13.0
11	1.0	.5	.5	3.0	2.5	3.0	6.0	5.5	5.5	13.5	13.0	13.5
12	.5	.5	.5	3.0	2.0	2.5	6.5	5.5	6.0	14.0	13.5	13.5
13	1.0	.5	.5	2.5	1.5	2.0	6.5	6.0	6.5	14.5	13.5	14.0
14	1.0	.5	.5	2.0	1.5	1.5	7.0	6.5	6.5	15.0	14.0	14.5
15	1.0	.5	1.0	2.0	1.5	1.5	7.0	6.5	7.0	15.5	14.5	15.0
16	1.5	1.0	1.0	2.0	1.5	2.0	7.0	7.0	7.0	15.0	15.0	15.0
17	1.5	1.0	1.0	2.0	1.5	2.0	7.0	7.0	7.0	15.5	15.0	15.0
18	1.5	1.0	1.5	2.5	2.0	2.0	7.0	7.0	7.0	15.5	15.0	15.5
19	1.5	1.0	1.5	2.5	2.0	2.0	7.0	7.0	7.0	16.0	15.0	15.5
20	1.5	1.5	1.5	2.5	2.0	2.5	7.5	7.0	7.0	16.0	15.5	15.5
21	1.5	1.5	1.5	3.0	2.0	2.5	8.0	7.0	7.5	16.5	15.5	16.0
22	1.5	1.5	1.5	3.0	2.5	2.5	8.5	7.5	8.0	16.5	16.0	16.0
23	2.0	1.5	1.5	3.0	2.5	2.5	9.5	8.5	9.0	16.5	16.0	16.5
24	2.0	1.5	1.5	3.0	2.5	2.5	10.0	9.5	9.5	17.5	16.5	17.0
25	2.0	1.5	2.0	3.5	2.5	3.0	9.5	9.5	9.5	17.0	16.5	16.5
26	2.0	1.5	2.0	3.5	3.0	3.0	10.0	9.5	9.5	17.0	16.5	16.5
27	2.0	1.5	2.0	4.0	3.0	3.5	9.5	9.0	9.5	17.0	16.5	16.5
28	2.0	1.5	2.0	5.0	4.0	4.5	10.5	9.0	9.5	17.5	16.5	17.0
29	2.0	1.0	2.0	5.0	4.0	4.0	10.6	9.5	10.0	18.0	17.0	17.0
30	---	---	---	4.5	4.0	4.0	10.5	9.5	10.0	18.0	17.0	17.0
31	---	---	---	4.5	4.0	4.0	---	---	---	17.0	17.0	17.0
MONTH	2.0	.5	1.0	5.0	1.5	2.5	10.5	3.5	7.0	18.0	10.0	14.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	17.5	17.0	17.5	---	---	---	24.5	24.0	24.5	24.5	24.0	24.5
2	18.0	17.0	17.5	23.0	22.5	22.5	24.5	24.0	24.0	24.5	24.0	24.0
3	18.5	17.5	18.0	23.0	22.5	22.5	24.5	24.0	24.0	24.5	24.0	24.0
4	18.5	18.0	18.5	22.5	22.5	22.5	24.5	24.0	24.5	24.5	24.0	24.0
5	18.5	18.0	18.5	23.0	22.5	22.5	24.5	24.0	24.0	24.5	24.0	24.0
6	19.0	18.0	18.5	23.0	22.5	22.5	24.5	24.0	24.0	24.0	23.5	23.5
7	19.5	18.5	19.0	23.5	22.5	23.0	24.5	24.0	24.5	24.0	23.5	23.5
8	19.5	19.0	19.5	23.5	23.0	23.0	24.5	24.0	24.5	24.0	23.5	23.5
9	20.0	19.5	19.5	24.0	23.0	23.0	24.5	24.0	24.0	---	---	---
10	20.5	19.5	20.0	24.0	23.0	23.5	25.0	24.0	24.5	---	---	---
11	20.5	20.0	20.0	24.0	23.5	23.5	25.5	24.5	24.5	24.0	23.5	24.0
12	21.5	20.0	20.5	24.0	23.5	23.5	25.0	24.5	24.5	24.0	23.5	24.0
13	21.5	20.5	21.0	24.0	23.5	24.0	24.5	24.5	24.5	24.0	23.5	23.5
14	21.5	21.0	21.0	24.5	24.0	24.0	24.5	24.5	24.5	24.0	23.5	23.5
15	22.0	21.0	21.5	25.0	24.0	24.5	24.5	24.0	24.5	24.0	23.5	23.5
16	22.0	21.5	21.5	24.5	24.0	24.5	24.5	24.0	24.0	24.0	23.0	23.5
17	22.5	21.5	22.0	24.5	24.0	24.0	24.0	23.5	24.0	24.0	23.5	23.5
18	22.0	22.0	22.0	24.5	24.0	24.5	24.0	23.5	24.0	24.0	23.5	23.5
19	22.0	22.0	22.0	24.5	24.0	24.5	24.0	23.5	23.5	23.5	23.5	23.5
20	22.0	22.0	22.0	24.5	24.0	24.5	24.0	23.5	23.5	24.0	23.0	23.5
21	22.0	22.0	22.0	25.0	24.5	24.5	24.0	23.0	23.5	23.5	23.0	23.5
22	22.0	22.0	22.0	25.0	24.0	24.5	24.0	23.0	23.5	23.5	23.0	23.5
23	22.0	22.0	22.0	24.5	24.5	24.5	24.0	23.5	23.5	23.5	22.5	23.0
24	22.5	22.0	22.0	24.5	24.0	24.5	24.0	23.5	24.0	23.0	22.0	22.5
25	22.5	22.0	22.0	24.5	24.0	24.0	24.5	23.5	24.0	22.5	22.0	22.0
26	22.5	22.0	22.5	24.5	24.0	24.0	24.5	24.0	24.0	22.0	21.5	22.0
27	23.0	22.0	22.5	24.5	24.0	24.5	25.0	24.5	24.5	22.0	21.5	21.5
28	23.0	22.5	22.5	24.5	24.0	24.5	25.0	24.5	24.5	21.5	21.0	21.5
29	23.0	22.5	23.0	25.0	24.0	24.5	25.0	24.5	25.0	21.5	20.5	21.0
30	---	---	---	24.5	24.5	24.5	25.0	24.5	24.5	21.0	20.0	20.5
31	---	---	---	24.5	24.5	24.5	24.5	24.5	24.5	---	---	---
MONTH	---	---	---	---	---	---	25.5	23.0	24.0	---	---	---

HUDSON RIVER BASIN

01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	20.5	19.5	20.0	13.0	12.5	13.0	5.5	5.5	5.5	1.5	1.0	1.5
2	20.5	19.5	20.0	12.5	12.5	12.5	5.5	5.5	5.5	1.5	.5	1.0
3	20.0	19.5	19.5	12.5	12.0	12.5	5.5	5.5	5.5	1.0	.5	.5
4	20.0	19.5	19.5	12.5	12.0	12.0	5.5	5.0	5.5	1.0	.5	.5
5	19.5	19.0	19.0	12.0	11.5	12.0	5.5	5.0	5.0	1.0	.5	1.0
6	19.5	18.5	19.0	12.0	11.5	12.0	5.0	5.0	5.0	1.5	1.0	1.0
7	19.0	18.0	18.5	12.0	11.0	11.5	5.0	4.5	5.0	1.5	1.0	1.0
8	18.5	18.0	18.0	11.5	10.5	11.0	5.0	4.5	4.5	1.0	1.0	1.0
9	18.0	18.0	18.0	11.0	10.5	11.0	5.0	4.0	4.5	1.0	.5	1.0
10	18.5	18.0	18.0	11.0	10.5	10.5	4.5	4.0	4.0	.5	.5	.5
11	18.0	18.0	18.0	11.0	10.0	10.5	5.5	4.5	4.5	.5	.0	.5
12	18.5	18.0	18.0	10.5	10.0	10.5	4.5	3.5	4.0	.5	.0	.5
13	18.0	18.0	18.0	11.0	9.5	10.5	4.0	3.5	3.5	.5	.5	.5
14	18.0	17.5	17.5	10.0	9.5	9.5	4.0	3.5	3.5	.5	.5	.5
15	18.0	17.5	17.5	9.5	9.0	9.5	3.5	3.5	3.5	.5	.5	.5
16	18.0	17.5	17.5	9.0	8.5	9.0	4.0	3.5	3.5	1.0	.5	.5
17	17.5	17.0	17.5	8.5	8.0	8.5	4.0	3.5	4.0	1.0	.5	1.0
18	17.5	17.0	17.0	8.5	8.0	8.0	4.0	4.0	4.0	1.0	1.0	1.0
19	17.0	16.0	16.5	8.0	7.5	7.5	4.0	4.0	4.0	1.0	1.0	1.0
20	16.5	16.0	16.0	8.0	7.5	7.5	4.0	3.5	4.0	1.0	1.0	1.0
21	16.0	15.5	15.5	7.5	7.0	7.5	3.5	3.0	3.5	1.0	1.0	1.0
22	15.5	15.0	15.5	7.5	7.0	7.5	3.5	3.0	3.0	1.0	1.0	1.0
23	15.5	15.0	15.0	8.0	7.5	7.5	3.0	2.5	3.0	1.0	1.0	1.0
24	15.5	15.0	15.0	7.5	7.5	7.5	2.5	1.5	2.0	1.5	1.0	1.0
25	15.0	14.0	14.5	7.5	7.0	7.5	2.5	1.5	2.0	1.5	1.0	1.0
26	14.5	14.0	14.0	7.0	7.0	7.0	2.0	1.0	1.5	1.0	1.0	1.0
27	14.0	13.5	14.0	7.0	6.5	6.5	1.5	1.0	1.0	1.0	1.0	1.0
28	14.0	13.5	13.5	6.5	6.0	6.5	1.5	1.0	1.0	1.0	.5	1.0
29	14.0	13.5	13.5	6.0	6.0	6.0	1.0	1.0	1.0	1.0	.5	.5
30	13.5	13.0	13.5	6.0	5.5	6.0	1.0	1.0	1.0	.5	.5	.5
31	13.5	13.0	13.0	---	---	---	1.0	1.0	1.0	.5	.5	.5
MONTH	20.5	13.0	17.0	13.0	5.5	9.5	5.5	1.0	3.5	1.5	.0	1.0

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

HUDSON RIVER BASIN

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01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	18.0	17.5	17.5	24.0	23.5	23.5	26.0	25.5	25.5	26.5	26.0	26.0
2	18.5	17.5	17.5	24.0	23.5	23.5	26.0	25.5	26.0	26.5	26.0	26.0
3	18.5	17.5	18.0	24.0	23.5	23.5	26.0	25.5	26.0	26.5	26.0	26.0
4	19.0	18.0	18.0	24.5	23.5	24.0	26.0	25.5	26.0	26.0	25.5	26.0
5	18.0	18.0	18.0	25.0	24.0	24.0	26.0	25.5	26.0	26.5	25.5	26.0
6	18.0	18.0	18.0	24.5	24.0	24.0	26.0	25.5	25.5	26.5	25.5	26.0
7	19.0	18.0	18.0	25.0	24.0	24.5	26.0	25.5	25.5	26.0	25.5	25.5
8	18.5	18.0	18.0	25.0	24.5	25.0	26.0	25.0	25.5	25.5	25.0	25.5
9	19.0	18.5	18.5	25.5	25.0	25.0	26.0	25.0	25.5	25.5	25.0	25.0
10	19.0	18.5	19.0	26.0	25.0	25.5	25.5	25.0	25.5	25.5	25.0	25.0
11	19.5	19.0	19.0	26.0	25.5	26.0	25.5	25.0	25.5	25.0	24.0	24.5
12	20.0	19.0	19.5	26.5	25.5	26.0	25.5	25.0	25.0	24.5	24.0	24.5
13	20.5	19.5	20.0	26.5	26.0	26.0	26.0	25.0	25.5	24.5	24.0	24.5
14	20.5	19.5	20.0	26.5	26.0	26.5	26.0	25.0	25.5	24.5	24.0	24.0
15	20.5	20.0	20.0	26.5	26.0	26.5	26.0	25.5	25.5	24.5	24.0	24.5
16	21.5	20.0	20.5	26.5	26.0	26.0	25.5	25.5	25.5	24.5	23.5	24.0
17	21.5	20.5	21.0	26.5	25.5	26.0	25.5	25.5	25.5	24.0	23.5	23.5
18	22.0	20.5	21.0	26.5	25.5	26.0	25.5	25.5	25.5	24.0	23.0	23.5
19	22.5	21.0	21.5	26.0	25.5	25.5	26.0	25.5	25.5	23.5	22.5	23.0
20	22.0	21.5	22.0	26.0	25.5	25.5	25.5	25.5	25.5	23.0	22.5	23.0
21	22.5	21.5	22.0	26.0	25.5	25.5	25.5	25.0	25.5	23.0	22.0	22.5
22	22.5	22.0	22.0	26.0	25.5	25.5	25.5	25.0	25.5	22.5	21.5	22.0
23	22.5	21.5	22.0	25.5	25.0	25.5	25.5	25.0	25.5	22.0	21.5	22.0
24	22.5	22.0	22.0	25.5	25.0	25.5	25.5	25.0	25.5	22.0	21.0	21.5
25	23.0	22.0	22.5	25.5	25.0	25.5	26.0	25.0	25.5	22.0	21.0	21.5
26	23.0	22.0	22.5	25.5	25.0	25.5	26.0	25.5	25.5	21.5	21.0	21.5
27	23.5	22.5	23.0	25.5	25.0	25.0	26.5	25.5	26.0	21.5	21.0	21.0
28	23.5	23.0	23.0	26.0	25.0	25.5	26.5	26.0	26.0	21.0	20.5	21.0
29	24.0	23.0	23.5	26.0	25.5	25.5	26.5	26.0	26.0	21.0	20.5	20.5
30	24.0	23.5	23.5	26.0	25.5	25.5	26.5	26.0	26.0	20.5	20.0	20.5
31	---	---	---	26.0	25.5	25.5	26.5	26.0	26.0	---	---	---
MONTH	24.0	17.5	20.5	26.5	23.5	25.0	26.5	25.0	25.5	26.5	20.0	23.5

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	20.5	20.0	20.0	14.0	12.5	13.5	6.5	6.0	6.5	.5	.0	.5
2	20.0	19.5	20.0	13.0	12.0	12.5	6.5	6.0	6.0	.5	.5	.5
3	20.0	19.0	19.5	---	---	---	6.0	5.5	6.0	.5	.0	.5
4	20.0	19.0	19.5	12.5	12.0	12.0	6.0	5.5	6.0	.5	.0	.5
5	19.5	18.5	19.0	12.5	12.0	12.0	6.0	5.5	5.5	.0	.0	.0
6	19.5	18.0	19.0	12.0	11.5	12.0	5.5	5.5	5.5	.0	.0	.0
7	19.5	18.5	19.0	11.5	11.0	11.5	5.5	5.0	5.0	.0	.0	.0
8	19.0	18.0	18.5	11.0	11.0	11.0	5.5	5.0	5.0	.0	.0	.0
9	19.0	18.5	19.0	11.0	10.5	11.0	5.5	5.0	5.0	.0	.0	.0
10	19.0	18.0	18.5	11.0	10.5	10.5	5.0	5.0	5.0	.0	.0	.0
11	18.5	18.0	18.0	11.0	10.5	10.5	5.0	4.5	5.0	.0	.0	.0
12	18.0	17.5	18.0	10.5	10.0	10.5	4.5	4.0	4.5	.0	.0	.0
13	17.5	17.0	17.5	10.5	10.0	10.0	4.5	4.0	4.0	.0	.0	.0
14	17.5	16.5	17.0	10.5	10.0	10.0	4.5	4.0	4.0	.5	.0	.0
15	17.0	16.5	17.0	10.5	10.0	10.5	4.0	3.5	4.0	.0	.0	.0
16	17.0	16.5	16.5	10.5	10.0	10.5	4.0	3.5	3.5	.0	.0	.0
17	17.0	16.5	16.5	10.5	10.0	10.0	3.5	3.5	3.5	.0	.0	.0
18	17.0	16.5	16.5	10.0	10.0	10.0	3.5	3.5	3.5	.0	.0	.0
19	16.5	16.0	16.5	10.0	9.5	10.0	3.5	3.0	3.5	.0	.0	.0
20	16.5	16.0	16.5	10.0	9.0	9.5	3.0	3.0	3.0	.0	.0	.0
21	16.5	16.0	16.0	9.0	9.0	9.0	3.5	3.0	3.0	.0	.0	.0
22	16.0	15.5	16.0	9.0	8.5	9.0	3.5	3.0	3.0	.0	.0	.0
23	15.5	15.5	15.5	9.0	8.5	8.5	3.0	2.5	3.0	.0	.0	.0
24	15.5	15.0	15.5	9.0	8.5	8.5	3.0	2.5	3.0	.0	.0	.0
25	15.5	15.0	15.0	8.5	8.0	8.0	3.0	2.5	2.5	.0	.0	.0
26	15.5	15.0	15.0	8.0	7.5	7.5	2.5	1.5	2.0	.0	.0	.0
27	15.5	15.0	15.0	8.0	7.0	7.5	1.5	1.0	1.5	.0	.0	.0
28	15.5	14.5	15.0	9.0	8.0	8.5	1.5	1.0	1.5	.0	.0	.0
29	15.0	14.5	14.5	8.0	7.0	7.5	1.5	1.0	1.0	.0	.0	.0
30	14.5	14.0	14.5	7.0	6.5	7.0	1.5	.5	1.0	.5	.0	.0
31	14.5	13.5	14.0	---	---	---	1.0	.5	.5	.0	.0	.0
MONTH	20.5	13.5	17.0	---	---	---	6.5	.5	3.5	.5	.0	.0

HUDSON RIVER BASIN

01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

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

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

HUDSON RIVER BASIN

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01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	14.0	13.5	14.0	4.0	4.0	4.0	.5	.0	.0
2	20.5	20.0	20.5	14.0	13.5	14.0	4.0	3.5	4.0	.5	.0	.0
3	20.5	20.0	20.5	14.0	13.5	13.5	4.0	3.5	4.0	.0	.0	.0
4	20.5	20.5	20.5	13.5	13.0	13.5	4.0	3.5	4.0	.0	.0	.0
5	20.5	20.0	20.5	13.0	12.5	13.0	4.0	3.5	3.5	.0	.0	.0
6	20.5	20.0	20.5	13.0	12.5	12.5	4.0	3.5	3.5	.0	.0	.0
7	20.5	20.0	20.0	12.5	12.0	12.5	3.5	3.5	3.5	.0	.0	.0
8	20.5	20.0	20.0	12.0	11.0	11.5	3.5	3.0	3.5	.0	.0	.0
9	20.0	19.5	20.0	11.5	10.5	11.0	3.5	3.0	3.0	.0	.0	.0
10	20.0	19.5	19.5	11.0	10.5	10.5	3.0	2.5	2.5	.0	.0	.0
11	20.0	19.5	19.5	11.0	10.0	10.5	2.5	2.0	2.0	.0	.0	.0
12	20.0	19.0	19.5	11.0	10.0	10.5	2.0	2.0	2.0	.0	.0	.0
13	20.0	19.5	19.5	10.0	9.0	9.5	2.0	1.5	2.0	.0	.0	.0
14	19.5	19.5	19.5	9.0	8.5	8.5	2.0	1.5	1.5	.0	.0	.0
15	19.5	19.0	19.5	8.5	7.0	8.0	1.5	1.5	1.5	.0	.0	.0
16	19.0	18.5	19.0	7.0	6.5	7.0	2.0	1.5	1.5	.0	.0	.0
17	18.5	18.0	18.5	6.5	6.0	6.5	2.0	1.5	1.5	.0	.0	.0
18	18.5	18.0	18.5	6.0	6.0	6.0	2.0	1.5	1.5	.0	.0	.0
19	18.5	17.5	18.0	6.0	5.5	6.0	2.0	1.0	1.5	.5	.0	.0
20	18.5	17.5	18.0	6.0	5.5	5.5	2.0	1.0	1.5	.0	.0	.0
21	18.5	18.0	18.0	6.0	5.5	5.5	1.5	.5	1.0	.0	.0	.0
22	18.0	17.0	17.5	5.5	5.0	5.5	1.0	.5	1.0	.0	.0	.0
23	17.5	17.0	17.0	5.5	5.0	5.0	1.5	.5	1.0	.0	.0	.0
24	17.0	16.5	16.5	5.0	4.5	5.0	1.5	.5	1.0	.0	.0	.0
25	16.5	16.0	---	5.0	4.5	4.5	1.0	.5	1.0	.0	.0	.0
26	16.5	15.5	16.0	4.5	4.5	4.5	1.0	.5	.5	---	---	---
27	16.0	15.5	15.5	4.5	4.5	4.5	.5	.0	.5	.0	.0	.0
28	16.0	15.5	15.5	4.5	4.5	4.5	.5	.0	.5	.0	.0	.0
29	15.5	14.5	15.0	4.5	4.0	4.5	.5	.0	.0	.0	.0	.0
30	14.5	14.0	14.5	4.0	4.0	4.0	.0	.0	.0	.0	.0	.0
31	14.5	14.0	14.0	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	---	---	---	14.0	4.0	8.5	4.0	.0	2.0	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	.0	.0	.0	1.5	1.0	1.0	4.5	4.5	4.5	12.5	12.0	12.0
2	.0	.0	.0	1.5	1.0	1.0	5.5	4.5	5.0	12.0	11.5	11.5
3	.0	.0	.0	1.5	1.0	1.0	5.5	4.5	5.0	11.5	11.0	11.0
4	.0	.0	.0	1.0	1.0	1.0	5.5	5.0	5.5	11.0	10.5	11.0
5	.0	.0	.0	1.0	1.0	1.0	5.5	5.0	5.5	11.0	10.5	10.5
6	.0	.0	.0	1.1	1.0	---	6.0	5.0	5.5	11.0	10.5	10.5
7	.0	.0	.0	1.0	.5	1.0	6.0	5.5	5.5	10.5	10.5	10.5
8	---	---	---	.5	.0	.5	6.0	5.5	5.5	11.0	10.5	10.5
9	---	---	---	.5	.0	.0	---	---	---	11.0	10.5	11.0
10	.0	.0	.0	.5	.0	.0	6.0	5.5	6.0	11.0	11.0	11.0
11	.0	.0	.0	.5	.0	.5	6.5	6.0	6.0	12.0	11.0	11.5
12	.0	.0	.0	.5	.5	.5	6.5	---	---	12.0	11.5	11.5
13	.0	.0	.0	1.0	.5	.5	7.0	6.5	6.5	12.0	11.5	11.5
14	.0	.0	.0	1.5	1.0	1.0	7.0	6.5	6.5	12.5	11.5	12.0
15	.0	.0	.0	2.0	1.0	1.5	7.5	6.5	7.0	13.0	12.0	12.5
16	.0	.0	.0	2.5	1.5	2.0	7.0	7.0	7.0	12.5	12.0	12.5
17	.0	.0	.0	2.5	2.0	2.5	7.0	7.0	7.0	13.0	12.0	12.5
18	.0	.0	.0	2.5	2.5	2.5	8.0	7.0	7.5	12.5	12.5	12.5
19	.0	.0	.0	2.5	2.0	2.5	8.0	7.5	7.5	13.5	12.5	12.5
20	.0	.0	.0	2.5	2.5	2.5	8.5	8.0	8.0	13.5	12.5	13.0
21	.0	.0	.0	2.5	2.0	2.5	9.0	8.0	8.5	---	13.0	---
22	.0	.0	.0	2.5	2.0	2.5	9.0	8.5	8.5	14.0	13.5	13.5
23	.0	.0	.0	2.5	2.0	2.0	9.5	8.5	9.0	14.0	13.5	13.5
24	.5	.0	.0	3.0	2.0	2.5	9.5	9.0	9.0	14.5	13.5	14.0
25	1.0	.5	.5	3.0	2.5	2.5	9.5	9.0	9.0	14.5	14.0	14.0
26	1.0	.5	1.0	3.5	2.5	3.0	10.0	9.0	9.5	14.5	14.0	14.0
27	1.0	1.0	1.0	4.0	3.0	3.5	11.0	9.5	10.5	14.5	14.0	14.5
28	1.0	1.0	1.0	4.0	3.5	3.5	11.5	10.5	11.0	14.5	14.5	14.5
29	1.5	1.0	1.0	4.0	3.5	4.0	12.0	11.0	11.5	15.0	14.5	14.5
30	---	---	---	4.5	3.5	4.0	12.0	11.5	12.0	15.5	14.5	15.0
31	---	---	---	4.5	4.0	4.5	---	---	---	16.0	14.5	15.0
MONTH	---	---	---	4.5	.0	---	---	---	---	---	10.5	---

HUDSON RIVER BASIN

01374019 HUDSON RIVER AT SOUTH DOCK AT WEST POINT, NY--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	16.0	15.0	15.5	23.0	22.5	22.5	23.5	23.0	23.0	25.0	25.0	25.0
2	16.5	15.5	15.5	23.0	22.5	23.0	23.5	23.0	23.0	25.5	24.5	25.0
3	16.0	15.5	16.0	23.0	23.0	23.0	23.5	23.0	23.0	25.5	24.5	25.0
4	16.5	15.5	16.0	23.0	23.0	23.0	23.5	23.0	23.5	25.0	25.0	25.0
5	16.5	16.0	16.5	23.0	22.5	23.0	23.5	23.5	23.5	25.5	24.5	25.0
6	17.0	16.5	17.0	23.0	23.0	23.0	24.0	23.5	23.5	25.5	25.0	25.0
7	17.5	16.5	17.0	23.5	23.0	23.5	24.0	24.0	24.0	25.5	25.0	25.0
8	18.0	17.0	17.5	23.5	23.0	23.5	24.5	24.0	24.0	25.5	25.0	25.0
9	19.0	18.0	18.5	24.0	23.5	23.5	24.5	24.0	24.0	25.5	24.5	25.0
10	19.5	18.5	19.0	24.0	---	---	24.5	24.0	24.0	25.5	25.0	25.0
11	20.0	19.0	19.5	24.0	23.5	23.5	24.5	24.0	24.0	25.5	25.0	25.0
12	20.5	19.5	20.0	24.0	23.5	23.5	24.5	24.0	24.0	25.0	25.0	25.0
13	20.5	20.0	20.5	24.0	23.5	23.5	24.0	24.0	24.0	25.0	24.5	25.0
14	21.5	20.0	20.5	24.0	23.0	23.5	24.0	23.5	24.0	25.0	24.5	24.5
15	22.0	20.5	21.0	23.5	23.5	23.5	24.5	24.0	24.0	24.5	24.0	24.5
16	22.0	21.0	21.5	24.5	23.5	23.5	24.5	24.0	24.0	24.5	24.0	24.0
17	22.0	21.5	21.5	24.5	23.5	24.0	24.5	24.0	24.0	24.5	23.5	24.0
18	22.0	21.5	22.0	24.5	23.5	24.0	24.5	24.0	24.0	23.5	22.0	23.0
19	22.0	21.5	22.0	24.0	23.5	24.0	---	---	---	23.0	22.0	22.5
20	21.5	21.5	21.5	24.0	23.5	23.5	---	---	---	22.5	22.0	22.0
21	22.0	21.5	22.0	23.5	23.0	23.5	---	---	---	22.5	21.5	22.0
22	22.0	21.5	22.0	23.5	23.0	23.0	---	---	---	22.0	21.5	22.0
23	22.0	21.5	22.0	23.0	23.0	23.0	---	---	---	22.0	21.5	21.5
24	22.5	22.0	22.0	23.0	23.0	23.0	25.0	24.5	25.0	21.5	21.0	21.5
25	22.5	22.0	22.5	23.0	23.0	23.0	25.0	24.5	25.0	21.5	21.0	21.0
26	23.0	22.0	22.5	23.0	23.0	23.0	25.5	24.5	25.0	21.0	20.5	21.0
27	23.0	22.5	22.5	23.5	23.0	23.0	25.5	25.0	25.0	21.0	20.5	20.5
28	23.0	22.5	23.0	23.5	23.0	23.0	25.5	25.0	25.0	21.0	20.5	20.5
29	23.0	22.5	23.0	23.5	23.0	23.5	25.5	25.0	25.0	20.5	20.0	20.5
30	23.0	22.5	22.5	23.5	23.0	23.0	25.5	25.0	25.0	20.5	20.0	20.0
31	---	---	---	23.5	23.0	23.0	25.5	25.0	25.0	---	---	---
MONTH	23.0	15.0	20.0	24.5	---	---	---	---	---	25.5	20.0	23.5

HUDSON RIVER BASIN

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0137449480 EAST BRANCH CROTON RIVER NEAR PUTNAM LAKE, NY

LOCATION.--Lat 41°26'49", long 73°33'23", Putnam County, Hydrologic Unit 02030101, on left bank at downstream side of bridge on County Route 65, 1.3 mi southwest of Putnam Lake.

DRAINAGE AREA.--62.1 mi².

PERIOD OF RECORD.--October 1995 to September 1996.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 430 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Telephone gage-height telemeter at station.

AVERAGE DISCHARGE.--1 year, 162 ft³/s, 35.43 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,420 ft³/s, Jan. 28, 1996, gage height, 9.82 ft; minimum, 11 ft³/s, Oct. 3, 4, 1995, gage height, 2.45 ft.

EXTREMES 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)
Nov. 13	1945	635	7.56	Feb. 1	0445	583	7.36
Jan. 21	0530	1,230	9.36	Apr. 17	2245	604	7.44
Jan. 28	1400	*1,420	*9.82	July 16	0200	553	7.24

Minimum discharge, 11 ft³/s, Oct. 3, 4, gage height, 2.45 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	195	95	e33	531	253	111	273	50	34	100	19
2	14	159	96	e33	408	216	196	299	46	35	88	18
3	12	143	95	e34	365	190	290	270	54	42	76	17
4	11	136	95	e34	309	159	300	233	102	91	64	16
5	18	130	92	e35	278	e150	253	204	150	121	55	15
6	50	110	97	e36	241	e160	207	193	162	112	57	14
7	55	102	97	e37	210	e170	182	180	133	81	57	19
8	59	111	87	e38	192	e180	200	167	99	54	46	30
9	55	117	77	e39	e180	e190	227	152	73	45	36	35
10	43	121	69	e38	e170	e185	260	140	57	43	33	35
11	33	113	e62	e38	e160	e180	269	141	49	39	32	31
12	29	299	e55	e37	e150	e170	267	223	46	35	32	28
13	28	579	e47	e36	e140	180	289	263	43	89	29	25
14	28	613	44	e35	e130	196	301	255	40	286	33	26
15	42	609	45	e36	e125	224	292	211	38	454	35	27
16	48	612	45	e37	e120	251	339	175	35	540	34	26
17	48	535	47	e38	e110	249	535	171	33	481	30	30
18	43	435	e50	e40	e105	224	580	176	44	397	28	83
19	38	364	50	153	e100	197	488	193	64	310	26	161
20	35	315	e54	738	e98	211	398	205	98	235	24	184
21	59	280	57	1170	161	235	325	173	117	175	22	158
22	149	244	51	916	340	243	262	152	109	133	22	121
23	256	208	49	671	454	218	221	133	96	103	21	109
24	265	179	48	575	462	189	199	123	80	89	27	101
25	205	156	e47	698	459	164	184	107	55	84	34	101
26	145	137	e43	719	426	145	171	92	43	95	37	88
27	100	123	e41	726	370	130	161	79	37	147	34	72
28	132	113	e39	1320	327	118	147	70	34	174	29	62
29	205	107	e37	1100	293	112	146	64	32	172	25	82
30	264	100	e35	782	---	113	187	59	31	143	23	94
31	247	---	e34	607	---	113	---	54	---	115	21	---
TOTAL	2731	7445	1880	10829	7414	5715	7987	5230	2050	4954	1210	1827
MEAN	88.1	248	60.6	349	256	184	266	169	68.3	160	39.0	60.9
MAX	265	613	97	1320	531	253	580	299	162	540	100	184
MIN	11	100	34	33	98	112	111	54	31	34	21	14
CFSM	1.42	4.00	.98	5.63	4.12	2.97	4.29	2.72	1.10	2.57	.63	.98
IN.	1.64	4.46	1.13	6.49	4.44	3.42	4.78	3.13	1.23	2.97	.72	1.09

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

	MEAN	88.1	248	60.6	349	256	184	266	169	68.3	160	39.0	60.9
MAX	88.1	248	60.6	349	256	184	266	169	68.3	160	39.0	60.9	60.9
(WY)	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996
MIN	88.1	248	60.6	349	256	184	266	169	68.3	160	39.0	60.9	60.9
(WY)	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996

e Estimated

HUDSON RIVER BASIN

0137449480 EAST BRANCH CROTON RIVER NEAR PUTNAM LAKE, NY--Continued

SUMMARY STATISTICS

FOR 1996 WATER YEAR

ANNUAL TOTAL	59272	
ANNUAL MEAN	162	
HIGHEST DAILY MEAN	1320	Jan 28
LOWEST DAILY MEAN	11	Oct 4
ANNUAL SEVEN-DAY MINIMUM	17	Sep 1
ANNUAL RUNOFF (CFSM)	2.61	
ANNUAL RUNOFF (INCHES)	35.51	
10 PERCENT EXCEEDS	339	
50 PERCENT EXCEEDS	110	
90 PERCENT EXCEEDS	31	

HUDSON RIVER BASIN

171

01374505 EAST BRANCH CROTON RIVER AT BREWSTER, NY

LOCATION.--Lat 41°23'40", long 73°36'27", Putnam County, Hydrologic Unit 02030101, on right bank 50 ft downstream from bridge on U.S. Highway 6 in Brewster, 1.6 mi downstream from East Branch Reservoir dam, and 0.9 mi upstream from bridge at diverting reservoir.

DRAINAGE AREA.--81.2 mi².

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 330 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by East Branch Reservoir. Telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,320 ft³/s, Jan. 29, 1996, gage height, 6.21 ft; minimum daily, 69 ft³/s, Nov. 19, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,320 ft³/s, Jan. 29, gage height, 6.21 ft; minimum daily, 75 ft³/s, Oct. 1-2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	90	109	108	427	294	252	254	128	122	169	114
2	75	97	109	108	417	273	266	252	128	122	150	113
3	81	96	109	108	371	247	253	260	135	130	138	113
4	86	95	109	108	322	211	253	272	131	123	137	112
5	91	94	109	107	281	204	251	263	132	122	136	112
6	97	95	111	107	259	250	250	262	130	122	135	123
7	86	100	109	107	237	289	251	255	130	122	135	131
8	85	100	109	107	225	272	256	250	130	122	135	130
9	84	97	111	106	227	246	253	250	130	126	135	126
10	84	97	110	106	232	238	258	250	130	123	134	126
11	84	103	110	105	240	238	255	256	129	122	133	126
12	84	141	110	105	243	231	254	258	128	122	133	126
13	84	102	110	105	213	230	259	251	129	170	134	125
14	88	109	110	105	200	242	254	249	128	135	132	127
15	89	112	110	105	181	264	255	249	127	149	131	125
16	84	105	110	105	166	284	345	251	126	151	130	124
17	84	105	110	105	157	280	456	249	127	156	129	134
18	84	105	109	105	145	269	555	250	131	250	128	140
19	84	107	109	178	137	253	528	249	127	247	127	130
20	84	107	109	120	139	278	458	247	128	217	126	127
21	120	106	108	104	197	270	393	246	127	189	126	126
22	92	107	108	105	287	271	343	246	126	171	126	133
23	86	107	108	106	398	260	302	173	126	160	139	130
24	85	107	108	125	469	239	277	126	126	150	126	129
25	84	107	108	121	464	218	259	128	124	142	117	128
26	84	107	108	119	432	197	253	129	124	147	114	128
27	84	107	108	594	396	235	251	128	124	160	114	128
28	105	108	108	1110	367	255	250	128	123	174	114	130
29	88	108	108	1120	329	254	255	128	123	183	114	136
30	87	108	108	774	---	252	255	128	124	178	114	130
31	88	---	108	557	---	251	---	128	---	175	114	---
TOTAL	2696	3129	3380	7045	8158	7795	9000	6765	3831	4782	4025	3782
MEAN	87.0	104	109	227	281	251	300	218	128	154	130	126
MAX	120	141	111	1120	469	294	555	272	135	250	169	140
MIN	75	90	108	104	137	197	250	126	123	122	114	112

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1996, BY WATER YEAR (WY)

	MEAN	82.3	88.0	167	246	204	215	260	151	100	115	112	102
MAX	87.0	104	224	264	281	251	366	218	128	154	130	126	
(WY)	1996	1996	1995	1995	1996	1996	1994	1996	1996	1996	1996	1996	
MIN	77.6	71.8	109	227	123	178	113	88.2	82.5	95.5	89.9	77.7	
(WY)	1995	1995	1996	1996	1995	1995	1995	1995	1995	1994	1995	1995	

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1994 - 1996
ANNUAL TOTAL	43032	64388	
ANNUAL MEAN	118	176	150
HIGHEST ANNUAL MEAN			176
LOWEST ANNUAL MEAN			124
HIGHEST DAILY MEAN	421	Jan 23	1120
LOWEST DAILY MEAN	72	Sep 10	75
ANNUAL SEVEN-DAY MINIMUM	73	Sep 6	84
10 PERCENT EXCEEDS	198		270
50 PERCENT EXCEEDS	94		128
90 PERCENT EXCEEDS	78		97

e Estimated

HUDSON RIVER BASIN

01374531 EAST BRANCH CROTON RIVER NEAR CROTON FALLS, NY

LOCATION.--Lat 41°22'27", long 73°38'18", Putnam County, Hydrologic Unit 02030101, on right bank 200 ft downstream from dam on Diverting Reservoir, just downstream from Lower Mine Road, 2.6 mi northeast of Croton Falls, and 2.7 mi upstream from the confluence with West Branch Croton River.

DRAINAGE AREA.--86.4 mi².

PERIOD OF RECORD.--June 1994 to current year.

GAGE.--Water-stage recorder. Supplementary water-stage recorder and concrete control 90 ft downstream from release structure outlet. Elevation of gage is 280 ft above sea level, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges and those greater than 300 ft³/s, which are poor. Records include flow over spillway equal to or greater than 10 ft³/s and flow through release structure. Telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 3,000 ft³/s, Jan. 27, 1996, gage height, 6.17 ft, from rating curve extended above 380 ft³/s; minimum daily discharge, 66 ft³/s, Nov. 30, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 3,000 ft³/s, Jan. 27, gage height, 6.17 ft, from rating curve extended as explained above; minimum daily discharge, 66 ft³/s, Nov. 30.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	70	67	67	436	234	119	173	104	112	133	105
2	67	70	67	67	402	213	185	155	105	107	110	100
3	67	70	67	67	363	194	144	158	173	203	100	98
4	67	69	67	67	285	174	129	170	181	183	96	105
5	67	69	67	67	222	156	129	157	163	134	94	e100
6	67	69	67	67	195	215	122	169	141	123	92	e110
7	67	69	67	67	e180	243	132	152	133	116	90	168
8	67	69	67	75	e170	208	157	142	128	115	88	157
9	67	69	67	77	e160	185	149	136	121	132	89	128
10	67	69	68	77	e150	170	162	142	121	e120	87	118
11	67	69	67	73	e160	166	147	165	118	e110	81	110
12	70	70	67	71	e160	143	134	229	109	e150	82	106
13	71	69	67	69	149	113	155	166	113	297	95	104
14	71	68	67	68	140	121	145	153	113	234	88	113
15	71	68	67	67	126	141	133	146	106	245	87	103
16	71	68	68	67	124	141	328	158	98	292	84	102
17	71	68	68	68	119	141	405	163	102	204	83	154
18	71	68	68	68	106	136	475	157	146	219	79	218
19	71	68	67	363	98	126	445	154	128	209	78	160
20	70	69	68	431	102	163	376	175	137	164	77	134
21	70	e69	67	356	170	150	301	224	125	138	78	126
22	70	e69	67	281	247	146	236	222	117	124	78	157
23	70	e68	67	219	333	134	194	182	112	123	106	166
24	70	e68	67	272	427	115	170	136	106	110	144	137
25	70	e68	67	309	440	104	140	121	109	101	e130	136
26	70	e67	67	240	380	96	137	122	96	128	e120	122
27	70	e67	67	e1200	339	89	134	124	96	121	e110	114
28	70	e67	67	e1900	324	108	124	116	101	127	e110	114
29	70	e67	67	e1800	297	121	151	115	97	128	117	160
30	69	66	67	e940	---	116	166	107	116	124	111	122
31	70	---	67	e590	---	112	---	96	---	136	107	---
TOTAL	2143	2054	2082	10150	6804	4674	5924	4785	3615	4829	3024	3847
MEAN	69.1	68.5	67.2	327	235	151	197	154	120	156	97.5	128
MAX	71	70	68	1900	440	243	475	229	181	297	144	218
MIN	67	66	67	67	98	89	119	96	96	101	77	98

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1996, BY WATER YEAR (WY)

	1994	1995	1996	1995	1996	1995	1996	1995	1996	1995	1996
MEAN	71.3	78.0	156	323	169	147	147	116	100	118	93.4
MAX	73.5	87.5	245	327	235	151	197	154	120	156	128
(WY)	1995	1995	1995	1996	1996	1996	1996	1996	1996	1996	1996
MIN	69.1	68.5	67.2	318	101	143	95.7	78.5	75.9	72.8	73.1
(WY)	1996	1996	1996	1995	1995	1995	1995	1995	1995	1995	1995

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1994 - 1996
ANNUAL TOTAL	37701	53931	
ANNUAL MEAN	103	147	134
HIGHEST ANNUAL MEAN			147
LOWEST ANNUAL MEAN			120
HIGHEST DAILY MEAN	650	1900	1900
LOWEST DAILY MEAN	66	66	66
ANNUAL SEVEN-DAY MINIMUM	67	67	67
10 PERCENT EXCEEDS	173	234	235
50 PERCENT EXCEEDS	75	115	94
90 PERCENT EXCEEDS	67	67	70

e Estimated

HUDSON RIVER BASIN

173

01374559 WEST BRANCH CROTON RIVER AT RICHARDSVILLE, NY

LOCATION.--Lat 41°28'14", long 73°45'38", Putnam County, Hydrologic Unit 02030101, on right bank 200 ft downstream from State Highway 301, and 0.9 mi northeast of Richardsville.

DRAINAGE AREA.--11.0 mi².

PERIOD OF RECORD.--October 1995 to September 1996.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 590 ft above sea level, from topographic map.

REMARKS.--Records fair except those above 100 ft³/s and those for estimated daily discharges, which are poor. Telephone gage-height telemeter at station.

AVERAGE DISCHARGE.--1 year, 30.9 ft³/s, 38.15 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 512 ft³/s, Jan. 28, 1996, gage height, 3.68 ft; minimum, 0.04 ft³/s, Oct. 1, 2, 3, 4, 1995; minimum gage height, 0.25 ft, Oct. 3, 1995.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 28	1615	384	3.35	Jan. 28	0115	*512	*3.68
Nov. 12	1545	294	3.09	Apr. 17	0530	145	2.55
Jan. 21	0630	178	2.76	July 14	0200	280	3.05
Jan. 25	0830	158	2.64				

Minimum discharge, 0.04 ft³/s, Oct. 1, 2, 3, 4; minimum gage height, 0.25 ft, Oct. 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	48	27	6.0	67	48	24	63	5.8	9.0	11	.89
2	.04	43	26	6.2	57	44	48	57	5.0	7.4	11	.72
3	.04	38	24	e6.5	49	40	53	48	12	15	9.1	.58
4	.05	34	24	e6.5	e45	35	45	44	34	24	8.0	.48
5	.97	28	23	e6.5	e40	34	40	40	32	17	6.8	.48
6	13	24	22	e6.5	33	41	35	39	23	9.4	5.5	.44
7	16	22	20	e6.5	29	43	34	38	14	5.9	4.6	11
8	9.9	27	18	e6.5	28	40	40	32	9.2	4.6	3.8	19
9	5.5	28	e17	e6.5	29	e36	43	15	7.0	5.6	3.7	15
10	3.6	24	e16	6.5	31	e32	44	14	5.9	5.2	5.0	8.9
11	2.5	24	e16	6.9	30	31	42	21	5.4	3.5	3.9	5.4
12	1.5	205	e15	7.7	29	30	41	46	5.0	2.4	2.8	3.7
13	5.9	196	15	7.8	24	29	47	40	4.7	95	6.6	2.9
14	25	118	15	8.0	21	31	50	30	4.4	212	10	4.6
15	19	125	15	8.1	20	35	46	26	4.1	91	7.6	3.9
16	13	90	16	7.9	19	39	72	25	3.3	61	5.1	2.9
17	8.6	69	16	7.9	18	39	117	29	3.2	42	4.1	8.0
18	6.3	57	15	7.7	e17	37	80	27	24	29	3.2	47
19	4.8	54	14	33	e16	36	63	27	30	23	2.3	56
20	4.1	50	e13	98	19	43	53	24	29	21	1.8	32
21	23	41	e12	169	34	47	46	21	29	15	1.4	18
22	85	36	e10	129	55	45	40	20	21	11	1.1	17
23	69	31	e9.0	83	65	38	35	17	16	12	1.7	38
24	46	28	e8.0	86	73	30	35	14	11	18	9.9	33
25	35	24	7.2	149	79	29	31	12	9.0	16	13	26
26	26	24	6.8	94	73	28	28	9.6	6.9	22	7.7	20
27	20	26	6.5	206	65	27	27	9.1	5.0	30	4.7	15
28	201	25	6.4	381	61	25	24	8.9	4.5	26	3.1	13
29	208	29	6.2	184	56	25	26	8.4	3.9	17	2.4	26
30	102	27	e6.2	116	---	26	45	7.7	5.9	13	1.7	29
31	62	---	6.0	83	---	25	---	7.0	---	11	1.2	---
TOTAL	1016.84	1595	451.3	1937.2	1182	1088	1354	819.7	373.2	874.0	163.8	458.89
MEAN	32.8	53.2	14.6	62.5	40.8	35.1	45.1	26.4	12.4	28.2	5.28	15.3
MAX	208	205	27	381	79	48	117	63	34	212	13	56
MIN	.04	22	6.0	6.0	16	25	24	7.0	3.2	2.4	1.1	.44
CFSM	2.98	4.83	1.32	5.68	3.71	3.19	4.10	2.40	1.13	2.56	.48	1.39
IN.	3.44	5.39	1.53	6.55	4.00	3.68	4.58	2.77	1.26	2.96	.55	1.55

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

	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996
MEAN	32.8	53.2	14.6	62.5	40.8	35.1	45.1	26.4	12.4	28.2	5.28	15.3
MAX	32.8	53.2	14.6	62.5	40.8	35.1	45.1	26.4	12.4	28.2	5.28	15.3
(WY)	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996
MIN	32.8	53.2	14.6	62.5	40.8	35.1	45.1	26.4	12.4	28.2	5.28	15.3
(WY)	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996

e Estimated

HUDSON RIVER BASIN

01374559 WEST BRANCH CROTON RIVER AT RICHARDSVILLE, NY--Continued

SUMMARY STATISTICS

FOR 1996 WATER YEAR

ANNUAL TOTAL	11313.93	
ANNUAL MEAN	30.9	
HIGHEST DAILY MEAN	381	Jan 28
LOWEST DAILY MEAN	.04	Oct 1
ANNUAL SEVEN-DAY MINIMUM	.68	Aug 31
ANNUAL RUNOFF (CFSM)	2.81	
ANNUAL RUNOFF (INCHES)	38.26	
10 PERCENT EXCEEDS	63	
50 PERCENT EXCEEDS	22	
90 PERCENT EXCEEDS	3.9	

HUDSON RIVER BASIN

175

0137462010 WEST BRANCH CROTON RIVER NEAR CARMEL, NY

LOCATION.--Lat 41°24'42", long 73°41'39", Putnam County, Hydrologic Unit 02030101, on right bank 500 ft downstream from dam on West Branch Reservoir, 300 ft upstream from U.S. Highway 6, and 1.4 mi southwest of Carmel.

DRAINAGE AREA.--42.9 mi².

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 440 ft above sea level, from topographic map.

REMARKS.--Records good except those above 60 ft³/s, which are fair, and those for estimated daily discharges, which are poor. Flow regulated by West Branch Reservoir. Telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 192 ft³/s, Jan. 28, 1996, gage height, 2.77 ft; minimum daily, 1.1 ft³/s, May 23, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 192 ft³/s, Jan. 28, gage height, 2.77 ft; minimum daily, 15 ft³/s, Oct. 1-7, 12-14.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	16	30	31	31	29	23	25	29	29	e28	23
2	15	16	33	31	30	30	23	25	29	29	e28	23
3	15	16	38	32	29	31	23	25	29	29	e28	23
4	15	16	36	32	28	32	22	25	28	29	e28	23
5	15	16	35	32	27	33	21	25	28	29	e28	23
6	15	16	34	32	26	33	21	25	29	29	e28	23
7	15	17	35	32	25	30	21	25	28	29	e28	24
8	16	17	34	33	25	28	21	25	28	29	e28	24
9	16	17	35	33	25	26	21	25	28	29	e28	24
10	16	17	36	33	25	26	21	25	28	e29	e28	24
11	16	17	32	33	25	26	21	26	28	e30	e28	24
12	15	19	30	32	25	25	21	26	28	e30	e30	24
13	15	29	31	32	25	25	22	26	28	e30	e30	24
14	15	34	30	32	25	25	22	26	28	e35	e30	24
15	16	32	29	32	25	25	22	26	28	e60	e30	24
16	16	30	29	31	25	25	22	27	28	e35	e30	24
17	16	29	29	30	25	25	23	28	28	e30	e30	24
18	16	28	29	30	25	25	23	29	28	e30	e30	24
19	16	28	30	31	25	25	23	30	28	e30	e30	24
20	16	28	30	35	25	25	23	30	28	e30	e30	24
21	16	28	31	35	25	25	23	29	28	e30	e30	24
22	16	28	31	32	25	24	23	30	28	e30	e30	24
23	16	28	30	33	25	24	23	29	28	e30	e35	24
24	16	28	30	33	25	24	23	29	28	e30	e30	24
25	16	28	30	33	26	24	23	29	28	e30	e30	24
26	16	28	30	33	26	23	23	29	29	e30	e25	24
27	16	29	30	33	26	23	23	29	29	e30	e25	25
28	16	29	29	73	27	23	24	29	29	e28	e25	25
29	16	29	29	41	29	23	25	29	29	e28	24	27
30	16	29	30	34	---	23	25	29	29	e28	24	29
31	16	---	30	32	---	23	---	29	---	e28	24	---
TOTAL	486	722	975	1051	755	808	674	844	849	952	880	724
MEAN	15.7	24.1	31.5	33.9	26.0	26.1	22.5	27.2	28.3	30.7	28.4	24.1
MAX	16	34	38	73	31	33	25	30	29	60	35	29
MIN	15	16	29	30	25	23	21	25	28	28	24	23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1996, BY WATER YEAR (WY)

	MEAN	29.5	34.1	42.1	44.7	37.1	37.3	43.1	37.0	31.3	33.0	30.5	28.6
MAX	43.3	44.2	52.8	55.5	48.6	48.5	54.0	47.3	52.4	55.2	51.2	46.5	
(WY)	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1994	1994	1994
MIN	15.7	24.1	31.5	33.9	26.0	26.1	22.5	27.2	13.2	13.0	11.9	15.0	
(WY)	1996	1996	1996	1996	1996	1996	1996	1996	1995	1995	1995	1995	1995

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1994 - 1996
ANNUAL TOTAL	11102.7	9720	
ANNUAL MEAN	30.4	26.6	31.4
HIGHEST ANNUAL MEAN			36.2
LOWEST ANNUAL MEAN			26.6
HIGHEST DAILY MEAN	79	Jan 23	73
LOWEST DAILY MEAN	1.1	May 23	15
ANNUAL SEVEN-DAY MINIMUM	8.2	Aug 17	15
10 PERCENT EXCEEDS	54		32
50 PERCENT EXCEEDS	28		28
90 PERCENT EXCEEDS	13		16

e Estimated

HUDSON RIVER BASIN

01374654 MIDDLE BRANCH CROTON RIVER NEAR CARMEL, NY

LOCATION.--Lat 41°25'56", long 73°39'07", Putnam County, Hydrologic Unit 02030101, on right bank 0.2 mi downstream from Fair Street bridge, 1.8 mi downstream from dam on Lake Carmel, and 1.5 mi east of Carmel.

DRAINAGE AREA.--13.7 mi².

PERIOD OF RECORD.--December 1995 to September 1996.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 490 ft above sea level, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow regulated by Lake Carmel.

Telephone gage-height telemeter at station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period December to September, 428 ft³/s, Jan. 28, gage height, 5.19 ft, from rating curve extended above 140 ft³/s; minimum discharge, 1.7 ft³/s, Sept. 1, 2, 3, gage height, 1.44 ft minimum daily discharge, 1.8 ft³/s, Sept. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	e8.0	87	54	33	68	13	11	25	1.8
2	---	---	---	e7.5	72	e47	50	62	12	11	22	1.9
3	---	---	---	e7.0	64	e42	56	53	20	36	19	9.0
4	---	---	---	e6.2	57	e37	50	52	38	33	17	28
5	---	---	---	e5.5	49	e34	44	48	40	22	15	28
6	---	---	---	e5.4	e45	e38	39	47	32	16	13	28
7	---	---	---	e5.4	e40	e46	38	43	23	13	12	30
8	---	---	---	e5.7	37	e43	47	39	19	11	11	28
9	---	---	30	e6.0	40	e40	48	35	15	14	9.8	28
10	---	---	e26	e7.0	40	e38	53	33	14	11	10	22
11	---	---	e16	e7.5	e35	37	51	38	13	9.9	9.2	14
12	---	---	e9.0	e8.0	e30	36	47	59	12	8.8	8.6	14
13	---	---	e6.0	e8.5	e27	37	55	54	11	e90	12	14
14	---	---	e5.6	e9.0	e25	39	57	45	11	e140	13	15
15	---	---	e5.3	e9.0	24	44	52	38	10	e100	12	14
16	---	---	e5.1	e10	e23	47	111	39	9.0	e110	10	14
17	---	---	e5.0	e12	e23	45	162	42	8.4	76	9.7	17
18	---	---	e5.0	e14	e22	42	132	41	23	56	8.4	32
19	---	---	5.2	109	e22	41	94	42	31	45	12	39
20	---	---	e7.0	309	23	51	76	39	33	40	14	38
21	---	---	e6.0	220	52	55	65	35	29	36	13	38
22	---	---	5.7	138	75	51	56	34	24	17	13	40
23	---	---	e5.3	101	77	45	49	31	22	9.6	15	38
24	---	---	e5.0	107	83	40	48	30	21	18	14	38
25	---	---	e5.0	149	85	37	43	30	15	22	13	37
26	---	---	e5.0	120	84	35	39	16	12	31	13	32
27	---	---	e5.2	185	73	33	37	5.1	10	56	13	23
28	---	---	e5.7	345	66	31	33	6.0	9.5	53	13	24
29	---	---	e6.2	223	60	31	37	10	8.4	37	10	26
30	---	---	e7.0	149	---	32	51	13	10	28	2.1	24
31	---	---	e8.0	114	---	32	---	13	---	26	2.0	---
TOTAL	---	---	---	2410.7	1440	1260	1753	1140.1	548.3	1187.3	383.8	735.7
MEAN	---	---	---	77.8	49.7	40.6	58.4	36.8	18.3	38.3	12.4	24.5
MAX	---	---	---	345	87	55	162	68	40	140	25	40
MIN	---	---	---	5.4	22	31	33	5.1	8.4	8.8	2.0	1.8

e Estimated

HUDSON RIVER BASIN

177

01374701 WEST BRANCH CROTON RIVER NEAR CROTON FALLS, NY

LOCATION.--Lat 41°21'28", long 73°40'07", Putnam County, Hydrologic Unit 02030101, on right bank 500 ft downstream from dam on Croton Falls Reservoir, 0.7 mi north of Croton Falls, 4.0 mi southwest of Brewster, and 1.0 mi upstream from mouth.

DRAINAGE AREA.--80.4 mi².

PERIOD OF RECORD.--January 1994 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 210 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by Croton Falls Reservoir. Telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,160 ft³/s, Jan. 27, 1996, gage height, 3.79 ft, from rating curve extended above 580 ft³/s; minimum daily discharge, 15 ft³/s, Sept. 19-21, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,160 ft³/s, Jan. 27, gage height, 3.79 ft, from rating curve extended as explained above; minimum daily discharge, 46 ft³/s, Nov. 4-7.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	50	54	77	374	241	214	233	71	76	109	56
2	50	50	54	e80	345	232	368	214	73	70	92	71
3	51	47	54	e90	318	196	236	217	136	146	81	52
4	51	46	54	e90	272	175	234	225	144	141	80	53
5	52	46	54	75	256	183	228	214	126	98	75	54
6	52	46	55	78	235	239	210	228	108	82	73	57
7	51	46	54	88	218	277	217	205	98	75	69	100
8	51	47	54	147	208	254	241	193	93	74	67	92
9	50	47	55	111	197	215	231	187	86	93	67	75
10	50	47	55	98	194	202	271	191	84	78	79	70
11	50	47	55	92	196	197	243	209	83	63	68	63
12	49	50	54	99	192	228	220	273	82	59	62	60
13	50	50	52	99	171	229	238	216	84	284	84	61
14	49	51	50	90	165	237	236	204	85	240	70	67
15	50	51	51	85	150	258	215	191	78	235	66	56
16	50	51	50	83	147	291	367	207	68	277	64	56
17	49	51	75	83	141	256	396	213	71	191	65	109
18	50	52	e68	82	126	251	428	208	116	187	69	170
19	50	52	e74	308	120	244	415	204	99	178	59	113
20	50	52	e80	443	126	281	375	160	115	160	59	86
21	49	52	e74	360	192	264	330	162	110	118	59	79
22	49	52	e70	283	248	252	289	161	94	107	60	103
23	47	51	e68	233	299	246	258	133	100	108	79	117
24	47	52	e68	275	351	221	241	107	82	96	114	92
25	49	51	e66	295	320	208	206	100	95	88	77	93
26	47	52	e62	247	329	196	203	86	85	109	66	84
27	47	53	e60	625	308	206	203	87	66	105	61	80
28	49	54	e58	954	282	204	186	81	78	106	62	82
29	49	52	e52	893	236	222	217	82	59	106	59	120
30	48	53	61	658	---	218	230	122	81	102	61	100
31	50	---	73	492	---	206	---	63	---	111	53	---
TOTAL	1536	1501	1864	7713	6716	7129	7946	5376	2750	3963	2209	2471
MEAN	49.5	50.0	60.1	249	232	230	265	173	91.7	128	71.3	82.4
MAX	52	54	80	954	374	291	428	273	144	284	114	170
MIN	47	46	50	75	120	175	186	63	59	59	53	52

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1996, BY WATER YEAR (WY)

	MEAN	56.2	72.9	150	249	175	264	243	142	80.0	111	105	73.6
MAX	62.9	95.7	239	250	232	385	343	173	92.4	128	122	82.4	
(WY)	1995	1995	1995	1995	1996	1994	1994	1996	1994	1996	1995	1996	
MIN	49.5	50.0	60.1	249	135	177	122	91.3	55.9	93.9	71.3	64.5	
(WY)	1996	1996	1996	1996	1995	1995	1995	1995	1995	1994	1996	1994	

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1994 - 1996
ANNUAL TOTAL	39574	51174	
ANNUAL MEAN	108	140	134
HIGHEST ANNUAL MEAN			140
LOWEST ANNUAL MEAN			129
HIGHEST DAILY MEAN	388	Jan 21	954
LOWEST DAILY MEAN	15	Sep 19	46
ANNUAL SEVEN-DAY MINIMUM	16	Sep 19	46
10 PERCENT EXCEEDS	190		266
50 PERCENT EXCEEDS	108		92
90 PERCENT EXCEEDS	50		50

e Estimated

HUDSON RIVER BASIN

01374821 TITICUS RIVER AT PURDYS STATION, NY

LOCATION.--Lat 41°19'37", long 73°39'22", Westchester County, Hydrologic Unit 02030101, on left bank 40 ft upstream from bridge on State Highway 22 in Purdys Station, 0.45 mi downstream from dam on Titicus Reservoir, and 0.3 mi upstream from mouth.

DRAINAGE AREA.--23.8 mi².

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 210 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by Titicus Reservoir. Telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 561 ft³/s, Jan. 28, 1996, gage height, 5.23 ft, from rating curve extended above 120 ft³/s; minimum daily discharge, 3.5 ft³/s, Sept. 21, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 561 ft³/s, Jan. 28, gage height, 5.23 ft, from rating curve extended as explained above; minimum daily discharge, 3.6 ft³/s, Oct. 2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	12	29	15	120	64	47	89	18	15	33	12
2	3.6	13	29	16	102	61	109	84	16	14	32	12
3	7.6	12	29	22	92	57	115	74	28	29	28	12
4	8.3	12	29	22	79	50	92	74	65	50	25	12
5	3.8	13	28	20	70	49	76	68	66	41	22	12
6	7.2	12	30	18	62	75	65	69	53	30	19	12
7	7.1	13	29	18	57	108	62	66	40	22	16	12
8	7.0	13	27	28	56	103	75	59	31	18	15	11
9	6.8	13	28	27	60	87	82	52	25	24	13	11
10	6.5	12	27	23	67	75	93	49	22	29	13	11
11	6.3	13	23	21	68	66	95	53	20	27	13	11
12	6.3	85	21	22	67	62	91	106	17	21	12	11
13	6.0	146	19	23	57	63	98	103	16	109	14	12
14	6.6	137	20	21	49	70	95	81	17	291	13	11
15	10	152	21	20	44	83	85	67	15	229	12	11
16	11	137	20	19	42	92	138	e55	14	192	12	12
17	11	108	20	19	43	83	200	e62	13	132	12	14
18	11	86	20	20	40	74	163	e60	18	92	12	25
19	10	76	21	105	36	70	128	e58	24	69	12	52
20	12	69	24	340	39	85	106	e52	36	54	12	46
21	16	61	24	279	76	87	91	e50	60	42	12	36
22	13	54	22	193	119	79	80	e46	51	34	12	34
23	12	47	21	139	121	69	72	41	37	32	12	46
24	12	42	20	135	121	61	67	36	28	32	12	41
25	12	37	20	198	117	56	61	31	23	30	12	35
26	12	34	19	164	98	51	56	27	16	35	12	29
27	12	32	18	260	84	46	55	25	14	39	12	24
28	14	31	17	492	78	43	50	23	14	33	12	21
29	13	32	17	317	72	45	54	22	12	27	12	46
30	12	31	16	216	---	47	71	20	13	23	12	53
31	12	---	16	160	---	47	---	19	---	25	12	---
TOTAL	292.0	1535	704	3372	2136	2108	2672	1721	822	1840	472	687
MEAN	9.42	51.2	22.7	109	73.7	68.0	89.1	55.5	27.4	59.4	15.2	22.9
MAX	16	152	30	492	121	108	200	106	66	291	33	53
MIN	3.6	12	16	15	36	43	47	19	12	14	12	11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1996, BY WATER YEAR (WY)

	11.5	32.8	36.7	89.1	59.6	58.8	68.2	42.3	30.5	37.4	21.7	15.5
MEAN	11.5	32.8	36.7	89.1	59.6	58.8	68.2	42.3	30.5	37.4	21.7	15.5
MAX	13.5	51.2	50.6	109	73.7	68.0	89.1	55.5	51.2	59.4	37.1	22.9
(WY)	1995	1996	1995	1996	1996	1996	1996	1996	1994	1996	1994	1996
MIN	9.42	14.5	22.7	69.5	45.0	49.5	32.5	22.5	13.1	12.8	12.7	6.33
(WY)	1996	1995	1996	1995	1995	1995	1995	1995	1995	1995	1995	1995

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1994 - 1996	
ANNUAL TOTAL	10527.9		18361.0			
ANNUAL MEAN	28.8		50.2		39.4	
HIGHEST ANNUAL MEAN					50.2	
LOWEST ANNUAL MEAN					28.6	
HIGHEST DAILY MEAN	333	Jan 16	492	Jan 28	492	Jan 28 1996
LOWEST DAILY MEAN	3.5	Sep 21	3.6	Oct 2	3.5	Sep 21 1995
ANNUAL SEVEN-DAY MINIMUM	4.0	Sep 16	5.9	Oct 1	4.0	Sep 16 1995
10 PERCENT EXCEEDS	52		105		87	
50 PERCENT EXCEEDS	19		31		28	
90 PERCENT EXCEEDS	8.3		12		12	

e Estimated

HUDSON RIVER BASIN

179

01374890 CROSS RIVER NEAR CROSS RIVER, NY

LOCATION.--Lat 41°15'37", long 73°36'09", Westchester County, Hydrologic Unit 02030101, on left bank 20 ft downstream from bridge on Ward Pound Ridge Reservation, 0.7 mi upstream from Cross River Reservoir, and 0.7 mi east of Cross River.

DRAINAGE AREA.--17.1 mi².

PERIOD OF RECORD.--December 1995 to September 1996.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 335 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Telephone gage-height telemeter at station.

EXTREMES FOR CURRENT YEAR.--December 1995 to September 1996: Peak discharges greater than base discharge of 250 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 20	0115	334	4.56	July 14	0015	272	4.05
Jan. 27	2015	a*676	*5.87				

a From rating curve extended above 230 ft³/s.

Minimum discharge, 1.5 ft³/s, Sept. 3, 6; minimum gage height, 1.39 ft, Sept. 6.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	e10	e100	e44	38	73	9.6	12	23	2.0
2	---	---	---	e11	e80	e42	106	60	8.8	7.4	19	1.9
3	---	---	---	e11	e70	e41	82	53	36	18	25	1.7
4	---	---	---	e11	e65	e43	69	55	51	19	17	1.6
5	---	---	---	e11	e60	e40	59	48	35	13	13	1.7
6	---	---	---	e12	e55	e60	51	46	25	9.3	11	1.7
7	---	---	---	e13	e53	e65	51	37	18	7.2	9.5	11
8	---	---	e16	e16	51	e65	68	36	14	6.6	8.2	15
9	---	---	e16	e18	58	e62	67	35	12	20	7.3	13
10	---	---	e18	e19	59	e60	77	36	11	20	7.1	8.9
11	---	---	e15	e21	58	e55	77	40	11	14	5.8	6.3
12	---	---	e14	e21	e53	e50	68	70	9.6	9.6	5.0	5.0
13	---	---	e14	e20	e46	55	73	53	10	128	8.5	4.3
14	---	---	e14	e18	e40	63	67	43	14	190	8.1	6.1
15	---	---	15	e17	e35	68	60	37	10	134	7.2	4.6
16	---	---	18	e17	e33	69	161	34	8.3	97	6.0	3.7
17	---	---	17	e17	e31	60	147	39	7.3	67	5.3	23
18	---	---	16	18	e30	54	118	32	15	48	4.5	62
19	---	---	e14	114	e34	51	101	31	14	33	4.0	49
20	---	---	e15	246	37	91	88	34	28	32	3.6	33
21	---	---	e17	163	81	76	78	37	34	26	3.3	20
22	---	---	e16	126	99	70	69	31	23	20	3.0	21
23	---	---	e16	106	90	62	63	23	16	19	3.0	29
24	---	---	e15	130	94	53	60	20	12	19	5.2	21
25	---	---	e14	168	85	48	51	18	11	18	4.7	20
26	---	---	e14	132	75	44	47	16	8.5	31	3.7	15
27	---	---	14	324	e60	39	47	15	6.7	27	2.9	12
28	---	---	13	362	e55	36	40	14	6.4	20	2.7	11
29	---	---	12	e300	e47	38	44	13	5.5	16	2.8	39
30	---	---	e11	e200	---	42	60	12	9.9	11	2.5	27
31	---	---	e10	e130	---	38	---	11	---	20	2.2	---
TOTAL	---	---	---	2782	1734	1684	2187	1102	480.6	1112.1	234.1	470.5
MEAN	---	---	---	89.7	59.8	54.3	72.9	35.5	16.0	35.9	7.55	15.7
MAX	---	---	---	362	100	91	161	73	51	190	25	62
MIN	---	---	---	10	30	36	38	11	5.5	6.6	2.2	1.6
CFSM	---	---	---	5.25	3.50	3.18	4.26	2.08	.94	2.10	.44	.92
IN.	---	---	---	6.05	3.77	3.66	4.76	2.40	1.05	2.42	.51	1.02

e Estimated

HUDSON RIVER BASIN

01374901 CROSS RIVER AT KATONAH, NY

LOCATION.--Lat 41°15'58", long 73°39'58", Westchester County, Hydrologic Unit 02030101, on left bank 1,100 ft downstream from dam on Cross River Reservoir, and 1.5 mi northeast of Katonah.

DRAINAGE AREA.--29.9 mi².

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 210 ft above sea level, from topographic map. Prior to Feb. 8, 1996, at site 500 ft upstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by Cross River Reservoir. Telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 346 ft³/s, Mar. 29, 1994, gage height, 1.92 ft, site and datum then in use, from rating curve extended above 120 ft³/s; minimum daily discharge, 9.6 ft³/s, Oct. 12-20, 22-23, 26, Oct. 30 to Nov. 1, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 234 ft³/s, Dec. 12, gage height, 1.56 ft, site and datum then in use; minimum daily discharge, 9.6 ft³/s, Oct. 12-20, 22-23, 26, Oct. 30 to Nov. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	9.6	10	e10	e10	118	116	124	113	63	69	62
2	14	9.7	10	e10	e10	117	117	124	112	63	68	63
3	14	9.7	10	e10	e10	123	116	124	112	64	68	62
4	14	9.8	10	e10	e10	76	116	124	111	63	67	62
5	14	10	36	e10	e10	72	116	123	110	64	66	62
6	14	10	59	e10	e10	112	116	124	110	64	65	62
7	14	10	59	e10	e11	112	117	124	109	64	65	63
8	13	10	55	e10	e16	112	117	123	109	64	64	62
9	13	10	54	e10	27	112	117	124	108	65	64	62
10	13	10	53	e10	28	112	117	123	108	65	63	63
11	27	10	119	e11	29	111	118	124	107	65	63	62
12	9.6	10	202	e10	29	111	118	125	106	66	63	62
13	9.6	10	197	e10	30	111	118	124	106	70	62	63
14	9.6	10	e200	e10	30	111	118	122	105	68	62	63
15	9.6	10	e190	e10	44	111	118	120	e105	68	62	64
16	9.6	10	e180	e10	52	111	119	120	e100	68	63	64
17	9.6	10	e170	e12	52	112	118	119	e51	68	63	64
18	9.6	10	e160	e11	52	112	119	119	50	68	63	64
19	9.6	10	e190	e10	52	112	119	118	49	68	63	64
20	9.6	10	e120	e10	48	113	119	118	50	69	63	64
21	9.7	10	e12	e10	55	113	119	118	49	69	57	63
22	9.6	10	e10	e10	54	113	120	118	49	69	61	64
23	9.6	10	e10	e11	56	113	121	118	49	69	62	64
24	9.7	10	e10	e10	57	114	123	117	49	69	62	63
25	9.7	10	e10	e10	60	114	123	116	60	69	62	64
26	9.6	10	e10	e16	95	114	123	115	65	70	62	61
27	9.7	10	e10	e12	122	114	124	115	64	70	62	60
28	9.8	10	e10	e10	119	114	123	114	63	69	62	61
29	9.7	10	e10	e10	117	115	123	113	63	69	63	61
30	9.6	10	e10	e10	---	115	123	113	63	69	63	61
31	9.6	---	e10	e10	---	115	---	113	---	69	63	---
TOTAL	356.7	298.8	2196	323	1295	3435	3571	3716	2505	2078	1965	1879
MEAN	11.5	9.96	70.8	10.4	44.7	111	119	120	83.5	67.0	63.4	62.6
MAX	27	10	202	16	122	123	124	125	113	70	69	64
MIN	9.6	9.6	10	10	10	72	116	113	49	63	57	60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1996, BY WATER YEAR (WY)

MEAN	13.5	21.4	77.6	55.3	46.2	86.6	85.9	70.2	51.1	57.8	57.8	37.7
MAX	15.5	32.8	84.4	100	47.7	111	119	120	83.5	67.0	63.4	62.6
(WY)	1995	1995	1995	1995	1995	1996	1996	1996	1996	1996	1996	1996
MIN	11.5	9.96	70.8	10.4	44.7	62.5	38.2	25.9	14.6	40.5	51.2	21.8
(WY)	1996	1996	1996	1996	1996	1995	1995	1995	1995	1995	1995	1994

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1994 - 1996	
ANNUAL TOTAL	15320.5		23618.5			
ANNUAL MEAN	42.0		64.5		54.9	
HIGHEST ANNUAL MEAN					64.5	
LOWEST ANNUAL MEAN					45.3	
HIGHEST DAILY MEAN	225	Jan 21	202	Dec 12	314	Mar 29 1994
LOWEST DAILY MEAN	9.6	Oct 12	9.6	Oct 12	9.6	Oct 12 1995
ANNUAL SEVEN-DAY MINIMUM	9.6	Oct 12	9.6	Oct 12	9.6	Oct 12 1995
10 PERCENT EXCEEDS	84		119		119	
50 PERCENT EXCEEDS	37		63		50	
90 PERCENT EXCEEDS	10		10		10	

e Estimated

01374930 MUSCOOT RIVER AT BALDWIN PLACE, NY

LOCATION.--Lat 41°20'17", long 73°46'09", Westchester County, Hydrologic Unit 02030101, on left bank 30 ft upstream from bridge on State Highway 6, and 0.7 mi southwest of Baldwin Place.

DRAINAGE AREA.--13.5 mi².

PERIOD OF RECORD.--October 1995 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 505 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Telephone gage-height telemeter at station.

AVERAGE DISCHARGE.--1 year, 35.4 ft³/s, 35.61 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 449 ft³/s, Jan. 20, 1996, gage height, 6.79 ft; minimum, 0.73 ft³/s, Oct. 3, 4, 1995, gage height, 3.68 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 130 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 22	0045	166	5.63	Jan. 25	0015	163	5.61
Oct. 28	1800	146	5.51	Jan. 27	2245	346	6.44
Nov. 12	1030	237	5.99	Apr. 16	1930	141	5.48
Jan. 20	0330	*449	*6.79	July 13	2145	292	6.23

Minimum discharge, 0.73 ft³/s, Oct. 3, 4, gage height, 3.68 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.89	36	39	17	e70	e45	26	66	12	13	27	1.5
2	.84	36	41	17	e57	e42	70	54	11	7.2	21	1.5
3	.74	35	36	e14	e51	e41	46	46	22	27	16	1.4
4	.80	30	33	e14	e47	e38	33	49	48	59	14	1.3
5	2.2	25	31	e14	e43	37	30	45	32	21	12	1.3
6	47	21	32	e14	e41	e37	26	48	23	12	13	1.3
7	22	21	25	e14	e38	e38	25	46	17	10	7.4	7.7
8	8.3	40	19	e13	35	e38	40	43	15	8.3	5.3	16
9	8.0	28	18	e13	41	e39	38	39	14	22	4.6	7.7
10	7.6	23	e16	e14	46	e39	41	40	14	14	4.8	4.1
11	10	32	e14	e15	44	e40	42	43	14	9.2	3.9	3.4
12	15	172	e13	e16	44	e40	32	86	13	7.7	3.4	7.9
13	14	101	e13	e16	e36	e40	39	57	9.1	121	6.5	9.2
14	15	75	e13	e16	e31	e43	37	48	13	214	6.0	13
15	33	112	16	e17	e29	48	32	44	7.2	152	4.2	11
16	25	92	20	e17	e30	46	87	45	5.8	180	3.6	9.6
17	17	75	21	e18	e31	38	98	55	5.3	136	3.5	19
18	16	66	20	e18	e32	34	70	48	14	103	3.1	53
19	15	62	19	e120	e33	32	58	49	12	95	2.8	35
20	15	54	16	317	e34	44	50	43	18	81	2.6	19
21	51	51	23	106	e80	40	45	36	19	65	2.4	15
22	119	46	19	75	84	34	39	34	11	57	2.4	16
23	55	48	17	66	78	39	35	32	8.5	51	2.2	33
24	38	49	16	83	87	40	51	29	6.6	53	3.6	19
25	28	46	16	130	82	36	50	19	6.6	47	3.4	19
26	22	45	16	78	65	33	46	16	5.3	52	2.5	16
27	17	44	16	159	55	29	46	15	4.5	31	2.1	14
28	86	44	18	232	e51	28	40	16	4.2	14	1.9	13
29	88	43	17	111	e48	32	44	15	3.8	16	1.9	36
30	50	40	17	87	---	30	61	13	6.4	14	1.7	23
31	39	---	17	78	---	27	---	12	---	22	1.6	---
TOTAL	866.37	1592	647	1919	1443	1167	1377	1231	395.3	1714.4	190.4	427.9
MEAN	27.9	53.1	20.9	61.9	49.8	37.6	45.9	39.7	13.2	55.3	6.14	14.3
MAX	119	172	41	317	87	48	98	86	48	214	27	53
MIN	.74	21	13	13	29	27	25	12	3.8	7.2	1.6	1.3
CFSM	2.07	3.93	1.55	4.59	3.69	2.79	3.40	2.94	.98	4.10	.45	1.06
IN.	2.39	4.39	1.78	5.29	3.98	3.22	3.79	3.39	1.09	4.72	.52	1.18

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

	MEAN	27.9	53.1	20.9	61.9	49.8	37.6	45.9	39.7	13.2	55.3	6.14	14.3
MAX	27.9	53.1	20.9	61.9	49.8	37.6	45.9	39.7	13.2	55.3	6.14	14.3	
(WY)	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996
MIN	27.9	53.1	20.9	61.9	49.8	37.6	45.9	39.7	13.2	55.3	6.14	14.3	
(WY)	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996

SUMMARY STATISTICS

FOR 1996 WATER YEAR

ANNUAL TOTAL	12970.37
ANNUAL MEAN	35.4
HIGHEST DAILY MEAN	317
LOWEST DAILY MEAN	.74
ANNUAL SEVEN-DAY MINIMUM	1.4
ANNUAL RUNOFF (CFSM)	2.63
ANNUAL RUNOFF (INCHES)	35.74
10 PERCENT EXCEEDS	75
50 PERCENT EXCEEDS	29
90 PERCENT EXCEEDS	4.7

e Estimated

HUDSON RIVER BASIN

01374941 MUSCOOT RIVER BELOW DAM AT AMAWALK, NY

LOCATION.--Lat 41°17'15", long 73°45'13", Westchester County, Hydrologic Unit 02030101, on left bank 20 ft upstream from bridge on State Highway 35 (Amawalk Road), 500 ft downstream from dam on Amawalk Reservoir, and 1.0 mi east of Amawalk.

DRAINAGE AREA.--19.7 mi².

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 340 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Amawalk Reservoir. Telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 283 ft³/s, July 16, 1996, gage height, 10.02 ft, from rating curve extended above 120 ft³/s; minimum daily discharge, 2.9 ft³/s, May 25, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 283 ft³/s, July 16, gage height, 10.02 ft, from rating curve extended as explained above; minimum daily discharge, 14 ft³/s, June 16-18.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	17	19	21	98	67	42	84	17	16	31	111
2	18	18	18	21	87	63	69	80	17	16	30	110
3	16	17	18	20	81	61	73	75	19	16	28	70
4	18	16	19	20	70	54	64	75	32	18	25	20
5	20	16	18	20	62	53	56	71	38	21	22	24
6	18	16	19	20	56	62	47	70	36	20	20	22
7	19	18	20	20	52	73	43	68	30	18	18	21
8	19	17	19	20	50	72	48	64	25	16	17	22
9	17	18	20	20	50	66	51	60	21	20	17	23
10	18	19	20	20	51	61	53	58	19	19	17	20
11	18	19	21	20	52	55	54	61	18	18	17	20
12	19	19	21	20	51	53	52	84	16	16	28	21
13	17	19	22	19	47	52	52	87	16	57	52	21
14	18	21	23	19	44	54	52	78	17	170	66	21
15	18	20	24	19	41	59	48	70	15	199	66	21
16	19	20	25	19	41	63	72	67	14	269	90	21
17	18	20	23	18	41	59	114	74	14	221	119	21
18	19	20	22	18	40	55	113	72	14	172	119	23
19	18	20	22	19	41	52	101	70	15	139	118	22
20	16	20	22	19	40	59	90	66	15	117	118	22
21	20	20	22	18	54	59	81	61	17	96	117	21
22	17	19	22	18	93	56	72	52	16	81	117	22
23	19	17	22	18	107	52	66	46	15	72	116	19
24	19	17	21	19	121	51	64	43	15	67	115	22
25	17	17	21	18	109	50	64	37	15	61	116	22
26	17	17	21	19	94	48	64	31	15	60	115	21
27	16	18	21	31	84	46	65	27	16	58	113	21
28	17	18	21	138	79	42	60	24	16	45	114	21
29	16	17	21	161	74	43	61	22	16	36	112	21
30	16	18	21	140	---	44	74	21	16	30	111	22
31	17	---	21	120	---	43	---	18	---	30	112	---
TOTAL	550	548	649	1092	1910	1727	1965	1816	565	2194	2276	868
MEAN	17.7	18.3	20.9	35.2	65.9	55.7	65.5	58.6	18.8	70.8	73.4	28.9
MAX	20	21	25	161	121	73	114	87	38	269	119	111
MIN	16	16	18	18	40	42	42	18	14	16	17	19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1996, BY WATER YEAR (WY)

	1994	1995	1996	1995	1996	1996	1997	1998	1999	2000	2001	2002
MEAN	16.1	18.8	29.6	50.5	49.8	44.8	57.8	39.4	20.4	38.6	38.9	22.9
MAX	17.7	19.4	38.2	65.7	65.9	55.7	83.6	58.6	24.0	70.8	73.4	28.9
(WY)	1996	1995	1995	1995	1996	1996	1996	1996	1994	1996	1996	1996
MIN	14.4	18.3	20.9	35.2	33.1	33.9	24.4	20.6	18.4	20.5	20.9	15.8
(WY)	1995	1996	1996	1996	1995	1995	1995	1995	1995	1995	1994	1994

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1994 - 1996
ANNUAL TOTAL	9729.7	16160	
ANNUAL MEAN	26.7	44.2	36.1
HIGHEST ANNUAL MEAN			44.2
LOWEST ANNUAL MEAN			27.9
HIGHEST DAILY MEAN	120	269	269
LOWEST DAILY MEAN	2.9	14	2.9
ANNUAL SEVEN-DAY MINIMUM	4.2	15	4.2
10 PERCENT EXCEEDS	44	95	73
50 PERCENT EXCEEDS	22	22	23
90 PERCENT EXCEEDS	17	17	16

HUDSON RIVER BASIN

183

01374976 ANGLE FLY BROOK AT WHITEHALL CORNERS, NY

LOCATION.--Lat 41°16'57", long 73°43'33", Westchester County, Hydrologic Unit 02030101, on left bank 20 ft downstream from bridge on State Highway 35, 0.6 mi upstream from Muscoot Reservoir, and 1.0 mi northeast of Whitehall Corners.

DRAINAGE AREA.--3.01 mi².

PERIOD OF RECORD.--December 1995 to September 1996.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 230 ft above sea level, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Telephone gage-height telemeter at station.

EXTREMES FOR CURRENT YEAR.--December 1995 to September 1996: Peak discharges greater than base discharge of 60 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 19	1630	176	3.18	Apr. 16	1000	79	1.84
Jan. 27	1615	168	3.09	July 13	1200	181	3.02
Apr. 2	0045	66	1.65	July 15	1930	*200	*3.20

Minimum discharge, 0.02 ft³/s, Sept. 6, gage height, 0.04 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	e1.4	e11	e6.8	7.2	11	1.4	4.4	6.0	.29
2	---	---	---	e1.4	e9.5	e6.5	27	7.0	1.3	1.8	3.8	.24
3	---	---	---	e1.4	e8.2	e6.2	10	8.1	12	21	3.2	.18
4	---	---	---	e1.5	e7.5	e5.7	8.1	8.6	9.7	12	2.7	.21
5	---	---	---	e1.5	e6.8	8.5	7.9	6.8	5.3	4.4	2.2	.28
6	---	---	---	e1.6	e6.5	e17	6.9	8.3	2.9	2.6	1.8	.18
7	---	---	---	e1.6	e6.8	e12	8.0	6.9	2.2	1.9	1.5	4.1
8	---	---	2.3	e1.7	7.2	e8.2	13	6.0	1.7	2.0	1.3	2.9
9	---	---	e2.2	e1.7	e8.0	e7.0	9.5	5.6	1.3	11	1.1	1.3
10	---	---	e2.0	e1.7	e8.2	e6.5	14	6.0	1.4	3.6	1.1	.65
11	---	---	e1.9	e1.8	e8.1	e6.8	9.6	11	1.4	2.1	.86	.49
12	---	---	e1.6	e1.8	e6.5	e7.8	8.1	18	1.2	1.7	.84	.46
13	---	---	e1.5	e1.8	e4.7	11	10	8.6	3.7	85	2.4	.55
14	---	---	e1.7	e1.9	e4.6	13	8.5	6.9	3.1	38	1.5	1.6
15	---	---	2.1	e1.9	e4.5	13	7.2	6.1	1.4	43	1.0	.66
16	---	---	2.3	e1.9	e4.3	12	37	8.8	1.0	50	.83	.52
17	---	---	2.2	e2.0	e4.2	8.5	18	9.3	1.1	19	.76	9.6
18	---	---	2.1	e2.4	e4.2	7.8	12	7.4	5.1	13	.63	21
19	---	---	1.9	62	e4.4	7.7	11	6.8	3.4	11	.54	6.1
20	---	---	2.2	52	6.5	15	9.6	5.6	11	8.6	.49	1.6
21	---	---	2.2	21	22	9.7	8.6	4.8	6.9	6.3	.47	.97
22	---	---	2.1	14	18	8.0	7.7	4.2	3.1	5.5	.45	7.5
23	---	---	e2.0	12	14	7.0	7.4	3.4	2.2	6.7	.44	7.7
24	---	---	e1.8	30	19	6.4	7.8	3.0	1.6	6.1	.68	2.7
25	---	---	e1.7	27	13	6.2	6.5	2.5	1.5	5.3	.54	2.7
26	---	---	e1.7	15	10	5.8	6.6	2.3	1.1	7.4	.40	1.4
27	---	---	e1.6	76	9.2	5.2	6.8	2.3	.98	5.1	.40	1.1
28	---	---	e1.5	57	e8.5	5.1	5.5	2.1	1.0	3.8	.42	1.4
29	---	---	e1.4	24	e7.4	6.6	11	1.9	.82	3.2	.39	9.3
30	---	---	e1.4	18	---	6.9	12	1.7	4.5	3.0	.33	3.0
31	---	---	1.4	e14	---	5.9	---	1.6	---	6.4	.30	---
TOTAL	---	---	---	453.0	252.8	259.8	322.5	192.6	95.30	394.9	39.37	90.68
MEAN	---	---	---	14.6	8.72	8.38	10.7	6.21	3.18	12.7	1.27	3.02
MAX	---	---	---	76	22	17	37	18	12	85	6.0	21
MIN	---	---	---	1.4	4.2	5.1	5.5	1.6	.82	1.7	.30	.18
CFM	---	---	---	4.85	2.90	2.78	3.57	2.06	1.06	4.23	.42	1.00
IN.	---	---	---	5.60	3.12	3.21	3.99	2.38	1.18	4.88	.49	1.12

e Estimated

HUDSON RIVER BASIN

01374987 KISCO RIVER BELOW MOUNT KISCO, NY

LOCATION.--Lat 41°13'43", long 73°44'39", Westchester County, Hydrologic Unit 02030101, on right bank 120 ft downstream from bridge on Yeshiva Nitra Road off Pines Bridge Road, and 0.8 mi northwest of Mount Kisco.

DRAINAGE AREA.--17.1 mi².

PERIOD OF RECORD.--October 1995 to September 1996.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 250 ft above sea level, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Telephone gage-height telemeter at station.

EXTREMES FOR CURRENT YEAR.--October 1995 to September 1996: 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)
Nov. 12	0945	411	4.36	Apr. 16	1700	316	4.05
Jan. 20	0200	a631	4.93	July 13	2200	474	4.54
Jan. 27	2300	a*710	b*5.10				

a From rating curve extended above 300 ft³/s.

b Recorded; outside gage height was 5.31 ft, from crest-stage gage.

Minimum discharge, 2.6 ft³/s, Sept. 4, 6, gage height, 1.27 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	16	20	e10	e72	e39	38	68	11	27	33	3.1
2	---	28	21	e10	e52	e38	159	43	10	14	21	3.0
3	---	31	18	e9.8	e47	e37	71	40	37	30	19	2.7
4	---	21	19	e9.8	e44	e36	50	46	79	28	16	2.7
5	---	16	17	e9.5	e41	39	45	37	31	16	13	2.8
6	---	14	21	e9.5	e40	90	42	41	19	11	12	2.8
7	---	20	20	e9.5	e41	103	44	41	15	8.8	11	32
8	---	42	17	e9.5	41	e58	76	34	13	20	9.6	26
9	---	25	16	e11	58	e53	64	31	11	90	9.4	e23
10	---	18	e14	e12	60	e48	75	31	11	23	9.5	e18
11	---	24	e13	e12	54	e46	68	35	11	e14	7.9	e12
12	---	301	e12	e12	e47	48	51	74	11	e12	7.2	e9.0
13	---	123	e11	e13	e40	53	58	41	17	227	14	e8.0
14	---	73	e11	e13	e33	63	52	31	46	256	13	e11
15	---	106	e13	e13	e30	68	44	28	18	83	9.4	e8.0
16	---	67	16	e14	e29	69	198	33	12	98	7.8	e6.0
17	---	48	17	e15	e28	51	157	51	10	52	7.3	e20
18	---	41	16	e17	e29	46	88	35	17	36	6.5	e80
19	---	44	14	e220	e32	45	72	32	19	32	5.8	e70
20	---	38	e13	408	37	106	65	28	37	29	5.5	e44
21	67	33	e12	135	115	68	59	24	51	22	5.1	e30
22	136	30	e12	89	102	52	51	21	24	19	5.0	e33
23	34	29	e12	73	77	45	48	19	17	26	4.8	e40
24	18	28	e12	116	88	41	49	18	14	28	9.3	e30
25	13	25	e11	188	75	39	41	16	14	21	7.2	22
26	11	24	e11	88	55	37	39	15	11	31	5.6	16
27	9.6	22	e11	289	50	34	44	15	9.1	27	4.8	13
28	69	21	e11	401	e47	32	35	15	9.5	18	4.4	12
29	58	21	e10	153	e43	39	46	14	8.2	15	4.2	57
30	25	20	e10	114	---	43	67	14	17	14	3.6	31
31	18	---	e10	93	---	40	---	12	---	27	3.3	---
TOTAL	---	1349	441	2576.6	1507	1606	1996	983	609.8	1354.8	295.2	668.1
MEAN	---	45.0	14.2	83.1	52.0	51.8	66.5	31.7	20.3	43.7	9.52	22.3
MAX	---	301	21	408	115	106	198	74	79	256	33	80
MIN	---	14	10	9.5	28	32	35	12	8.2	8.8	3.3	2.7
CFSM	---	2.55	.81	4.72	2.95	2.94	3.78	1.80	1.15	2.48	.54	1.27
IN.	---	2.85	.93	5.45	3.19	3.39	4.22	2.08	1.29	2.86	.62	1.41

e Estimated

HUDSON RIVER BASIN

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01375000 CROTON RIVER AT NEW CROTON DAM, NEAR CROTON-ON-HUDSON, NY

LOCATION.--Lat 41°13'30", long 73°51'35", Westchester County, Hydrologic Unit 02030101, on left bank 1,000 ft downstream from New Croton Dam, and 1.8 mi northeast of Croton-On-Hudson.

DRAINAGE AREA.--378 mi².

PERIOD OF RECORD.--July 1933 to current year. Prior to Oct. 1, 1941, published as "at Quaker Bridge," (low-flow records at this site are not equivalent owing to well pumpage upstream). Fragmentary records published during August 1933 to September 1941 for "at Cornell Dam near Croton" and "at New Croton near Croton" are equivalent. Oct. 1, 1941 to Sept. 30, 1955 published as "at New Croton Dam near Croton".

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 50 ft above sea level, from topographic map. Prior to Oct. 1, 1941, supplementary water-stage recorder and concrete control at site 1.1 mi downstream at Quaker Bridge.

REMARKS.--Records good except those below 300 ft³/s and those for estimated daily discharges, which are poor. Entire flow, except for periods of spilling and releases to augment Croton-on-Hudson water supply, diverted from New Croton Reservoir for municipal supply of City of New York.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,400 ft³/s, Oct. 16, 1955, gage height, 18.44 ft, from floodmarks, from rating curve extended above 9,700 ft³/s, on basis of slope-area measurements of peak flow; minimum daily discharge, 0.1 ft³/s, Mar. 14, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,650 ft³/s, Jan. 28, gage height, 8.07 ft; minimum daily, 6.0 ft³/s, Nov. 6, 10.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	8.0	86	164	1670	863	546	971	126	260	487	342
2	6.8	8.6	89	187	1450	814	1440	786	120	216	407	345
3	6.9	8.1	84	197	1360	750	1110	729	313	417	350	335
4	7.2	8.0	78	141	e1000	650	859	808	819	732	303	285
5	7.9	7.0	57	87	e920	576	751	730	611	440	275	264
6	8.4	6.0	94	e40	e900	949	676	744	426	287	254	273
7	7.2	6.5	111	e40	e1000	1340	663	711	325	220	229	468
8	7.4	6.6	94	e300	e800	1160	893	637	297	213	209	542
9	7.8	6.1	122	e200	e800	908	871	582	266	464	201	425
10	7.7	6.0	102	e150	e900	e800	968	565	232	325	209	355
11	7.7	6.5	64	e90	e850	e750	928	606	196	187	187	317
12	7.8	1050	109	98	e750	e725	794	1230	209	139	166	294
13	7.6	1110	152	112	e700	713	841	959	273	1620	243	292
14	8.0	757	216	94	e640	773	815	730	436	2780	277	345
15	8.5	899	235	80	e600	896	725	622	312	1740	253	308
16	7.8	702	241	64	e500	1010	1630	626	222	2380	233	281
17	7.8	509	253	90	e550	846	2050	767	165	1490	256	510
18	7.8	393	259	134	e550	768	1660	691	244	1050	264	1230
19	7.8	357	270	1340	e600	763	1500	660	236	838	251	913
20	7.7	276	305	3770	e700	1050	1330	585	312	691	237	575
21	12	210	257	2140	e900	1000	1170	506	466	522	232	441
22	9.3	193	238	1560	1270	850	993	550	324	437	243	496
23	8.2	169	228	1250	1260	751	853	483	213	436	245	783
24	8.0	165	220	1380	1420	682	796	381	153	433	349	584
25	7.9	158	211	2100	1420	633	681	309	134	353	355	504
26	7.6	147	204	1500	1260	580	637	275	110	390	296	442
27	7.7	136	221	2740	1210	545	646	276	66	412	267	389
28	13	123	220	5510	1130	515	582	262	69	342	251	371
29	8.9	137	185	3940	1000	603	661	224	45	302	239	681
30	8.3	114	157	2950	---	622	923	202	122	296	326	619
31	8.1	---	156	2210	---	589	---	150	---	368	341	---
TOTAL	251.6	7682.4	5318	34658	28110	24474	28992	18357	7842	20780	8435	14009
MEAN	8.12	256	172	1118	969	789	966	592	261	670	272	467
MAX	13	1110	305	5510	1670	1340	2050	1230	819	2780	487	1230
MIN	6.8	6.0	57	40	500	515	546	150	45	139	166	264

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 1996, BY WATER YEAR (WY)

	MEAN	153	184	283	315	398	639	688	418	214	98.2	103	96.0
MAX	3160	1815	1372	1123	1608	1599	2469	1667	1832	921	1179	1177	
(WY)	1956	1956	1973	1978	1970	1953	1983	1989	1972	1984	1990	1975	
MIN	.30	.40	.52	.59	.90	.38	.91	.75	.85	.71	.36	.48	
(WY)	1966	1966	1966	1966	1967	1965	1965	1963	1965	1965	1981	1981	

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR			FOR 1996 WATER YEAR			WATER YEARS 1933 - 1996		
ANNUAL TOTAL	77685.0			198909.0					
ANNUAL MEAN	213			543			299		
HIGHEST ANNUAL MEAN							849		
LOWEST ANNUAL MEAN							.90		
HIGHEST DAILY MEAN	2160			5510			33000		
LOWEST DAILY MEAN	1.9			6.0			.10		
ANNUAL SEVEN-DAY MINIMUM	3.8			6.4			.20		
10 PERCENT EXCEEDS	597			1180			906		
50 PERCENT EXCEEDS	88			347			14		
90 PERCENT EXCEEDS	7.8			8.5			.97		

e Estimated

LOCATION.--Lat 40°59'16", long 73°53'15", Westchester County, Hydrologic Unit 02030101, 180 ft from left bank on abandoned Mobil Oil Corporation platform, 0.5 mi southwest of railroad station, at Hastings-on-Hudson. Water-quality sampling site at stage station.

DRAINAGE AREA.--13,265 mi².

WATER-STAGE RECORDS

Water year 1996: Maximum elevation, 5.26 ft, Nov. 12; minimum, -4.01 ft, Mar. 4

[illegible]

HUDSON RIVER BASIN

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01376304 HUDSON RIVER SOUTH OF HASTINGS-ON-HUDSON, NY--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	4.08	-.83	1.58	3.71	-1.39	1.16	3.35	-1.64	.87	2.92	-1.68	.61
2	4.11	-.94	1.49	3.81	-1.13	1.26	3.20	-1.59	.87	2.92	-1.46	.74
3	3.94	-1.09	1.30	3.71	-1.12	1.18	3.20	-1.50	.98	3.05	-.87	1.04
4	3.77	-1.11	1.19	3.71	-.77	1.38	3.35	-1.05	1.16	2.65	-1.03	.82
5	4.28	-.89	1.71	3.59	-.97	1.39	2.74	-1.33	.77	2.86	-.53	1.03
6	4.61	-.32	1.90	3.45	-.89	1.41	2.74	-1.17	.74	2.70	-.60	1.07
7	3.71	-.76	1.48	3.18	-1.11	1.17	2.67	-1.13	.76	2.87	-.60	1.03
8	3.37	-.98	1.31	2.97	-1.26	1.02	2.91	-.77	.99	3.06	-.79	1.02
9	3.28	-1.08	1.24	---	---	---	3.09	-.68	1.18	---	---	---
10	3.55	-1.03	1.32	---	---	---	3.26	-.75	1.18	---	---	---
11	3.64	-.98	1.29	---	---	---	3.07	-.64	1.23	---	---	---
12	3.59	-1.06	1.24	---	---	---	2.96	-1.03	.90	---	---	---
13	3.49	-1.17	1.10	---	---	---	3.34	-1.10	1.12	---	---	---
14	3.58	-.98	1.17	---	---	---	3.48	-.47	1.46	---	---	---
15	3.46	-1.09	1.10	---	---	---	3.46	-.59	1.51	2.71	-1.16	.78
16	3.17	-.94	1.01	3.76	-.56	1.56	3.14	-.70	1.28	2.64	-1.23	.73
17	3.16	-1.15	.87	3.47	-.53	1.48	2.88	-.81	1.10	2.79	-1.14	.81
18	3.30	-1.04	1.06	3.37	-.54	1.37	2.88	-.85	1.11	2.95	-.91	.98
19	3.31	-.72	1.25	3.18	-.85	1.12	2.88	-.79	1.09	2.49	-.73	.80
20	3.39	-.53	1.47	2.90	-.94	1.08	2.77	-.88	.95	2.99	-.73	1.00
21	3.07	-.57	1.20	2.72	-.95	.93	2.68	-.87	.83	3.14	-.72	1.22
22	2.49	-1.06	.77	2.56	-1.18	.90	2.51	-1.27	.65	3.35	-.63	1.41
23	2.58	-1.02	.91	3.08	-.63	1.26	2.84	-1.09	.88	2.84	-1.46	.82
24	3.06	-.60	1.29	3.05	-.52	1.28	3.08	-1.21	.93	4.10	-1.29	1.65
25	3.06	-.77	1.31	3.10	-.89	1.16	3.14	-1.52	.88	4.28	-.46	2.01
26	3.28	-.75	1.25	3.43	-1.07	1.19	3.56	-1.31	1.16	4.43	-.62	1.86
27	3.37	-.89	1.27	3.73	-1.07	1.39	3.80	-1.18	1.31	3.74	-1.15	1.29
28	3.54	-1.20	1.14	3.43	-1.33	1.13	4.41	-.99	1.59	3.50	-1.27	1.06
29	3.69	-1.21	1.20	3.80	-1.35	1.14	3.61	-1.28	1.28	3.03	-1.57	.67
30	3.85	-1.19	1.28	3.67	---	---	3.40	-1.59	.93	3.02	-1.57	.58
31	---	---	---	3.83	-1.31	1.29	3.09	-1.46	.76	---	---	---
MONTH	4.61	-1.21	1.26	---	---	---	4.41	-1.64	1.05	---	---	---

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	2.69	-1.52	.61	2.33	-.86	.82	2.41	-.56	.81	2.40	-2.17	-.02
2	2.89	-.71	.91	2.82	-.15	1.23	2.88	-.16	1.35	1.21	-1.63	.01
3	2.19	-1.14	.49	3.07	-.42	1.56	2.65	-1.87	.46	2.04	-1.22	.62
4	2.76	-.77	.97	2.84	-.32	1.34	1.96	-1.57	.59	2.45	-1.21	.70
5	2.97	-.25	1.42	2.78	-.66	1.20	1.67	-2.82	-.34	2.81	-1.85	.61
6	2.79	-.66	1.23	2.65	-.86	.82	1.54	-2.84	-.19	2.66	-2.08	.77
7	2.61	-.87	.92	2.74	-1.11	.87	1.92	-2.23	-.23	3.56	-1.00	1.26
8	2.88	-1.02	.93	2.91	-1.22	.84	2.43	-2.18	.35	3.75	-1.14	1.23
9	3.23	-.69	1.40	2.94	-1.28	.78	3.10	-1.43	.72	3.91	-1.25	1.41
10	3.19	-.69	1.39	2.95	-1.36	.84	4.67	-1.41	1.69	4.31	-.94	1.55
11	3.32	-.62	1.39	3.16	-1.18	.84	7.27	1.97	4.62	3.71	-1.40	1.13
12	3.24	-.81	1.21	3.11	-1.56	.87	5.79	1.12	3.31	3.36	-1.42	.96
13	3.18	-.98	1.02	3.28	-1.41	1.17	5.28	.21	2.87	3.68	-.64	1.54
14	3.16	-1.13	.98	2.59	-1.87	.35	5.25	.49	2.83	3.96	-.45	1.61
15	3.19	-1.10	1.00	2.95	-1.30	.66	4.22	-.67	1.71	3.76	-1.07	1.34
16	3.27	-.95	1.12	2.54	-1.53	.46	3.11	-1.11	1.08	2.87	-.64	1.04
17	2.76	-1.58	.59	2.80	-1.44	.71	3.11	-1.11	1.19	3.36	-.93	1.39
18	3.01	-.84	.99	2.64	-1.35	.81	2.68	-1.78	.37	1.94	-2.04	.13
19	3.34	-.81	1.22	2.77	-1.48	.89	2.87	-1.43	.94	2.07	-2.12	.08
20	3.15	-.97	1.32	2.99	-1.38	.94	3.40	-2.07	.87	2.26	-2.04	.00
21	2.74	-1.47	.94	3.08	-1.47	.93	2.00	-2.45	.10	2.65	-1.87	.69
22	2.66	-1.47	.79	3.29	-1.32	.99	3.39	-1.56	.91	3.71	-.80	1.30
23	3.13	-1.48	1.01	3.66	-1.36	1.20	3.51	-1.24	1.03	2.66	-1.69	.57
24	3.13	-1.38	.94	4.09	-.91	1.77	3.04	-2.80	-.18	3.37	-1.09	1.18
25	3.34	-1.58	.88	4.45	-.65	1.73	2.55	-2.37	.29	2.58	-2.05	.18
26	3.22	-1.64	.68	3.99	-.79	1.52	1.86	-2.54	-.43	2.74	-1.73	.35
27	2.91	-1.85	.51	3.28	-1.20	1.01	2.21	-2.10	-.03	2.86	-.95	1.01
28	3.15	-1.62	.74	3.14	-1.07	.97	2.08	-1.39	.38	2.47	-.97	.79
29	3.15	-1.35	.82	3.01	-.95	.99	2.14	-1.26	.57	2.15	-2.34	-.01
30	2.76	-1.10	.74	2.31	-1.29	.55	2.03	-.86	.62	.60	-1.96	-.68
31	2.71	-.67	.93	---	---	---	2.84	-.25	1.35	1.76	-.37	.71
MONTH	3.34	-1.85	.97	4.45	-1.87	.99	7.27	-2.84	.96	4.31	-2.34	.76

HUDSON RIVER BASIN

01376304 HUDSON RIVER SOUTH OF HASTINGS-ON-HUDSON, NY--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	2.92	-1.17	.74	3.35	.20	1.75	3.79	.71	2.40	3.21	-1.12	1.29
2	2.54	-.88	1.06	2.69	-.64	.86	4.06	.22	2.31	3.31	-1.51	1.10
3	3.36	-.75	1.32	2.53	-.73	.95	3.73	-.72	1.70	3.72	-1.58	1.17
4	2.56	-1.81	.39	4.22	-.60	1.88	3.44	-1.21	1.26	3.73	-1.73	1.13
5	2.99	-1.71	.95	4.83	.29	2.65	4.16	-1.14	1.54	3.90	-1.76	1.01
6	3.01	-1.49	.79	3.87	-.40	1.75	4.64	-1.13	1.65	3.91	-1.67	1.11
7	3.40	-1.20	1.12	3.26	-1.21	1.08	4.52	-.99	1.72	3.76	-1.64	.98
8	3.13	-1.29	.91	3.45	-1.58	.91	4.20	-.97	1.47	3.69	-1.40	1.03
9	3.05	-1.54	.77	3.08	-1.72	.71	4.16	-1.00	1.42	3.57	-1.45	.82
10	3.04	-1.48	.71	3.78	-1.84	.86	4.30	-.50	1.88	3.42	-1.31	1.15
11	2.75	-1.46	.75	3.62	-1.97	.62	4.41	-.14	1.83	3.70	-.86	1.16
12	4.00	.04	2.07	2.29	-2.00	.12	3.74	.03	1.66	3.03	-.61	1.53
13	4.58	-1.17	1.47	4.43	-1.23	2.05	3.05	-.21	1.62	3.55	-.47	1.55
14	2.15	-1.38	.27	5.93	-3.96	-.16	3.30	-.17	1.59	2.98	-.33	1.51
15	2.13	-1.13	.62	-.18	-3.52	-1.79	3.04	-.21	1.57	3.12	-.40	1.55
16	2.96	-1.10	1.23	1.38	-1.54	-.05	3.32	-.09	1.85	2.76	-.74	1.21
17	2.44	-1.79	.16	1.66	-1.82	.09	3.66	-.03	1.88	3.11	-.90	1.17
18	2.14	-1.89	.45	1.44	-1.82	-.10	2.79	-1.03	1.08	3.26	-.88	1.18
19	2.22	-1.65	.51	2.27	-.93	.81	3.36	-.61	1.31	3.57	-.48	1.49
20	2.99	-.87	1.11	2.29	-1.48	.54	3.34	-.91	1.21	3.76	-.54	1.60
21	3.36	-1.06	1.16	2.27	-1.46	.52	3.63	-.84	1.31	3.65	-.82	1.31
22	3.33	-.25	1.72	2.13	-1.71	.37	3.78	-.65	1.65	3.40	-1.03	1.13
23	2.68	-1.07	.85	2.45	-1.79	.31	3.20	-1.23	.92	3.37	-1.08	.99
24	1.65	-1.79	-.05	2.83	-1.43	.73	3.23	-.94	1.01	3.47	-1.11	1.03
25	2.09	-1.94	-.08	2.82	-1.21	.85	3.30	-.73	1.20	3.39	-1.05	.93
26	2.12	-1.00	.60	2.76	-1.28	.67	3.27	-.74	.96	3.08	-1.40	.71
27	2.45	-.70	1.01	2.99	-1.02	.79	3.41	-.67	1.26	2.86	-1.26	.63
28	3.10	.12	1.45	2.99	-.66	1.11	3.95	.01	1.89	2.72	-1.31	.91
29	---	---	---	3.11	-.33	1.45	3.59	-.25	1.63	2.95	-1.40	.83
30	---	---	---	3.50	.23	1.83	3.35	-.58	1.57	2.76	-1.71	.71
31	---	---	---	3.70	.67	1.97	---	---	---	3.68	-1.35	1.27
MONTH	4.58	-1.94	.86	5.93	-3.96	.84	4.64	-1.23	1.54	3.91	-1.76	1.14
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	3.48	-1.28	1.37	3.42	-1.25	1.04	3.43	-.91	1.17	3.17	-.69	1.31
2	3.55	-1.37	1.08	3.68	-.99	1.28	3.65	-.71	1.39	3.43	-.67	1.42
3	3.49	-1.62	.94	3.55	-1.06	1.25	3.17	-.89	1.14	3.37	-.36	1.51
4	3.60	-1.29	1.02	3.40	-1.02	1.11	2.87	-1.06	1.00	2.86	-.93	1.01
5	3.71	-1.17	1.17	3.41	-1.01	1.09	2.75	-1.16	.89	3.02	-.75	1.17
6	3.29	-1.24	1.01	3.29	-.90	1.16	3.19	-1.14	1.00	2.94	-.61	1.26
7	3.17	-1.23	1.00	3.18	-.85	1.09	3.20	-.49	1.39	2.90	-.64	1.05
8	3.17	-1.23	.95	2.98	-.96	1.11	2.82	-.81	1.03	2.93	-.48	1.14
9	3.27	-.91	1.12	3.00	-.72	1.19	2.51	-.83	.92	3.16	-.20	1.39
10	2.90	-.85	1.02	2.88	-.62	1.21	2.55	-.77	.96	3.04	-.64	1.34
11	2.62	-.81	.97	2.74	-.74	1.15	2.73	-.58	1.11	2.37	-1.24	.65
12	2.61	-.81	1.03	2.77	-.52	1.22	2.91	-.40	1.25	2.99	-1.07	.90
13	2.55	-.86	.98	2.90	-.56	1.24	3.16	-.50	1.30	2.99	-1.34	.92
14	2.58	-.98	.93	3.03	-.71	1.05	3.37	-.73	1.31	3.07	-1.56	.84
15	3.02	-.85	1.06	2.78	-1.19	.92	3.51	-.88	1.32	3.37	-1.60	.83
16	2.68	-1.25	.81	3.19	-.94	1.00	3.57	-.97	1.30	3.73	-1.64	.96
17	2.97	-1.21	.76	3.45	-1.22	.99	3.81	-.88	1.46	4.17	-1.00	1.54
18	3.08	-1.26	.80	3.48	-1.10	1.15	3.93	-.94	1.48	3.96	-1.12	1.41
19	3.03	-1.39	.74	3.96	-1.00	1.38	3.80	-.84	1.52	3.58	-1.22	1.10
20	3.41	-1.31	.94	3.65	-1.06	1.33	3.78	-.96	1.40	3.49	-1.25	1.08
21	3.58	-.98	1.12	3.38	-1.19	1.07	3.62	-1.04	1.22	3.32	-1.00	1.13
22	3.16	-.89	1.13	3.17	-1.21	1.01	3.59	-.97	1.30	3.09	-.76	1.19
23	3.12	-1.48	.71	3.16	-1.30	.97	3.32	-1.00	1.23	3.28	-.51	1.36
24	3.12	-1.25	.94	3.10	-1.32	.94	3.20	-.86	1.20	2.74	-.94	.98
25	3.21	-1.26	1.01	2.98	-1.35	.96	2.84	-1.02	.98	3.00	-.82	1.14
26	2.99	-1.24	.97	3.13	-.90	1.26	2.91	-1.01	.93	3.29	-.67	1.53
27	2.96	-1.56	.87	3.26	-.68	1.36	3.09	-.86	1.09	3.47	-.62	1.32
28	3.24	-1.15	1.16	3.27	-.91	1.22	3.17	-.80	1.20	2.31	-1.49	.57
29	3.21	-1.32	1.08	3.48	-.71	1.36	3.21	-.91	1.07	2.52	-1.38	.69
30	3.21	-1.28	1.05	3.50	-.72	1.39	3.21	-.86	1.19	2.97	-1.22	1.00
31	---	---	---	3.24	-.87	1.18	3.43	-.76	1.28	---	---	---
MONTH	3.71	-1.62	.99	3.96	-1.35	1.15	3.93	-1.16	1.19	4.17	-1.64	1.12

HUDSON RIVER BASIN

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01376304 HUDSON RIVER SOUTH OF HASTINGS-ON-HUDSON, NY--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	3.09	-1.01	1.14	3.38	-1.60	.86	3.17	-1.23	.86	2.19	-2.46	-.11
2	2.94	-.86	1.07	2.06	-2.34	-.10	3.36	-1.05	1.02	2.80	-1.41	.57
3	2.77	-1.12	.76	3.11	-1.03	.88	3.30	-1.11	.96	2.72	-1.57	.88
4	2.67	-1.22	.67	2.73	-1.26	.73	3.49	-.68	1.36	4.82	-.65	2.35
5	2.47	-1.71	.44	3.38	-.63	1.23	3.85	-.66	1.83	2.05	-2.68	-.19
6	2.48	-1.27	.58	3.00	-.94	1.07	3.65	-.07	1.72	1.03	-2.11	-.41
7	2.29	-1.24	.43	2.32	-1.39	.59	3.63	-1.26	1.19	2.30	-1.39	.60
8	2.18	-1.20	.45	2.28	-1.72	.61	3.23	-1.27	1.20	3.40	-2.01	.88
9	3.41	-.15	1.42	2.31	-1.80	.53	3.30	-1.25	1.22	1.18	-2.67	-.83
10	2.47	-1.29	.69	2.68	-1.74	.76	3.76	-1.29	1.63	.81	-3.40	-1.20
11	3.18	-1.10	1.15	3.18	-1.66	1.07	4.24	-.83	1.42	2.20	-2.48	.02
12	3.89	-.77	1.80	3.23	-1.68	.72	3.68	-1.67	.95	---	1.66	---
13	3.18	-1.66	.91	3.29	-2.02	.82	3.79	-1.63	1.21	3.27	-.77	1.19
14	3.23	-1.68	.92	3.58	-1.50	.94	4.71	-.54	1.86	3.53	-.32	1.47
15	3.64	-1.46	1.05	3.36	-1.68	.74	4.32	-.78	1.76	2.44	-1.74	.31
16	3.58	-1.58	1.01	3.06	-1.98	.54	4.44	-.09	2.08	.85	-2.72	-.87
17	3.90	-1.36	1.25	3.16	-1.33	.85	4.50	.04	2.27	1.98	-1.25	.41
18	3.52	-1.12	1.13	2.69	-1.43	.50	3.52	-.96	1.23	2.19	-2.77	-.15
19	3.33	-1.32	.90	3.50	-.20	1.52	2.77	-.98	1.06	.48	-2.25	-.79
20	3.58	-.65	1.43	3.11	-2.35	.58	2.41	-.73	.91	.99	-1.59	-.33
21	3.64	-.57	1.61	1.61	-1.60	-.12	3.33	-1.10	1.71	1.53	-1.50	.07
22	1.97	-1.55	.12	1.49	-1.75	.02	.89	-2.47	-.70	1.21	-2.59	-.59
23	1.97	-1.26	.30	1.83	-1.27	.47	1.59	-1.38	.32	1.69	-2.55	.20
24	2.42	-1.24	.80	2.59	-1.39	.95	2.56	-1.16	1.06	2.47	-1.51	.49
25	2.03	-1.32	.45	2.65	-1.39	1.08	2.86	-.45	1.25	2.33	-1.66	.54
26	3.54	-1.12	1.70	2.69	-1.36	.64	1.87	-2.97	-.37	3.05	-1.00	1.07
27	3.79	.04	2.07	3.59	-1.39	1.36	.70	-3.53	-1.11	3.05	-1.64	.78
28	3.59	-.62	1.57	5.01	.32	2.49	1.85	-2.38	-.23	3.64	-1.06	1.36
29	2.94	-.88	1.13	2.90	-1.03	.95	2.82	-1.93	.70	2.76	-2.06	.54
30	3.31	-.70	1.37	3.05	-1.21	.75	2.66	-2.20	.14	2.70	-1.82	.30
31	4.14	-.08	2.02	---	---	---	2.32	-2.19	-.07	2.87	-1.34	.71
MONTH	4.14	-1.71	1.04	5.01	-2.35	.80	4.71	-3.53	.98	---	-3.40	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	2.81	-1.63	.60	2.45	-1.90	.31	3.21	-1.19	.85	3.38	-1.00	1.09
2	2.61	-1.15	.64	3.65	-1.56	.94	3.17	-.96	1.20	2.44	-1.36	.58
3	2.73	-2.39	.37	4.69	-.07	2.65	3.32	-.58	1.19	2.14	-1.47	.53
4	1.65	-1.83	-.07	3.57	-.69	1.12	2.50	-1.36	.75	2.53	-1.23	.83
5	2.18	-1.43	.60	2.47	-1.27	.54	2.69	-.91	1.08	3.05	-.54	1.47
6	2.39	-1.41	.70	2.21	-.87	.76	2.91	-.96	1.20	2.42	-.91	.84
7	2.66	-1.29	.56	2.85	-.65	1.11	3.03	-1.07	.79	2.89	-1.41	.61
8	2.78	-1.74	.75	2.27	-1.11	.65	2.51	-1.83	.43	3.39	-.68	1.43
9	3.81	-.52	1.54	2.19	-1.63	.37	3.01	-1.45	.71	3.26	-.86	1.17
10	2.58	-1.67	.53	3.24	-.78	1.16	2.61	-1.38	.76	2.70	-1.29	.76
11	3.06	-1.44	.89	2.40	-1.50	.51	2.17	-1.86	.17	3.41	-1.23	.92
12	3.34	-.73	1.28	2.90	-1.46	.69	2.75	-1.85	.38	2.62	-.89	.97
13	3.22	-.72	1.23	2.81	-1.12	.89	3.18	-1.21	.97	2.32	-1.69	.28
14	2.17	-2.65	-.35	2.89	-1.02	.91	3.06	-.84	1.00	2.43	-1.52	.27
15	2.23	-1.73	.36	3.10	-.70	1.21	2.85	-.79	.91	3.08	-1.38	.81
16	2.56	-1.58	.31	3.05	-.97	.99	2.87	-.34	1.15	3.23	-.69	1.19
17	2.07	-.69	.68	1.79	-1.72	-.07	2.64	-.56	.96	3.12	-.58	1.25
18	1.83	-1.12	.17	2.08	-1.07	.67	2.39	-.57	.74	3.28	-.34	1.51
19	1.78	-.69	.41	2.66	-.89	.54	2.46	-.48	.97	3.45	-.35	1.66
20	1.99	-1.08	.40	1.74	-.69	.36	2.39	-1.00	.70	3.69	-.46	1.79
21	1.99	-.93	.63	2.40	-.22	1.04	2.64	-1.27	.82	3.60	-.91	1.51
22	2.24	-1.10	.67	3.32	-1.01	.96	2.72	-1.62	.72	3.66	-1.25	1.33
23	3.69	-1.05	1.79	2.66	-1.20	.80	3.41	-1.90	.80	4.03	-1.15	1.49
24	4.17	-.14	1.88	3.29	-.84	1.42	3.34	-2.05	.71	4.20	-1.22	1.46
25	2.02	-2.07	.12	3.61	-.91	1.38	4.43	-1.72	1.20	4.22	-.91	1.59
26	2.80	-1.78	.40	3.59	-1.42	1.03	4.20	-1.46	1.43	4.26	-.99	1.49
27	1.59	-2.79	-.46	4.21	-1.27	1.44	3.96	-1.41	1.19	3.68	-1.53	1.02
28	2.42	-2.88	-.25	4.07	-1.11	1.48	3.67	-1.74	.79	3.43	-1.34	1.03
29	---	---	---	3.89	-1.32	1.24	3.38	-1.59	.80	3.48	-1.32	.88
30	---	---	---	3.71	-1.59	.93	3.38	-1.39	.91	2.96	-1.52	.75
31	---	---	---	3.19	-1.54	.64	---	---	---	2.60	-1.50	.71
MONTH	4.17	-2.88	.58	4.69	-1.90	.92	4.43	-2.05	.88	4.26	-1.69	1.07

HUDSON RIVER BASIN

01376304 HUDSON RIVER SOUTH OF HASTINGS-ON-HUDSON, NY--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	2.53	-1.26	.84	2.45	-1.05	.91	2.65	-.73	.91	2.56	-1.11	.80
2	2.44	-1.24	.61	2.60	-.88	.92	2.76	-.72	.97	2.90	-1.18	.87
3	2.25	-1.44	.51	2.22	-1.07	.73	2.96	-.77	1.04	3.08	-1.26	.83
4	2.50	-1.30	.68	2.71	-.96	.83	3.15	-.89	1.04	3.57	-.94	1.29
5	2.73	-1.06	.90	2.85	-1.02	.90	2.79	-.99	.94	4.01	-.78	1.53
6	2.89	-1.12	.86	2.95	-1.10	.89	3.37	-1.51	1.00	3.46	-1.24	1.24
7	2.73	-1.14	.80	3.49	-1.08	.95	3.31	-1.21	1.07	3.28	-1.47	.98
8	2.83	-1.28	.74	3.27	-.93	1.04	3.38	-1.06	1.13	3.14	-1.58	.82
9	3.09	-1.12	.83	3.48	-.93	1.13	3.24	-1.03	1.16	3.27	-1.43	.94
10	3.06	-1.30	.74	3.36	-1.10	1.07	2.98	-1.33	.82	3.25	-1.29	.87
11	3.05	-1.19	.75	3.12	-1.33	.84	2.90	-1.56	.75	2.94	-1.43	.65
12	2.97	-1.02	.90	3.06	-1.26	.91	2.93	-1.48	.80	2.71	-1.45	.54
13	3.00	-1.17	.85	3.06	-1.28	.90	3.06	-1.20	.88	2.76	-1.31	.72
14	3.04	-1.05	.88	2.92	-1.37	.98	2.76	-1.27	.79	2.93	-1.00	.97
15	2.68	-1.41	.66	3.16	-.96	1.19	2.64	-1.58	.60	3.14	-.89	1.16
16	2.60	-1.48	.75	3.03	-1.07	1.08	2.78	-1.43	.73	3.16	-.87	1.19
17	2.69	-1.37	.81	3.06	-1.22	1.03	2.95	-1.37	---	3.08	-.90	1.13
18	2.84	-1.50	.82	3.39	-1.05	1.24	3.43	-.87	1.28	2.93	-1.28	.98
19	2.89	-1.67	.72	3.35	-1.14	1.17	3.26	-1.35	1.00	3.16	-1.04	1.09
20	3.21	-1.55	.89	3.31	-1.43	.97	3.71	-1.07	1.24	2.90	-1.37	.89
21	3.48	-1.41	1.04	3.39	-1.44	.93	3.48	-.89	1.31	2.75	-1.26	.83
22	3.38	-1.63	.94	3.32	-1.38	.99	3.49	-.98	1.24	3.94	-1.13	1.41
23	3.55	-1.48	.95	3.08	-1.45	.79	3.74	-.60	1.70	3.93	.00	1.96
24	3.80	-1.20	1.21	3.25	-1.44	.90	3.28	-.92	1.24	2.95	-.65	1.15
25	3.57	-.81	1.37	3.34	-1.16	1.08	2.99	-1.07	1.08	3.04	-.48	1.22
26	3.38	-1.11	1.07	3.27	-1.03	1.21	2.76	-1.05	.93	3.21	-.14	1.50
27	3.28	-1.13	1.13	3.21	-.94	1.11	2.52	-.97	.88	3.43	.50	1.81
28	3.23	-.92	1.02	3.13	-.77	1.21	2.72	-.64	1.03	3.06	.01	1.47
29	3.02	-1.02	1.09	2.43	-1.16	.82	2.24	-.79	.79	2.40	-.89	1.07
30	2.59	-.97	.99	2.44	-.85	.92	2.29	-.82	.69	1.97	-1.43	.38
31	---	---	---	2.41	-.91	.82	2.77	-.71	.86	---	---	---
MONTH	3.80	-1.67	.88	3.49	-1.45	.98	3.74	-1.58	---	4.01	-1.58	1.08

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	3.28	-.58	1.35	3.10	-1.64	1.18	3.62	-1.87	1.26	2.96	-.76	1.27
2	3.33	-.50	1.41	3.54	-.76	1.63	1.42	-2.00	-.08	3.29	-.49	1.50
3	3.32	-.62	1.44	3.87	-.89	1.76	3.23	-1.85	1.22	4.15	.07	2.10
4	3.34	-.62	1.52	3.05	-.92	1.13	3.36	-.85	1.12	3.25	-.43	1.43
5	3.70	-.68	1.57	2.82	-1.81	.78	3.00	-1.57	1.06	2.68	-1.37	.47
6	3.89	-.22	1.97	3.28	-1.26	1.11	3.39	-1.17	1.10	1.74	-2.25	-.24
7	4.23	-.20	2.13	3.87	-1.31	1.66	2.94	-1.50	.77	4.15	-1.31	1.19
8	3.84	-.49	1.61	3.27	-1.24	1.04	2.94	-1.39	.69	4.66	.28	2.63
9	3.31	-.92	1.27	2.64	-1.56	.53	3.51	-.89	1.33	3.30	-.54	1.52
10	3.41	-.87	1.30	3.33	-1.24	1.17	2.51	-1.52	.42	3.32	-.72	1.28
11	3.30	-.80	1.22	4.75	-1.18	1.63	1.43	-2.59	-.61	2.91	-.80	1.20
12	2.87	-1.04	.91	5.26	-1.39	1.16	2.08	-1.73	.14	3.50	.10	1.82
13	2.87	-.95	.97	3.08	-.43	1.13	---	-1.04	---	3.30	-.76	1.18
14	3.09	-.45	1.40	4.51	.54	2.87	2.67	-.67	.90	2.71	-.93	1.07
15	2.68	-.75	.76	5.16	-.64	2.33	2.22	-.83	.78	2.40	-1.56	.55
16	1.47	-1.64	-.11	2.29	-.91	.80	2.96	-.37	1.51	2.79	-1.33	.94
17	1.52	-1.66	-.12	2.44	-1.17	.91	3.12	-1.52	1.14	2.81	-1.32	.89
18	2.49	-.97	.93	2.89	-.81	1.18	2.64	-1.46	.67	2.74	-1.47	.75
19	2.43	-.93	.79	3.52	---	---	3.83	-1.48	1.62	4.13	-1.04	2.11
20	3.34	-.98	1.35	3.69	---	---	4.69	-.29	1.89	3.49	-.59	1.50
21	3.95	.05	2.30	4.25	-.56	1.87	3.23	-1.78	.40	4.54	.20	2.18
22	3.21	-.79	1.26	4.23	-1.19	1.47	2.70	-2.98	-.04	4.14	-.47	1.73
23	3.28	-1.05	1.18	4.12	-1.26	1.30	4.00	-1.40	1.24	3.62	-.77	1.39
24	3.51	-1.17	1.21	3.68	-1.60	1.06	3.79	-1.12	1.20	3.99	-.41	1.72
25	3.59	-1.32	1.10	4.07	-1.41	1.24	3.52	-1.26	1.01	3.05	-1.44	.48
26	3.82	-1.36	1.14	3.89	-1.15	1.35	2.93	-1.51	.70	2.40	-.87	.82
27	4.01	-1.14	1.46	4.03	-.67	1.53	2.48	-1.68	.45	4.56	.37	2.10
28	4.28	-.44	1.83	3.10	-1.95	.84	2.96	-1.22	1.01	2.27	-1.34	.09
29	2.92	-1.83	.50	3.45	---	---	2.44	-1.58	.50	2.32	-.97	.96
30	2.30	-1.91	.20	3.23	---	---	2.11	-1.47	.58	2.62	-.66	1.08
31	3.01	---	---	---	---	---	2.24	-1.31	.77	2.91	-.77	1.14
MONTH	4.28	---	---	5.26	---	---	---	-2.98	---	4.66	-2.25	1.25

HUDSON RIVER BASIN

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01376304 HUDSON RIVER SOUTH OF HASTINGS-ON-HUDSON, NY--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	2.72	-.98	.97	2.45	-1.21	.84	3.49	-.74	1.42	3.64	-1.17	1.26
2	2.91	-1.03	.92	3.14	-.97	1.28	3.35	-1.09	1.26	3.70	-.95	1.41
3	2.89	-.83	1.08	3.32	-1.92	.38	3.42	-1.04	1.29	4.02	-1.12	1.34
4	3.22	-1.03	1.11	1.04	-4.01	-1.38	3.34	-1.60	.89	4.20	-1.09	1.44
5	2.81	-1.34	.72	2.31	-2.82	-.18	3.81	-1.28	1.19	4.06	-1.25	1.27
6	2.09	-2.29	-.03	3.35	-1.60	.71	3.94	-1.13	1.26	3.97	-1.26	1.25
7	2.76	-1.81	.54	3.79	-.90	1.44	4.39	-.52	1.93	3.97	-1.35	.98
8	2.70	-1.28	.76	3.39	-1.40	.97	4.54	-.44	1.79	3.51	-1.29	1.01
9	2.69	-1.42	.77	2.02	-2.70	-.49	3.95	-.49	1.68	3.47	-1.39	1.02
10	2.31	-1.43	.49	1.82	-2.45	-.22	---	---	---	3.45	-1.17	1.19
11	2.97	-.72	1.16	2.26	-1.94	.14	2.16	-1.91	.35	3.24	-1.32	1.27
12	2.65	-1.74	.15	2.54	-1.36	.72	3.14	-1.11	1.20	3.03	-1.41	.91
13	2.03	-1.71	.12	3.21	-.78	1.12	3.32	-1.26	1.32	3.07	-1.06	1.08
14	2.55	-1.18	.85	---	---	---	3.59	-.92	1.47	3.40	-1.21	1.13
15	3.32	-.91	1.28	---	---	---	3.93	-1.31	1.42	3.35	-1.39	1.02
16	3.36	-1.01	1.32	---	---	---	5.11	.08	2.56	3.88	-1.26	1.34
17	3.81	-1.17	1.16	---	---	---	3.68	-.84	1.51	3.74	-1.03	1.34
18	3.10	-1.87	.58	---	---	---	3.71	-1.02	1.29	3.83	-.99	1.36
19	3.05	-2.07	.58	---	---	---	3.76	-1.03	1.38	3.92	-.79	1.51
20	3.38	-1.51	1.00	---	---	---	3.50	-.97	1.21	3.63	-.69	1.51
21	3.11	-1.30	.94	---	---	---	3.47	-1.10	.95	3.61	-.58	1.54
22	3.10	-1.14	.98	---	---	---	3.18	-1.18	.94	3.46	-.67	1.29
23	3.08	-.87	1.07	---	---	---	3.26	-.85	1.27	3.12	-.61	1.22
24	3.08	-1.15	1.05	---	---	---	2.94	-1.38	.60	2.67	-.71	1.01
25	2.36	-1.84	-.12	---	---	---	2.55	-.50	1.16	2.47	-.67	.98
26	1.89	-1.04	.49	2.87	-.93	.63	2.87	-.20	1.37	2.47	-.72	.98
27	2.71	-.44	1.01	1.62	-1.64	-.01	2.38	-.80	1.02	2.88	-.84	1.16
28	3.03	-1.55	1.31	1.73	-.97	.40	2.32	-1.04	.86	3.34	-.63	1.35
29	1.61	-1.59	-.05	2.63	-.32	1.26	3.05	-1.06	.93	3.68	-.59	1.58
30	---	---	---	2.80	-.71	1.20	3.72	-.75	1.45	3.66	-1.17	1.36
31	---	---	---	2.99	-.90	1.10	---	---	---	3.70	-1.44	1.14
MONTH	3.81	-2.29	.77	---	---	---	---	---	---	4.20	-1.44	1.23

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	3.70	-1.64	1.00	4.06	-1.38	1.29	4.07	-1.11	1.51	3.58	-1.07	1.30
2	3.71	-1.69	.97	4.14	-1.26	1.30	3.94	-1.10	1.46	4.22	-.13	1.92
3	4.06	-1.49	1.11	4.27	-.93	1.52	3.92	-1.09	1.35	3.50	-.86	1.47
4	3.83	-1.15	1.26	4.22	-.94	1.43	3.51	-1.16	1.21	3.26	-.27	1.54
5	3.83	-1.28	1.03	3.71	-1.26	1.13	3.11	-1.18	1.09	3.23	-.21	1.56
6	3.59	-1.44	.94	3.34	-1.28	1.15	3.00	-1.19	1.04	3.28	-.12	1.58
7	3.32	-1.38	1.04	3.22	-1.32	1.17	3.05	-.85	1.12	3.72	.40	1.99
8	3.27	-1.36	1.13	3.70	-.95	1.45	2.89	-.88	1.05	3.82	.27	1.95
9	3.15	-1.26	1.13	3.42	-.81	1.49	2.89	-.69	1.07	3.60	-.14	1.74
10	3.29	-1.28	1.20	2.98	-1.02	1.08	2.97	-.82	1.03	3.46	-.37	1.57
11	3.35	-1.23	1.15	---	---	---	3.20	-.92	1.04	3.51	-.63	1.44
12	3.59	-1.15	1.24	---	-1.39	---	3.33	-.82	1.17	4.19	-.41	1.96
13	3.64	-.90	1.34	3.35	-.86	1.67	3.77	-.66	1.57	4.26	.21	2.24
14	3.44	-1.07	1.17	3.53	-.98	1.23	3.26	-.80	1.32	3.85	-.29	1.81
15	3.48	-1.00	1.14	3.66	-.77	1.33	3.31	-.81	1.20	3.98	-.43	1.80
16	3.48	-1.12	1.09	3.27	-.77	1.27	3.32	-.78	1.28	3.59	-.76	1.49
17	3.35	-.92	1.14	2.98	-1.00	1.01	3.17	-.76	1.29	4.66	.38	2.46
18	3.56	-.97	1.19	3.24	-1.06	1.04	3.07	-.84	1.13	4.15	-.39	1.70
19	3.42	-.51	1.45	---	---	---	2.93	-1.01	1.10	3.92	-.18	1.83
20	3.42	-.60	1.38	---	---	---	---	---	---	3.63	-.18	1.64
21	3.46	-.27	1.47	---	---	---	2.97	-.81	1.08	3.59	-.45	1.52
22	3.33	-.24	1.69	---	---	---	3.06	-.91	1.09	4.02	-.45	1.73
23	3.41	-.88	1.32	---	---	---	3.44	-.79	1.30	4.10	-.34	1.90
24	3.18	-.37	1.52	---	---	---	3.45	-1.00	1.22	4.43	-.44	2.13
25	3.10	-.84	1.29	3.44	-.73	1.41	3.65	-1.01	1.34	3.92	-.94	1.65
26	2.95	-1.00	.97	3.77	-.73	1.51	3.72	-1.24	1.33	3.91	-1.06	1.50
27	3.17	-1.28	.95	3.56	-1.22	1.27	3.92	-1.26	1.35	3.81	-1.19	1.37
28	3.43	-1.40	1.00	3.67	-1.53	1.07	4.03	-1.13	1.50	4.21	-1.05	1.59
29	3.71	-1.33	1.24	3.92	-1.58	1.17	3.81	-1.19	1.36	3.74	-.94	1.32
30	4.02	-1.17	1.37	4.18	-1.27	1.39	3.67	-1.28	1.26	3.43	-1.16	1.03
31	---	---	---	4.24	-1.11	1.55	3.58	-1.19	1.22	---	---	---
MONTH	4.06	-1.69	1.20	---	---	---	---	---	---	4.66	-1.19	1.69

HUDSON RIVER BASIN

01376304 HUDSON RIVER SOUTH OF HASTINGS-ON-HUDSON, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1992 to current year.

CHEMICAL DATA: 1993 (c), 1994 (d), 1995 (b).

PESTICIDE DATA: 1994 (a).

ORGANIC DATA: OC--1993 (c), 1994 (d), 1995 (b).

NUTRIENT DATA: 1993 (c), 1994 (d), 1995 (b).

BIOLOGICAL DATA:

Phytoplankton--1993 (a).

SEDIMENT DATA: 1993-94 (c), 1995 (b).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1992 to current year.

WATER TEMPERATURES: May 1992 to current year.

INSTRUMENTATION.--Water-quality monitor provides 15-minute-interval readings.

REMARKS.--Water-quality samples were collected by boat during the period of fastest ebb current of tidal cycle in cross section in vicinity of the gage. Specific conductance and water temperature values associated with water-quality samples may fall outside the range observed for that day by the water-quality monitor due to differences in location and methods of data collection. Telephone temperature and specific conductance telemeter at station. Interruptions of record were due to malfunction of recording instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--SPECIFIC CONDUCTANCE: Maximum, 31,100 $\mu\text{S}/\text{cm}$, Dec. 11, 1992; minimum, 76 $\mu\text{S}/\text{cm}$, Jan. 30, 31, 1996.

WATER TEMPERATURES: Maximum, 28.5°C, July 27, Aug. 4, 5, 1995; minimum (water years 1993-96), 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--SPECIFIC CONDUCTANCE: **May to September 1992:** Maximum, 27,800 $\mu\text{S}/\text{cm}$, Aug. 28, 29; minimum, 1,050 $\mu\text{S}/\text{cm}$, May 8.**Water year 1993:** Maximum, 31,100 $\mu\text{S}/\text{cm}$, Dec. 11; minimum, 168 $\mu\text{S}/\text{cm}$, Nov. 28.**Water year 1994:** Maximum, 28,900 $\mu\text{S}/\text{cm}$, Nov. 28; minimum, 150 $\mu\text{S}/\text{cm}$, Apr. 4, 5.**Water year 1996:** Maximum, 27,500 $\mu\text{S}/\text{cm}$, Jan. 8; minimum, 76 $\mu\text{S}/\text{cm}$, Jan. 30, 31.WATER TEMPERATURES: **May to September 1992:** Maximum, 26.0°C, July 14.**Water year 1993:** Maximum, 27.5°C, July 12, 14; minimum, 0.0°C on many days during winter period.**Water year 1994:** Maximum, 28.0°C, Aug. 4; minimum, 0.0°C on many days during winter period.**Water year 1996:** Maximum recorded, 26.5°C, July 18, Aug. 23, 25; minimum, 0.0°C on many days during winter period.

REVISIONS.--The pesticide data published in the 1994 annual data report (WDR NY-94-1) are republished here because many of the method detection limits were revised after reevaluation of method performance. Revised method detection limits are listed after the NAWQA section Introduction.

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)
JUN 02...	0830	0.008	0.003	0.006

HUDSON RIVER BASIN

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01376304 HUDSON RIVER SOUTH OF HASTINGS-ON-HUDSON, NY--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	12900	6700	8310
4	---	---	---	---	---	---	---	---	---	9100	4160	5830
5	---	---	---	---	---	---	---	---	---	6690	3290	4580
6	---	---	---	---	---	---	---	---	---	8350	2150	3850
7	---	---	---	---	---	---	---	---	---	5340	1530	2620
8	---	---	---	---	---	---	---	---	---	5340	1050	2680
9	---	---	---	---	---	---	---	---	---	7480	2000	3630
10	---	---	---	---	---	---	---	---	---	7020	2460	4030
11	---	---	---	---	---	---	---	---	---	9530	3080	5080
12	---	---	---	---	---	---	---	---	---	10400	3710	6260
13	---	---	---	---	---	---	---	---	---	12300	3850	6570
14	---	---	---	---	---	---	---	---	---	12000	4610	6820
15	---	---	---	---	---	---	---	---	---	12200	4580	6570
16	---	---	---	---	---	---	---	---	---	10200	3670	5890
17	---	---	---	---	---	---	---	---	---	10500	3570	5550
18	---	---	---	---	---	---	---	---	---	11900	3880	5730
19	---	---	---	---	---	---	---	---	---	8990	3120	5190
20	---	---	---	---	---	---	---	---	---	10400	3690	6140
21	---	---	---	---	---	---	---	---	---	8630	3660	5750
22	---	---	---	---	---	---	---	---	---	12700	4170	7630
23	---	---	---	---	---	---	---	---	---	13700	5000	9800
24	---	---	---	---	---	---	---	---	---	18600	5620	10300
25	---	---	---	---	---	---	---	---	---	21000	7410	11800
26	---	---	---	---	---	---	---	---	---	18400	8230	13700
27	---	---	---	---	---	---	---	---	---	18100	7530	13600
28	---	---	---	---	---	---	---	---	---	19200	8700	13100
29	---	---	---	---	---	---	---	---	---	19700	10700	14000
30	---	---	---	---	---	---	---	---	---	20500	12600	15400
31	---	---	---	---	---	---	---	---	---	21700	14800	16800
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	21000	14000	15800	23300	16100	17800	19900	11900	14100	19700	12500	15400
2	17100	12500	14000	22200	16000	18300	16600	11600	13600	22600	12700	16300
3	15000	11400	12700	22400	15900	18400	16800	11000	13300	23400	13000	16200
4	13600	10600	11600	22500	16500	18800	17600	11000	13400	20300	12300	15200
5	12300	9580	11000	21700	16500	18700	16400	9860	12100	22600	13100	16300
6	14200	8480	10700	21500	16400	18400	17000	10000	12100	24200	13700	17500
7	10700	6340	8330	21100	14900	17200	17500	9980	12500	25300	12900	18100
8	7830	5430	6670	22400	14500	17200	20900	10600	14200	23900	11400	17300
9	8940	4260	5690	22100	15300	17600	20300	11100	14800	21700	12100	---
10	11600	3970	5500	21800	13800	16500	22300	11200	14900	22900	12400	16800
11	11400	3910	6200	22100	12800	15900	20200	11400	14800	22200	13800	16100
12	13000	4250	6870	23600	13900	16900	20200	10900	13300	17400	14200	15600
13	13300	4300	6830	21800	14400	16800	21000	11900	14200	18900	14000	16100
14	14100	4940	7270	24600	14900	17700	21400	12200	15900	---	14000	16100
15	12400	4780	7230	24600	15500	17900	20800	13200	16100	19300	14000	16000
16	12200	5660	7870	23100	14600	17300	19600	12500	15500	19500	13700	15700
17	12100	5810	8140	21300	14600	16500	19000	12200	15500	20700	13400	15800
18	14200	6140	9330	20400	12800	15500	19300	11700	15600	20700	13100	15700
19	14900	7650	10200	18600	12500	14600	20700	11600	15300	17600	12800	15000
20	14100	7030	10500	16400	11600	13800	19700	11300	14300	20900	13300	15700
21	15700	5980	9880	16400	10800	13200	20400	11100	14100	23000	14200	17300
22	13600	5680	9030	18800	10100	13800	21400	10800	14400	24400	---	18000
23	15400	6880	10500	22700	11600	16100	23100	12700	16500	19800	13600	15800
24	18200	---	---	21400	11200	16400	24800	13100	17500	24600	13500	17800
25	19000	8770	14200	22000	10700	15200	23800	14600	17500	23300	16000	19000
26	20600	9490	14500	24700	10000	15600	24800	15200	18700	22900	15600	18500
27	20700	12000	15200	23500	12800	16900	24600	16000	19000	20400	14300	16400
28	22600	12100	15500	20600	13100	15700	27800	16100	19800	19000	12800	15300
29	23200	13800	16900	20800	13000	15900	27800	15100	19000	16800	10900	13700
30	23400	15400	17800	20300	13000	15500	21800	13800	17300	16600	10600	13100
31	---	---	---	19600	13000	15700	20700	13500	16500	---	---	---
MONTH	23400	---	---	24700	10000	16500	27800	9860	15300	---	---	---

HUDSON RIVER BASIN

01376304 HUDSON RIVER SOUTH OF HASTINGS-ON-HUDSON, NY--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	18300	11000	13500	17100	8000	11700	9180	1600	4000	15000	2450	10100
2	21000	11400	14600	22000	7970	13900	14500	3490	7770	19000	9370	12000
3	17800	10500	13100	25500	9770	17500	13800	2760	5940	20200	3600	11400
4	20100	11100	14200	20500	8250	14100	14000	3080	6910	21900	4360	10600
5	19600	12200	16200	19100	8840	13800	10700	3640	6030	15100	1750	8240
6	20000	12500	16500	17400	9270	12400	15400	4800	8500	16800	3670	9810
7	21300	11800	15900	17300	9990	12500	13600	6470	9210	22500	5510	11100
8	21000	10900	15400	19700	11300	13600	17300	7640	11500	23500	4490	10100
9	24400	12900	17700	17700	12300	14400	19200	8340	12700	18000	2800	8250
10	23100	15000	18100	18600	12600	15000	22300	10600	14600	15100	3000	7760
11	20300	15000	17000	18700	11600	14800	31100	18600	23500	8320	2210	4250
12	19000	14300	16100	17100	12100	14100	22900	12100	15600	6240	1740	3350
13	17500	13800	15400	19900	9460	14400	16600	11600	13700	8820	2060	4300
14	18000	13400	15000	13800	9210	11400	17900	10900	13900	8680	2710	4990
15	18700	13200	14900	13600	9170	10800	14100	8670	12100	8930	2510	5210
16	20500	12700	15100	11800	7670	9710	12800	9160	10700	10000	2480	5220
17	16500	11300	13600	12400	8030	9820	11600	8410	10100	12500	3110	6500
18	19800	12200	14400	12400	7740	9330	11400	6810	8340	8290	2410	4950
19	17500	11600	14200	13400	7650	9680	10500	5740	7980	13600	2880	6900
20	19800	11600	14800	15500	6760	10600	13700	5140	7600	14900	4040	7610
21	17200	12500	14500	16500	8650	11300	7780	3180	5340	17600	6040	10500
22	16100	11000	13300	16500	7720	11200	11500	3150	6070	19400	7760	11700
23	17600	11100	13800	14900	6580	9750	11900	3540	5930	12500	6630	8860
24	17800	10800	13400	10900	4880	7360	6090	1150	3150	14500	7680	10000
25	16400	9790	11900	8560	3070	5720	9190	862	3770	12800	4600	6660
26	15900	8890	11200	5600	2400	3810	4770	1350	2440	7340	4090	5440
27	14200	8000	10300	3840	249	2330	8570	1420	3570	10900	3850	6490
28	15600	8180	10600	4390	168	1800	10200	2400	5710	9820	3390	5990
29	16900	8060	10900	6050	1100	2830	14000	4250	7590	7160	2790	4450
30	14600	8210	10100	5420	1200	2770	13500	5160	8850	5370	2930	4210
31	15400	8550	10400	---	---	---	16500	4550	10900	15200	4090	8820
MONTH	24400	8000	14100	25500	168	10400	31100	862	8840	23500	1740	7610

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	15000	4120	8470	21000	12000	16200	1050	---	---	5420	633	2840
2	15800	6470	10300	22000	9120	14500	705	---	---	7270	890	3190
3	21200	10100	15000	21200	9830	15000	304	---	---	9430	672	2780
4	15700	9510	11700	27200	10700	17300	292	---	---	7270	494	2330
5	19600	9950	14300	28600	13600	21800	561	---	---	7740	370	1750
6	17600	10300	13700	22000	14300	17000	659	---	---	7020	301	1620
7	19800	10700	15200	19600	15300	17100	638	---	---	6160	180	1160
8	18500	11900	14600	18300	11300	16400	687	---	---	6820	---	---
9	17000	10600	13800	18300	12300	15800	556	---	---	5250	337	1420
10	17700	11100	13600	17200	13600	15500	1000	---	---	5360	570	2460
11	15400	10100	12800	18700	11500	15000	1100	---	---	8370	2000	3960
12	23100	11900	15300	15100	12000	13800	332	---	---	9300	2720	4980
13	22100	9150	13800	21500	13500	16500	521	---	---	9160	3170	5710
14	12900	9030	10800	26500	8890	14300	2440	---	---	14700	3620	7760
15	17200	8650	12500	12900	8210	10700	4770	339	1870	17500	4430	8210
16	19700	10600	14500	20100	9780	14200	3890	1300	2310	13300	4830	8880
17	18100	8910	11900	18100	7780	13900	4440	1240	2280	13600	5600	9630
18	19000	7990	12900	15300	9390	12000	2110	415	1100	18700	6370	10400
19	17600	10300	13000	19300	10600	14300	1310	---	---	19100	8750	12700
20	20700	11400	14600	18200	10700	14100	687	---	---	18400	9080	13600
21	19800	12000	14900	17300	11000	13600	1980	---	---	19800	9540	12900
22	20600	13600	16100	16200	10900	13200	865	---	---	19800	11300	13500
23	18700	11300	13700	15600	10300	12800	1430	---	---	18500	11900	13600
24	15000	9200	11700	15800	9680	12300	900	---	---	18800	12200	14200
25	13000	9550	11000	16600	9010	11700	940	---	---	19400	12200	14100
26	19500	10800	13200	13500	6710	9960	870	---	---	18000	11600	13400
27	17500	10900	14300	11500	5230	8020	1180	---	---	16100	11400	13000
28	21000	11500	15100	9160	3740	6000	3690	866	1730	17900	12300	14200
29	---	---	---	6650	2120	4040	3740	809	1990	18500	11500	14000
30	---	---	---	3810	---	---	4790	1460	2540	19300	10900	13700
31	---	---	---	738	---	---	---	---	---	24000	12000	15900
MONTH	23100	4120	13300	28600	---	---	4790	---	---	24000	---	---

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SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	20600	11100	15500	24000	14700	17500	25100	18500	20800	19300	13600	15400
2	20700	12300	15100	25000	15600	18400	25900	19100	21400	17800	13600	15400
3	19900	12500	14900	24000	15500	18600	25900	18400	21000	18400	14200	15600
4	20300	12700	14900	23700	15600	17900	24200	18700	20700	17800	13100	14500
5	20600	12600	15100	22400	14800	17700	23300	18300	20200	17700	12500	14700
6	21100	11700	14500	23300	15700	18000	23100	19000	20800	17700	13300	15200
7	19400	12300	14600	22200	15500	17700	24700	17700	20500	18400	12600	14600
8	17000	12100	14000	20600	15400	17400	24400	16500	19700	18700	13300	15000
9	19300	10900	14300	20500	14600	17600	26400	17500	20400	19300	13600	15700
10	17500	10900	13600	21800	14100	17900	25200	17600	20400	18200	13000	15200
11	17400	10200	13400	22200	13800	18400	23800	17000	20100	17600	11700	13500
12	18200	10600	14200	22300	13200	18800	26300	17400	21900	20700	12000	15200
13	19800	10400	14500	22900	14600	19000	27700	18400	21700	19600	13400	15800
14	21800	10600	14300	24800	13500	17500	25100	16400	20400	19600	14300	16300
15	23400	10400	15400	22500	13700	17500	24200	16400	20100	18700	13400	15700
16	21400	12000	15300	23500	14600	18100	23000	16600	19200	20800	12300	15600
17	21100	11400	15700	25200	15400	18500	21600	16300	18500	21600	14300	17400
18	22300	12100	16000	24600	17200	19800	20900	15600	17800	20600	14000	17300
19	21900	13400	16100	24900	17600	20100	21400	15700	18000	19900	14200	16500
20	23000	14300	16800	24900	17500	20100	21400	15300	17900	20900	14700	17200
21	23000	13900	16900	23900	16200	19100	19800	14200	16200	21900	14400	17500
22	22600	14500	16500	23200	16900	19300	18700	13900	15700	20400	13900	16900
23	18200	13000	14900	22200	16700	18900	18100	13500	15100	22500	13900	17600
24	18900	13500	15900	23000	16300	19300	17900	12800	14700	19300	14500	16300
25	19300	13300	15800	22800	16500	19500	16400	11900	13700	18600	15300	16900
26	19100	13200	15600	25200	16800	20400	15500	11600	13100	20300	16400	18200
27	19800	12300	15100	24600	18300	20500	16900	12000	13500	18300	14800	16700
28	21600	13300	15800	26000	18200	20900	16900	12100	13800	17900	13600	15500
29	22400	13000	16200	26500	18300	21500	18600	12100	14000	18300	13900	16100
30	22600	13700	17100	26500	17900	21100	17900	12300	14100	19200	13900	16200
31	---	---	---	24900	18100	20500	19300	12800	15000	---	---	---
MONTH	23400	10200	15300	26500	13200	19000	27700	11600	18100	22500	11700	16000

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	20100	13000	16900	21900	11900	15000	12600	6270	8970	15800	2560	10500
2	21000	15100	17600	14800	11300	12700	10300	5800	7620	19500	9820	12500
3	19300	13100	16000	19600	13000	14600	10300	4970	7110	20700	3770	13800
4	19600	14000	16200	17800	11700	14100	13400	5610	7430	22400	4570	15600
5	17800	12000	14800	20500	12200	15000	10800	4440	7380	15600	1820	8240
6	20300	12200	15300	17300	10500	13600	11200	4180	6060	17400	3850	10200
7	19000	11600	14700	14700	10400	11800	9050	1870	5280	23100	5800	12000
8	17500	11900	14400	14500	10100	12200	7320	1180	3280	24100	4700	13700
9	24200	13100	17600	15900	9860	12300	10400	520	3070	18500	2940	10500
10	17600	12600	14700	17000	10500	13000	10600	1380	4900	15700	4260	9080
11	25200	12900	17200	19300	10500	13900	10600	557	3910	21100	3440	12500
12	24200	14900	19800	17800	9120	12500	8580	219	1520	17500	4460	12300
13	21600	13600	16500	17100	8650	12200	8190	151	2060	21000	11300	14900
14	20900	14600	18000	18900	9440	12600	15300	2450	5790	20800	11600	14700
15	21600	15300	19700	17700	8420	11400	11500	3670	6180	14900	9780	12000
16	22100	15200	17700	15600	7210	10400	10800	4520	6590	11700	8130	9580
17	22900	15000	18100	17400	8710	11500	13400	1660	7380	14500	8750	11000
18	20800	15100	17400	13600	6970	9720	15500	1890	5990	14500	8360	10800
19	20400	14600	16900	15900	8030	10800	12000	3760	6990	11000	7650	9400
20	22100	14800	17300	14400	5040	8410	12700	4750	7510	12600	8710	9940
21	24000	13600	17700	12900	4720	6960	18300	4580	10400	13500	9120	10900
22	15700	11200	13300	9660	5470	7300	4750	2830	3890	12100	8360	10000
23	16200	12100	13700	16200	5730	9880	9920	611	5300	17800	8260	11800
24	16900	12800	14700	20000	7860	12500	15900	164	7510	19200	11700	14500
25	17000	12300	14200	20700	7770	13800	20300	741	9640	20400	11200	14200
26	24400	13000	18100	19400	3980	12300	11200	280	5200	22200	12300	15500
27	23800	15100	19100	24900	9880	15200	14900	581	6840	19600	11600	15200
28	23100	12700	16800	28900	14400	21300	21500	2020	9840	21400	13400	16400
29	18300	12000	14700	16900	10100	12100	23300	5350	12200	18400	10600	13700
30	19800	13100	15800	11900	7870	9560	22500	2240	12000	14400	9310	11500
31	22200	14500	16900	---	---	---	19400	3470	11900	14100	9360	11400
MONTH	25200	11200	16500	28900	3980	12300	23300	151	6770	24100	1820	12200

HUDSON RIVER BASIN

01376304 HUDSON RIVER SOUTH OF HASTINGS-ON-HUDSON, NY--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	14400	8470	10800	11100	5950	7530	223	165	191	2950	205	507
2	13400	7880	9860	10700	5850	7890	200	157	183	1230	200	355
3	12700	6620	9120	20000	8270	12600	232	164	187	3030	210	1270
4	9930	6350	7650	12600	6340	9140	199	150	183	8870	905	3210
5	12800	6350	8650	10700	6490	7930	1960	150	362	16300	2600	8130
6	12600	7290	9230	13200	6110	8300	3210	154	798	14200	3620	7580
7	14700	7030	9320	14400	7430	9600	3400	161	549	16600	4150	7690
8	14900	6450	9380	11800	7090	8790	204	153	187	17300	5500	11200
9	18700	8130	11200	12800	6080	8900	211	157	182	14500	5710	8720
10	13700	7640	9990	17100	7250	9720	205	152	179	11900	5730	8060
11	14300	8020	10200	9020	3910	6370	219	165	189	12600	6760	8090
12	14900	8770	11300	7040	3260	4820	274	160	190	13700	5190	7700
13	16100	8580	11300	6460	1880	3460	2150	165	274	9390	3570	5290
14	11800	5320	7840	4040	1030	1980	3620	180	484	10500	3780	5620
15	12100	6710	8640	3360	591	1420	225	166	190	10900	5130	7410
16	15600	6430	9350	3270	296	1110	220	168	188	16700	4980	9640
17	14500	7050	9730	1170	252	426	205	171	190	15800	5070	9350
18	11800	5310	8480	5160	783	2170	227	159	191	18500	6170	10100
19	17200	6730	10900	7840	1550	3250	544	160	237	18400	6050	11400
20	15600	5690	9930	6920	2170	4050	2730	304	876	20300	6940	12900
21	18300	5330	10800	15100	3770	7490	5680	799	2920	17400	7300	12300
22	15800	6340	11200	17400	4270	8560	8870	2490	4520	15600	8570	11600
23	20600	7060	12300	10000	5130	6930	11300	3370	6290	15400	9360	11500
24	19400	8320	12400	12000	6140	8260	8390	1680	4420	15300	8360	10700
25	11200	8040	9300	10100	6210	7300	10300	1560	3690	15100	8130	10500
26	10800	7430	8870	6420	3860	5210	10300	903	3330	15200	7480	9710
27	9110	5870	7180	5200	2280	3590	7680	468	1600	14500	6020	8180
28	7970	5680	6830	3820	662	1810	2590	202	568	11900	6140	8050
29	---	---	---	1340	310	585	523	205	269	12500	5800	7650
30	---	---	---	411	231	306	2840	191	398	10000	5090	6990
31	---	---	---	288	171	232	---	---	---	8890	4380	6360
MONTH	20600	5310	9710	20000	171	5480	11300	150	1130	20300	200	7990
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	8590	4360	6330	14900	7760	10600	21400	11000	15500	18300	6590	12400
2	10800	4250	7160	17000	7140	10600	22900	10900	16200	21600	7270	14000
3	16100	4840	8610	16500	7150	10400	23600	10400	16800	23000	9160	14200
4	18900	7340	12600	21600	8290	13300	24300	11000	16900	22800	11900	15600
5	22100	8590	14800	22800	8910	14800	22800	11600	16000	22600	13400	16500
6	21700	9690	15000	21900	9500	15000	24800	13300	16000	22500	14200	16700
7	20600	8730	14400	22100	9800	15600	23800	15000	17600	18900	13800	15800
8	21000	10200	14600	22000	10100	15000	23800	14500	18700	18200	13200	15400
9	21700	11800	15300	20600	11500	15100	23700	16400	18700	18900	13300	15500
10	22700	12400	15700	21400	12200	15000	22300	14500	17300	18600	12900	15200
11	22900	13000	16200	19900	13000	14900	20300	12900	17100	17500	12100	14500
12	22800	13800	16900	18500	12000	15200	21500	14400	17500	18500	11600	14300
13	20200	14000	16000	19400	12300	15400	22900	14000	17800	19900	12800	14900
14	20200	13400	15700	20000	12100	15700	21300	14000	16900	21300	12900	15700
15	18200	12600	14400	22400	13100	16500	21200	13400	16200	21600	13200	16000
16	19200	11800	14300	22000	13500	16500	23100	13800	16800	21000	13100	16300
17	18700	11500	14400	23200	12000	16500	21600	12600	16400	20000	10900	15700
18	20000	10900	14800	23900	13800	18100	20600	13400	16300	19000	12900	15000
19	19700	11500	14600	23000	13200	18100	17200	9720	13600	19600	13200	15900
20	22300	11900	15200	22100	13500	17100	16000	11000	13000	19000	13000	15500
21	22000	12100	15700	23000	14000	17300	15700	10500	12300	18600	13200	15400
22	20500	11800	15200	22100	14700	17400	14700	8390	10700	20800	13500	16500
23	20700	12700	15300	21600	12900	16000	13300	7690	10100	25300	13900	18200
24	20900	13500	16000	19800	12800	15700	13800	7230	9160	21100	13200	16100
25	22200	12900	16200	20100	12900	15600	10800	6380	8250	22200	13200	16500
26	20900	12200	15100	19700	12500	15700	10800	5470	7250	21900	14500	18000
27	19300	12800	15500	18800	11900	14900	10300	4970	7170	25700	15600	19900
28	18800	12100	14600	20100	11700	14500	12700	5170	8310	24400	12400	17800
29	17200	11300	13500	16800	10800	13600	12200	4020	7580	19500	10000	14100
30	16600	8980	11800	20600	10900	14200	17000	4410	10000	14500	8850	11100
31	---	---	---	19700	10100	14500	18600	5210	11400	---	---	---
MONTH	22900	4250	14200	23900	7140	15100	24800	4020	14000	25700	6590	15600

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01376304 HUDSON RIVER SOUTH OF HASTINGS-ON-HUDSON, NY--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	25100	20400	22000	7390	1890	4390	9060	1660	4380	23600	12700	16100
2	25200	20100	21800	12500	3280	6240	4030	1380	2590	23800	13200	16000
3	25400	19800	21900	11700	3840	6590	13300	2040	6420	23900	13600	17000
4	24300	20100	22000	9320	3650	5330	12800	3460	6000	19500	12200	15300
5	24500	19800	21700	7510	2480	4340	11400	3000	6830	19200	12100	14200
6	24600	18200	21300	9730	1920	4360	11200	4890	7130	15300	11400	13000
7	23900	18800	20800	12500	2140	5490	11200	4480	6560	21700	13300	16100
8	22300	16800	19100	6710	1420	3550	8470	3720	5890	27500	18100	21600
9	20300	15300	18000	6840	947	2480	15100	5010	7980	21300	15200	17700
10	20300	15900	18200	11100	1980	4610	11400	3560	6160	19800	14600	16800
11	20400	15200	18000	12900	1360	5310	6350	2750	4240	19400	14400	16300
12	19500	14900	17300	19100	146	5070	12200	3510	6610	20100	15500	17400
13	19900	14100	17200	335	136	216	---	6180	---	18800	13400	16300
14	21300	15200	17100	12900	145	2710	22800	6440	13000	20400	13300	15700
15	17800	13200	15100	15600	986	4460	21500	6920	14200	20300	13500	15900
16	15500	11800	13700	2940	755	1350	27000	6750	16700	20800	13800	16700
17	17100	11800	13900	2690	825	1590	24500	8880	16000	22700	14700	17200
18	18700	13300	16400	5540	1440	3070	19100	8730	12600	20800	14300	16500
19	21200	12800	15500	8630	2060	4670	21200	10600	15300	25100	14200	18800
20	24300	13700	17500	11100	2450	5790	23500	13700	16700	15800	7120	10400
21	26700	17900	21300	13900	4250	6760	18700	14000	15500	7920	1760	4450
22	18500	12500	14700	9080	2880	4700	17300	12400	14200	2600	488	1090
23	13400	9250	11100	7110	1490	3300	23400	14300	17100	621	268	402
24	11000	7960	9310	4290	823	2090	22600	14600	17000	348	207	284
25	9770	6310	7800	8320	893	2310	20300	14200	16400	267	147	206
26	9010	5960	7220	9850	782	3270	17900	12200	15000	187	127	158
27	11300	5750	7340	7010	1390	3630	16000	12100	13600	6910	137	1210
28	11000	4330	7190	5110	192	2040	18300	12600	14800	187	116	134
29	5290	2010	3660	5630	172	1740	17000	11300	13800	146	86	120
30	3170	2040	2630	8180	1150	3790	18500	11100	14400	156	76	115
31	6090	2060	3000	---	---	---	18300	11700	14800	3320	76	1310
MONTH	26700	2010	15000	19100	136	3840	---	1380	---	27500	76	10800

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	5200	816	2640	13800	3660	6710	19800	7720	12500	7140	1700	3740
2	8840	2190	4640	17700	5010	10200	14300	8930	11400	3930	202	807
3	9890	3940	6440	16800	5690	8580	16100	10900	12600	388	161	219
4	13100	6850	8810	10100	5380	7350	14500	11000	12000	254	140	173
5	13200	6190	8900	12500	8060	9540	13600	10900	11800	193	121	159
6	11000	6250	8460	13500	8420	10300	14300	10500	11700	430	111	163
7	11800	6120	8260	15700	9230	11400	14900	10800	12300	658	112	162
8	11800	5780	7970	12900	7990	10000	15800	9870	11800	163	102	139
9	10800	4590	7050	9650	5310	7380	13800	9470	11300	1310	112	251
10	8730	3830	5660	9560	5540	7220	---	---	---	2210	123	755
11	11600	4030	6940	11900	5540	7690	10000	6090	7520	2810	123	895
12	8580	3390	4820	15000	6120	8680	13900	6960	9180	963	104	183
13	9710	3240	5970	19200	6900	10200	13500	7260	9680	166	104	131
14	16800	3880	8380	---	---	---	13700	7300	9770	167	115	147
15	17300	6030	10100	---	---	---	12100	6070	8300	167	105	136
16	16500	7940	10400	---	---	---	12700	4780	7890	314	115	147
17	16000	7350	10100	---	---	---	6460	656	2610	732	116	161
18	13500	5790	8680	---	---	---	1630	359	602	2420	116	250
19	12500	4950	7790	---	---	---	596	298	373	2780	118	422
20	14800	5350	8720	---	---	---	359	246	300	3220	118	521
21	13600	4570	7850	---	---	---	319	206	257	1290	130	520
22	10400	3150	5950	---	---	---	278	206	234	2360	---	---
23	6460	1470	3430	---	---	---	1270	207	476	4160	1150	2350
24	3930	290	1670	---	---	---	424	187	246	7940	2100	4110
25	784	109	274	---	---	---	619	166	268	10600	3310	6410
26	2170	119	599	8260	1040	3390	1360	281	676	20800	3610	8030
27	5240	606	2780	6970	1510	3370	2380	394	1110	19100	4280	9690
28	9820	1780	4450	14100	2790	5960	2730	632	1580	18100	5370	10700
29	7550	2450	4590	18300	4330	11500	8030	1040	3160	19200	6150	12000
30	---	---	---	22000	5180	12300	9520	2280	4760	17200	8120	11500
31	---	---	---	19800	5930	11800	---	---	---	17000	9650	12400
MONTH	17300	109	6290	---	---	---	---	---	---	20800	---	---

HUDSON RIVER BASIN

01376304 HUDSON RIVER SOUTH OF HASTINGS-ON-HUDSON, NY--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	16500	11200	12800	20300	12700	15000	17800	10000	12300	18200	11700	14600
2	16700	10700	12700	19800	12500	14800	15800	9190	11700	22000	12100	15800
3	16700	10700	12600	19600	12400	15000	14400	8700	11000	19000	11300	14600
4	17200	10500	12500	20200	11700	14300	13200	7880	10300	18700	11400	14300
5	15700	9510	11500	16300	10600	12900	12400	7450	9800	19400	12100	15300
6	13800	9010	10700	14200	10200	12000	13300	8020	9900	21900	12000	16100
7	13000	8770	10600	14700	9240	11400	13700	7700	10100	23000	13300	18000
8	13700	8190	10300	16100	9600	11800	14200	6750	10000	21800	13000	17800
9	12100	7390	9480	16500	9290	11500	13300	7460	9980	21900	12300	16900
10	10800	6470	8480	15000	8350	11000	15200	7320	10200	20400	12200	15500
11	10400	5410	7440	---	---	---	18200	8330	11000	19500	12300	14900
12	13500	5370	7320	---	9840	---	18400	8830	12300	21900	12300	16600
13	11600	4740	6910	19000	11000	14200	21100	9610	13200	21400	14400	17300
14	10400	4510	6120	13300	6930	9030	19800	9590	13300	20900	13000	16400
15	10700	4020	5700	8570	3680	5610	17300	9710	13300	20100	14100	17000
16	10200	3610	5840	6490	1760	3120	19000	11100	13900	18700	13800	15600
17	12200	3760	6290	2970	999	1600	17500	12200	14100	22100	14600	17500
18	10000	4430	6710	2250	754	1160	16900	12000	13600	18300	12900	15500
19	13000	4790	8270	---	---	---	16800	11300	13300	17300	12700	14900
20	14400	5420	9190	---	---	---	---	---	---	17000	12000	13900
21	15800	5930	10100	---	---	---	18000	11200	13800	18000	11000	13700
22	15700	6060	10500	---	---	---	17600	11400	13600	19100	11500	13800
23	17200	5820	10600	---	---	---	20100	11100	14500	17100	11100	13600
24	17000	7310	11700	---	---	---	19700	10800	13900	17100	10600	13900
25	18300	7200	11700	21700	6830	11500	20300	11600	14800	15200	9870	12400
26	16100	6920	10500	19000	7660	12200	20000	12500	14900	14600	9040	11700
27	18900	9190	11900	17400	7450	10900	20700	12400	15100	14300	8980	11500
28	19400	10100	13300	16200	8960	11400	20100	12100	15400	16200	9410	12100
29	20800	12000	15000	17000	10300	12100	19700	11800	14900	14300	7520	10200
30	20400	12600	15600	16800	9980	12400	18200	11600	14500	10600	6760	8550
31	---	---	---	17000	9410	12400	18300	11600	14400	---	---	---
MONTH	20800	3610	10100	---	---	---	---	---	---	23000	6760	14700

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

[illegible]

HUDSON RIVER BASIN

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01376304 HUDSON RIVER SOUTH OF HASTINGS-ON-HUDSON, NY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	17.0	16.0	16.5	23.0	20.0	21.5	24.0	23.5	24.0	24.0	23.5	24.0
2	17.5	16.5	17.0	22.0	20.5	21.5	24.0	23.5	24.0	23.5	23.5	23.5
3	18.5	17.0	17.5	22.0	20.5	21.5	24.5	23.5	24.0	23.5	23.0	23.0
4	19.0	17.5	18.0	22.0	20.5	21.5	24.5	24.0	24.0	24.0	23.0	23.5
5	18.5	18.5	18.5	22.5	21.0	21.5	24.5	23.5	24.0	23.5	23.0	23.5
6	19.5	18.0	18.5	22.5	21.0	22.0	24.5	23.5	24.0	23.5	22.5	23.0
7	20.0	19.0	19.5	23.0	21.5	22.0	25.0	23.5	24.0	23.5	22.5	23.0
8	20.5	19.5	20.0	24.0	22.0	22.5	24.5	23.5	24.0	24.0	22.5	23.0
9	20.5	20.0	20.0	24.0	22.0	23.0	24.0	23.5	24.0	---	22.5	---
10	21.5	20.0	20.5	24.5	22.5	23.5	25.0	23.5	24.0	24.0	22.5	23.5
11	21.5	20.0	20.5	24.5	22.5	23.5	25.5	23.5	24.5	24.0	22.5	23.5
12	22.0	20.0	21.0	24.5	22.5	23.5	25.5	24.0	24.5	23.0	22.5	23.0
13	22.5	20.5	21.5	25.0	23.0	24.0	24.5	23.5	24.0	23.0	22.5	22.5
14	23.0	20.5	21.5	26.0	23.0	24.5	24.0	23.5	24.0	23.0	22.0	22.5
15	22.5	21.0	21.5	25.5	23.5	24.5	23.5	23.0	23.5	23.0	22.0	22.5
16	23.0	21.0	22.0	24.5	23.5	24.5	23.0	22.5	23.0	23.0	22.5	22.5
17	23.0	21.5	22.0	24.5	24.0	24.0	23.0	22.5	22.5	23.0	22.5	22.5
18	22.0	21.0	21.5	25.0	23.5	24.5	23.5	22.5	23.0	23.5	22.5	23.0
19	21.5	21.0	21.5	25.5	24.0	24.5	23.5	22.5	23.0	23.5	22.5	23.0
20	22.0	21.0	21.5	25.5	24.5	25.0	23.5	22.5	23.0	23.0	22.0	22.5
21	22.0	21.0	21.5	25.5	24.5	25.0	24.0	22.5	23.0	22.5	22.0	22.0
22	21.5	20.5	21.0	25.0	24.5	24.5	24.0	23.0	23.5	---	22.0	22.5
23	21.0	20.0	20.5	24.5	23.5	24.0	24.5	23.0	23.5	22.5	21.5	22.0
24	---	19.5	---	24.0	23.5	23.5	25.0	23.0	23.5	21.5	21.0	21.0
25	21.0	19.5	20.0	24.5	23.5	24.0	25.0	23.5	24.0	21.0	20.0	20.5
26	22.0	19.5	20.5	24.0	23.0	23.5	25.5	23.5	24.0	20.0	19.5	20.0
27	22.0	19.5	20.5	25.0	23.0	23.5	25.5	24.0	24.5	20.0	19.5	20.0
28	22.5	19.0	21.0	24.5	23.5	24.0	25.0	24.0	24.5	20.0	19.5	20.0
29	23.0	19.5	21.0	25.0	23.5	24.0	25.0	24.0	24.5	20.0	19.0	19.5
30	22.0	20.0	21.0	24.5	23.5	24.0	24.5	24.0	24.0	19.5	18.5	19.0
31	---	---	---	24.0	23.5	24.0	24.5	23.5	24.0	---	---	---
MONTH	---	16.0	---	26.0	20.0	23.5	25.5	22.5	24.0	---	18.5	---

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

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

HUDSON RIVER BASIN

01376304 HUDSON RIVER SOUTH OF HASTINGS-ON-HUDSON, NY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

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

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

HUDSON RIVER BASIN

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01376304 HUDSON RIVER SOUTH OF HASTINGS-ON-HUDSON, NY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	19.0	18.0	18.5	13.0	12.0	12.5	8.5	8.0	8.5	2.0	.5	1.0
2	18.5	17.5	18.0	12.0	11.5	12.0	8.5	8.0	8.0	2.0	1.0	1.5
3	18.5	18.0	18.0	12.0	11.0	11.5	8.5	7.5	8.0	2.0	1.0	1.0
4	18.0	17.0	17.5	12.0	11.0	11.5	8.5	7.5	8.0	2.5	.5	1.5
5	17.5	17.0	17.5	11.5	11.0	11.5	8.0	7.5	8.0	1.0	.0	.5
6	17.5	16.5	17.0	11.5	11.0	11.5	8.0	7.0	7.5	1.0	.0	.5
7	17.0	16.5	16.5	11.5	10.5	11.0	7.5	7.0	7.0	1.5	.0	.5
8	17.5	16.5	17.0	11.0	10.0	10.5	7.5	7.0	7.0	1.5	.0	.0
9	18.0	17.0	17.5	11.0	10.0	10.5	7.5	7.0	7.0	.0	.0	.0
10	17.5	16.0	17.0	10.5	10.0	10.5	7.5	6.5	7.0	.0	.0	.0
11	16.0	15.0	16.0	10.5	10.0	10.5	7.5	6.0	6.5	.0	.0	.0
12	16.0	14.5	15.5	10.5	10.0	10.0	6.5	4.5	5.5	.0	.0	.0
13	15.5	14.5	15.0	10.5	10.0	10.0	6.0	3.5	4.5	.0	.0	.0
14	15.0	14.5	14.5	10.5	10.0	10.5	6.0	4.5	5.0	.0	.0	.0
15	15.0	14.5	14.5	11.0	10.5	10.5	5.5	4.5	5.0	.0	.0	.0
16	15.0	14.5	14.5	11.0	10.5	10.5	5.5	4.5	5.0	.0	.0	.0
17	15.0	14.5	14.5	11.0	10.5	10.5	5.5	4.0	4.5	.0	.0	.0
18	15.0	14.5	15.0	11.0	10.5	11.0	5.0	3.5	4.0	.0	.0	.0
19	15.0	15.0	15.0	11.0	10.5	10.5	5.0	4.0	4.5	.0	.0	.0
20	15.0	14.5	15.0	10.5	9.5	10.5	5.0	4.0	4.5	.0	.0	.0
21	15.0	14.5	15.0	10.0	9.0	9.5	5.5	4.0	4.5	.0	.0	.0
22	15.0	14.5	15.0	9.5	9.0	9.5	4.5	4.0	4.0	.0	.0	.0
23	14.5	14.0	14.5	10.0	9.0	9.5	4.5	3.5	4.0	.0	.0	.0
24	14.5	14.0	14.0	10.0	9.5	9.5	4.5	3.5	4.0	.0	.0	.0
25	15.0	14.0	14.0	9.5	8.5	9.5	4.5	3.0	4.0	.0	.0	.0
26	14.5	14.0	14.0	9.0	8.0	8.5	3.5	2.0	2.5	.0	.0	.0
27	14.5	13.5	14.0	9.5	8.0	8.5	3.0	1.5	2.0	.0	.0	.0
28	14.0	13.5	14.0	9.5	9.0	9.5	4.0	.5	2.0	.0	.0	.0
29	14.0	13.5	13.5	9.0	8.5	9.0	3.5	1.5	2.5	.0	.0	.0
30	14.0	13.5	13.5	9.0	8.5	8.5	3.0	1.0	1.5	.0	.0	.0
31	13.5	12.5	13.0	---	---	---	2.0	.5	1.5	.0	.0	.0
MONTH	19.0	12.5	15.5	13.0	8.0	10.5	8.5	.5	5.0	2.5	.0	.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	.0	.0	.0	.0	.0	.0	3.5	2.5	3.0	12.5	11.5	12.0
2	.0	.0	.0	.0	.0	.0	4.0	3.0	3.5	12.5	12.0	12.5
3	.0	.0	.0	.0	.0	.0	5.0	3.0	4.0	13.0	12.0	12.5
4	.0	.0	.0	.0	.0	.0	6.0	4.0	5.0	12.5	12.0	12.0
5	.0	.0	.0	.0	.0	.0	6.0	4.5	5.0	13.0	11.5	12.0
6	.0	.0	.0	.5	.0	.0	6.0	5.0	5.5	13.0	12.0	12.5
7	.0	.0	.0	1.0	.5	.5	7.0	5.0	6.0	14.0	11.5	12.5
8	.0	.0	.0	1.0	.5	1.0	7.0	6.0	6.5	13.0	11.5	12.5
9	.0	.0	.0	1.0	.5	1.0	6.5	6.0	6.0	14.0	12.0	13.0
10	.0	.0	.0	1.0	.5	1.0	6.5	6.0	6.0	14.0	13.0	13.5
11	.0	.0	.0	1.5	1.0	1.0	7.5	6.0	7.0	14.0	13.0	13.5
12	.0	.0	.0	1.5	1.0	1.0	7.0	7.0	7.0	14.0	13.0	13.5
13	.0	.0	.0	2.0	1.5	1.5	7.5	6.5	7.0	14.0	13.0	13.5
14	.0	.0	.0	2.0	1.5	2.0	8.5	7.0	7.5	14.5	13.0	13.5
15	.0	.0	.0	2.5	2.0	2.0	8.5	7.5	8.0	14.5	13.5	14.0
16	.0	.0	.0	2.5	2.0	2.0	8.5	7.5	8.0	15.0	13.0	14.0
17	.0	.0	.0	2.0	1.5	1.5	8.5	7.5	8.0	14.5	13.5	14.0
18	.0	.0	.0	1.5	1.0	1.5	9.0	7.5	8.0	14.5	13.0	14.0
19	.0	.0	.0	2.0	1.0	1.0	8.5	7.5	8.0	14.5	13.0	14.0
20	.5	.0	.0	2.0	1.0	1.5	9.0	8.0	8.5	14.0	13.0	13.5
21	.5	.0	.5	2.5	1.5	2.0	9.5	8.5	8.5	15.5	13.0	14.0
22	1.0	.0	.5	3.0	2.0	2.5	9.5	8.5	9.0	16.0	13.5	14.5
23	1.0	.5	.5	4.0	2.5	3.0	10.0	8.0	9.0	16.5	14.5	15.0
24	1.0	.5	.5	4.0	3.0	3.5	10.0	8.5	9.5	16.5	15.0	15.5
25	.5	.0	.5	3.5	2.5	3.0	10.0	9.0	9.5	17.0	15.0	16.0
26	.5	.0	.5	3.0	2.0	2.5	10.5	9.0	10.0	17.5	15.5	16.5
27	.0	.0	.0	3.0	2.5	2.5	11.5	9.5	10.5	17.0	16.0	17.0
28	.0	.0	.0	3.0	2.5	2.5	12.0	10.5	11.5	17.5	16.5	17.0
29	---	---	---	2.5	2.0	2.5	12.0	11.5	11.5	18.0	16.5	17.0
30	---	---	---	3.0	2.0	2.5	12.5	11.5	12.0	18.0	17.0	17.5
31	---	---	---	3.0	2.0	2.5	---	---	---	18.5	17.5	17.5
MONTH	1.0	.0	.0	4.0	.0	1.5	12.5	2.5	7.5	18.5	11.5	14.0

HUDSON RIVER BASIN

01376304 HUDSON RIVER SOUTH OF HASTINGS-ON-HUDSON, NY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	19.0	17.5	18.0	24.5	23.5	24.0	27.5	26.0	26.5	24.0	22.5	23.0
2	18.5	17.5	18.0	25.5	23.5	24.5	27.5	25.5	26.5	23.5	22.0	22.5
3	19.0	17.5	18.0	25.0	24.0	24.5	27.5	25.5	26.5	23.0	21.5	22.5
4	20.0	17.5	18.5	25.5	23.5	24.5	28.0	25.5	26.5	22.5	21.5	22.0
5	20.0	17.0	18.5	25.5	23.0	24.5	27.0	25.5	26.0	22.0	21.0	21.5
6	19.0	17.0	18.5	26.5	23.0	24.5	25.5	24.0	25.0	21.5	20.5	21.0
7	20.5	17.5	19.0	27.0	23.5	25.0	26.0	24.0	24.5	21.5	21.0	21.0
8	19.5	17.5	19.0	26.5	23.5	25.0	25.5	24.0	24.5	21.5	20.5	21.0
9	20.5	17.5	19.0	26.5	24.0	25.0	25.0	24.0	24.5	21.5	21.0	21.0
10	21.0	18.0	19.0	26.5	24.0	25.5	25.0	24.0	24.5	21.5	21.0	21.0
11	20.0	17.5	19.0	25.5	24.5	25.0	24.5	24.0	24.5	21.0	20.5	21.0
12	19.5	18.0	19.0	26.0	24.5	25.0	24.5	24.0	24.0	21.0	20.5	20.5
13	20.5	18.5	19.5	26.5	24.5	25.5	25.0	23.5	24.5	21.5	20.5	21.0
14	21.0	18.5	20.0	26.0	25.0	25.5	25.0	24.0	24.5	21.0	20.5	21.0
15	22.0	19.5	20.5	25.5	24.5	25.0	24.5	24.0	24.5	22.0	21.0	21.5
16	21.5	20.0	21.0	26.0	24.5	25.5	25.0	23.5	24.0	21.5	20.5	21.0
17	23.0	20.0	21.5	26.5	25.0	25.5	24.5	23.5	24.0	22.0	21.0	21.5
18	24.0	20.5	22.0	25.5	24.5	25.5	24.5	23.5	24.0	21.5	21.0	21.5
19	24.5	21.5	22.5	27.0	25.0	25.5	24.5	24.0	24.0	21.5	20.5	21.0
20	25.0	21.5	23.0	27.5	25.5	26.0	25.0	24.0	24.0	21.5	20.5	21.0
21	23.0	21.5	22.5	27.5	25.5	26.5	25.0	24.0	24.5	21.5	20.5	21.0
22	24.0	22.0	23.0	27.0	25.5	26.5	24.5	24.0	24.0	21.0	20.5	21.0
23	24.0	22.0	23.0	26.5	26.0	26.0	24.0	23.5	23.5	20.5	20.0	20.5
24	23.5	22.0	23.0	27.0	26.0	26.5	24.0	23.0	23.5	20.5	20.0	20.5
25	23.5	22.0	23.0	27.0	26.0	26.5	23.5	23.0	23.5	20.5	20.0	20.5
26	24.0	22.5	23.0	26.5	26.0	26.5	24.0	23.0	23.5	20.5	20.0	20.5
27	24.0	23.0	23.5	27.0	26.5	26.5	24.5	23.5	24.0	20.5	20.0	20.0
28	24.0	23.0	23.5	26.5	26.5	26.5	25.0	23.5	24.0	20.5	20.0	20.5
29	24.0	23.5	23.5	27.0	26.0	26.5	24.5	23.5	24.0	20.5	19.5	20.0
30	24.5	23.5	23.5	27.5	26.0	27.0	24.0	23.0	23.5	20.0	19.0	19.5
31	---	---	---	27.0	26.0	26.5	23.5	23.0	23.0	---	---	---
MONTH	25.0	17.0	21.0	27.5	23.0	25.5	28.0	23.0	24.5	24.0	19.0	21.0

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	19.5	19.0	19.0	15.5	15.0	15.0	6.0	4.5	5.0	1.5	.5	1.0
2	19.5	19.0	19.0	15.5	15.0	15.0	5.0	4.5	5.0	1.5	.5	1.0
3	20.0	19.0	19.5	15.5	15.0	15.0	6.0	4.5	5.5	1.5	.0	.5
4	19.5	19.5	19.5	15.0	14.0	14.5	6.0	5.0	5.5	.5	.0	.0
5	19.5	19.5	19.5	14.5	13.5	14.0	6.0	4.5	5.0	.5	.0	.0
6	20.5	19.5	19.5	14.0	13.0	13.5	6.0	4.5	5.0	.0	.0	.0
7	20.0	19.5	19.5	14.0	12.5	13.0	5.5	4.5	5.0	.0	.0	.0
8	20.0	19.5	19.5	13.0	12.0	12.5	5.0	4.0	4.5	.0	.0	.0
9	19.5	19.0	19.5	12.5	11.0	11.5	5.5	4.0	4.5	.0	.0	.0
10	19.5	19.0	19.5	12.0	11.0	11.5	5.0	2.5	3.5	.0	.0	.0
11	19.5	19.0	19.5	12.0	10.5	11.5	3.0	1.5	2.5	.0	.0	.0
12	19.5	19.0	19.5	12.5	10.0	11.0	3.5	1.5	2.5	.0	.0	.0
13	19.5	19.0	19.5	10.5	10.0	10.0	---	1.5	---	.0	.0	.0
14	19.5	19.0	19.5	11.0	10.0	10.5	4.0	1.5	3.0	.0	.0	.0
15	19.5	18.5	19.0	11.0	9.0	9.5	4.0	2.0	3.0	.0	.0	.0
16	18.5	17.5	18.0	9.0	8.5	9.0	4.5	2.0	3.5	.0	.0	.0
17	18.5	17.0	17.5	8.5	8.0	8.5	4.5	2.5	3.5	.0	.0	.0
18	18.0	17.0	17.5	8.5	8.0	8.0	4.0	2.5	3.0	.0	.0	.0
19	18.0	17.0	17.0	9.0	7.5	8.0	4.0	2.5	3.0	.5	.0	.0
20	18.0	17.0	17.5	9.0	7.5	8.0	3.5	1.5	2.0	.5	.0	.0
21	18.0	17.0	17.5	9.0	7.5	8.0	2.0	1.0	1.5	.5	.0	.0
22	17.5	16.5	17.0	8.0	7.0	7.5	1.5	.5	1.0	.0	.0	.0
23	18.0	17.0	17.5	8.0	6.5	7.0	2.5	1.0	1.5	.0	.0	.0
24	17.5	17.5	17.5	7.0	6.0	6.5	2.0	1.0	1.5	.5	.0	.0
25	17.5	17.5	17.5	7.0	6.0	6.5	2.0	.5	1.0	.5	.0	.0
26	17.5	17.0	17.0	7.0	5.5	6.0	1.5	.5	1.0	.0	.0	.0
27	17.0	17.0	17.0	6.5	5.5	6.0	1.0	.0	.5	1.0	.0	.5
28	17.0	16.5	17.0	6.5	5.5	6.0	1.0	.0	.5	1.0	.5	.5
29	17.0	15.0	16.5	6.0	5.0	5.5	.5	.0	.0	.5	.0	.5
30	16.0	15.0	15.5	6.0	4.5	5.0	1.0	.0	.5	.5	.0	.5
31	15.5	15.0	15.0	---	---	---	1.0	.0	.5	.5	.0	.0
MONTH	20.5	15.0	18.0	15.5	4.5	10.0	---	.0	---	1.5	.0	.0

HUDSON RIVER BASIN

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01376304 HUDSON RIVER SOUTH OF HASTINGS-ON-HUDSON, NY--Continued

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

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	17.0	14.5	15.5	22.5	21.0	22.0	23.0	21.5	22.5	25.0	24.5	25.0
2	17.0	15.0	16.0	23.5	21.5	22.0	23.5	22.0	22.5	25.0	24.0	24.5
3	16.5	15.5	16.0	22.5	22.0	22.5	23.5	22.5	23.0	25.5	24.5	25.0
4	17.0	15.5	16.0	22.5	22.0	22.0	24.0	22.5	23.0	25.5	24.5	25.0
5	18.0	16.0	17.0	23.0	22.0	22.5	24.5	23.0	23.5	25.5	24.5	25.0
6	18.5	16.5	17.5	23.5	22.5	23.0	25.0	23.0	24.0	26.0	24.5	25.0
7	19.0	17.0	18.0	23.5	23.0	23.0	25.5	23.5	24.5	25.0	24.5	24.5
8	20.0	18.0	18.5	24.5	23.0	23.5	25.5	23.5	24.5	25.0	24.5	24.5
9	20.0	18.5	19.0	24.5	23.0	24.0	25.0	24.0	24.5	25.5	24.0	24.5
10	20.5	19.0	19.5	24.5	23.5	24.0	25.5	24.0	24.5	26.0	24.5	25.0
11	21.0	20.0	20.5	---	---	---	25.0	23.5	24.5	25.5	24.5	25.0
12	22.0	19.5	21.0	---	---	---	24.5	23.5	24.0	24.5	24.0	24.5
13	22.5	20.5	21.5	23.5	23.0	23.5	23.5	23.0	23.5	24.5	23.5	24.0
14	23.0	21.0	21.5	25.0	23.5	24.0	25.0	22.5	23.5	24.0	23.5	23.5
15	23.5	21.5	22.0	25.0	24.5	24.5	25.0	23.0	24.0	23.5	23.0	23.5
16	23.0	21.5	22.0	25.5	24.5	25.0	24.0	23.0	23.5	23.5	23.0	23.0
17	22.5	21.5	22.0	25.5	24.5	25.0	25.0	23.0	24.0	23.0	22.5	23.0
18	22.5	21.5	22.0	26.5	25.0	25.0	24.5	23.5	24.0	22.5	21.5	21.5
19	22.0	21.0	21.5	---	---	---	25.0	23.5	24.5	21.5	21.0	21.5
20	21.5	21.0	21.0	---	---	---	---	---	---	21.5	21.0	21.5
21	22.5	20.5	21.0	---	---	---	24.5	24.0	24.5	22.0	21.0	21.5
22	22.0	20.5	21.5	---	---	---	25.5	24.0	24.5	21.5	21.0	21.0
23	22.5	20.5	21.5	---	---	---	26.5	24.0	25.0	21.0	20.5	21.0
24	22.5	21.0	21.5	---	---	---	25.5	24.5	25.0	21.0	20.5	20.5
25	23.5	20.5	22.0	23.5	20.0	22.0	26.5	24.5	25.0	20.5	20.0	20.5
26	23.0	21.5	22.0	23.5	20.5	22.0	26.0	25.0	25.5	20.5	20.0	20.5
27	23.5	21.5	22.0	24.0	21.0	22.5	26.0	24.5	25.5	20.5	20.0	20.0
28	23.0	21.5	22.5	24.5	21.5	23.0	25.5	24.5	25.0	20.0	19.5	20.0
29	23.5	21.5	22.5	23.5	21.5	22.5	25.5	24.5	25.0	20.0	20.0	20.0
30	22.0	21.0	21.5	23.0	21.5	22.5	25.5	24.5	25.0	20.0	20.0	20.0
31	---	---	---	23.0	21.5	22.5	25.5	24.5	25.0	---	---	---
MONTH	23.5	14.5	20.0	---	---	---	---	---	---	26.0	19.5	23.0

HUDSON RIVER BASIN

01376452 SAW MILL RIVER AT FARRAGUT AVENUE AT MOUNT HOPE, NY
 (National water-quality assessment program station)

LOCATION.--Lat 40°58'58", long 73°51'57", Westchester County, Hydrologic Unit 02030101, at bridge on Farragut Avenue, at Mount Hope.

DRAINAGE AREA.--not determined.

PERIOD OF RECORD.--March 1994 to March 1995 (discontinued).

CHEMICAL DATA: 1994-95 (c).

PESTICIDE DATA: 1994 (a).

ORGANIC DATA: OC--1994-95 (c).

NUTRIENT DATA: 1994-95 (c).

SEDIMENT DATA: 1994-95 (c).

REVISIONS.--The pesticide data published in the 1994 annual data report (WDR NY-94-1) are republished here because many of the method detection limits were revised after reevaluation of method performance. Revised method detection limits are listed after the NAWQA section Introduction.

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	MALA- THION, DIS- SOLVED (UG/L) (39532)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)
JUN 02...	1600	0.017	E1.60	0.011	0.100	0.011

E Estimate.

RESERVOIRS IN HUDSON RIVER BASIN

01335900 DELTA RESERVOIR.--Lat 43°16'29", long 75°25'43", Oneida County, Hydrologic Unit 02020004, on superstructure of gatehouse at Delta Dam on Mohawk River, and 4 mi upstream from Rome. **DRAINAGE AREA**, 148 mi². **PERIOD OF RECORD**, May 1913 to current year. **REVISED RECORDS**, WDR NY-85-1: Drainage area. **GAGE**, nonrecording gage read daily at 0800. Datum of gage is Barge Canal datum.

Dam completed Aug. 3, 1912, and controlled storage for which records are available began May 1, 1913. Usable capacity 2,800 mil ft³ at crest of spillway, elevation 550.0 ft. Reservoir is used for navigation in Barge Canal. Records provided by New York State Thruway Authority.

EXTREMES FOR PERIOD OF RECORD (1951-96).--Maximum contents observed, 3,136 mil ft³, June 22, 1972, Apr. 17, 1994, elevation, 552.8 ft; minimum observed, 2.0 mil ft³, Jan. 10, 13, 16-21, Feb. 7-15, Feb. 22 to Mar. 2, 1959, elevation, 492.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 3,040 mil ft³, Apr. 16-17, May 12, elevation, 552.0 ft; minimum observed, 1,570 mil ft³, Oct. 4-6, elevation, 538.0 ft.

01343900 HINCKLEY RESERVOIR.--Lat 43°18'41", long 75°06'30", Oneida County, Hydrologic Unit 02020004, on south side of north gatehouse at Hinckley Dam on West Canada Creek at Hinckley, and 2.2 mi east of Prospect. **DRAINAGE AREA**, 372 mi². **PERIOD OF RECORD**, March 1914 to current year. **REVISED RECORDS**, WDR NY-85-1: Drainage area. **GAGE**, water-stage recorder. Datum of gage is Barge Canal datum.

Reservoir is formed by earth and concrete dam; storage began March 1914. Usable capacity 3,320 mil ft³ between elevation 1,173.5 and 1,225.0 ft. Elevation of inverts of four 60-inch discharge pipes at north end of spillway is 1,169.5 ft, and elevation of inverts of two 42-inch pipes at south end for diverting water to city of Utica is 1,164.25 ft. Crest of Ogee spillway is at elevation 1,225.0 ft. Length of spillway is 400 ft. Area of water surface at crest elevation is 4.46 mi². Telephone gage-height telemeter at station. Records provided by New York Power Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 4,041 mil ft³, Oct. 2, 1945, elevation, 1,230.2 ft; minimum observed (after initial filling), not determined.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 3,612 mil ft³, Oct. 22, Apr. 24, elevation, 1,227.2 ft; minimum observed, 651 mil ft³, Apr. 11, elevation, 1,192.5 ft.

01350100 SCHONARIE RESERVOIR (see station for mean daily elevations, skeleton capacity table, monthly contents and change in contents).

01363400 ASHOKAN RESERVOIR.--Lat 41°57'01", long 74°12'30", Ulster County, Hydrologic Unit 02020006, at gatehouse located at Dividing Weir Dyke, and 1.6 mi south of Shokan. **DRAINAGE AREA**, 256 mi². **PERIOD OF RECORD**, September 1913 to current year. **REVISED RECORDS**, WDR NY-72-1: 1968. WDR NY-83-1: (M)(m). **GAGE**, nonrecording gage read daily at 0800. Datum of gage is sea level (levels by Board of Water Supply, City of New York).

The reservoir is formed by the masonry Olive Bridge Dam across Esopus Creek and a series of earth embankments between hills. The reservoir is divided into two basins separated by a weir containing a gatehouse. Storage began Sept. 9, 1913. Usable capacity of West basin 47,180 mil gal between minimum operating level elevation 495.50 ft and crest of spillway to East basin, elevation 590.00 ft; dead storage below minimum operating level 2,237 mil gal. Usable capacity of East basin 80,678 mil gal between elevation 500.00 ft and crest of spillway, elevation 587.10 ft; no dead storage. Figures given herein represent total contents for each basin. Reservoir impounds water for diversion into Catskill Aqueduct for New York City water supply (see elsewhere in this section). Any flood spillage enters the Esopus Creek channel below Olive Bridge Dam. Records provided by Department of Environmental Protection, City of New York.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, in West basin, 54,001 mil gal, Mar. 31, 1951, elevation, 594.33 ft, in East basin, 89,411 mil gal, Mar. 31, 1951, elevation, 592.23 ft; minimum observed, in West basin, 9,098 mil gal, Oct. 24, 1926, elevation, 530.56 ft, in East basin, 8,394 mil gal, Oct. 24, 1926, elevation, 525.91 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, in West basin, 51,122 mil gal, Jan. 28, elevation, 591.61 ft, in East basin, 82,725 mil gal, Apr. 17, elevation, 588.32 ft; minimum observed, in West basin, 30,300 mil gal, Oct. 1, elevation, 568.65 ft, in East basin, 36,892 mil gal, Nov. 1, 2, elevation, 556.62 ft.

01366400 RONDOUT RESERVOIR.--Lat 41°47'57", long 74°25'48", Ulster County, Hydrologic Unit 02020007, at release chamber at Merriman Dam on Rondout Creek, 1.1 mi upstream from Brandy Brook, and 1.3 mi northwest of Lackawack. **DRAINAGE AREA**, 95.4 mi². **PERIOD OF RECORD**, May 1951 to current year. **GAGE**, water-stage recorder. Datum of gage is sea level (levels by Board of Water Supply, City of New York).

Reservoir is formed by an earthfill rockfaced dam; storage began May 10, 1951. Initial filling (to crest of spillway) Mar. 28, 1955. Usable capacity 50,048 mil gal between minimum operating level, elevation, 720.00 ft and crest of spillway, elevation, 840.00 ft. Dead storage below elevation 720.00 ft, 2,387 mil gal. Figures given herein represent total contents. Reservoir impounds water from Rondout Creek; water diverted from Cannonsville Reservoir in the Delaware River basin through West Delaware Tunnel; water diverted from Pepacton Reservoir through East Delaware Tunnel; and water diverted from Neversink Reservoir through Neversink-Grahamsville Tunnel. Water is diverted from Rondout Reservoir for New York City water supply through West Branch Tunnel of Delaware Aqueduct (see elsewhere in this section). Records provided by New York City Department of Environmental Protection.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 53,458 mil gal, Apr. 5, 1987, elevation, 841.49 ft; minimum observed (after initial filling), 8,335 mil gal, Oct. 15, 1957, elevation, 748.75 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 52,286 mil gal, May 1, elevation, 839.78 ft; minimum observed, 41,163 mil gal, Feb. 20, elevation, 822.51 ft.

HUDSON RIVER BASIN

RESERVOIRS IN HUDSON RIVER BASIN--Continued

MONTH-END ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Elevation (feet) †	Contents (million ft ³)	Change in contents (equivalent in ft ³ /s)	Elevation (feet) *	Contents (million ft ³)	Change in contents (equivalent in ft ³ /s)
01335900 Delta Reservoir				01343900 Hinckley Reservoir		
Sept. 30	538.2	1,588		1,200.0	1,097	
Oct. 31	546.0	2,350	+284	1,224.0	3,200	+ 785
Nov. 30	541.1	1,850	-193	1,218.4	2,590	- 235
Dec. 31	543.2	2,060	+ 78.4	1,203.8	1,354	- 461
CAL YR 1995	-	-	+ 0.63	-	-	- 32.9
Jan. 31	546.2	2,372	+116	1,217.9	2,540	+ 443
Feb. 29	548.6	2,636	+105	1,215.2	2,278	- 105
Mar. 31	547.9	2,559	- 28.7	1,194.3	749	- 571
Apr. 30	551.2	2,944	+149	1,225.2	3,346	+1,002
May 31	550.1	2,812	- 49.3	1,222.2	2,993	- 132
June 30	549.6	2,752	- 23.1	1,221.4	2,904	- 34.3
July 31	549.5	2,740	- 4.48	1,221.4	2,904	0.0
Aug. 31	545.7	2,317	-158	1,215.0	2,260	- 240
Sept. 30	546.2	2,372	+ 21.2	1,213.6	2,137	- 47.5
WTR YR 1996	-	-	+ 24.8	-	-	+ 32.9

Date	Elevation (feet) ††	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)	Elevation (feet) ††	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)	Elevation (feet) **	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)
01363398 Ashokan Reservoir West Basin				01363399 Ashokan Reservoir East Basin			01366400 Rondout Reservoir		
Sept. 30	568.55	30,224		564.46	46,758		829.15	45,289	
Oct. 31	578.38	46,809	+828	556.67	37,072	- 483	830.86	46,380	+ 54.5
Nov. 30	587.72	47,147	+ 17.4	569.57	53,597	+ 852	830.76	46,316	- 3.30
Dec. 31	575.38	35,770	-568	574.46	60,598	+ 349	828.91	45,136	- 58.9
CAL YR 1995	-	-	- 3.22	-	-	+ 12.6	-	-	+ 11.2
Jan. 31	590.53	49,979	+709	587.78	81,819	+1,059	831.31	46,670	+ 76.6
Feb. 29	590.33	49,767	- 11.3	587.42	81,215	- 32.2	829.83	45,722	- 50.6
Mar. 31	590.22	49,651	- 5.79	587.34	81,081	- 6.69	837.97	51,058	+266
Apr. 30	590.67	50,127	+ 24.6	587.71	81,701	+ 32.0	839.78	52,286	+ 63.3
May 31	590.10	49,524	- 30.1	586.93	80,393	- 65.3	838.52	51,430	- 42.7
June 30	590.13	49,556	+ 1.65	586.61	79,856	- 27.7	838.91	51,693	+ 13.6
July 31	590.21	49,640	+ 4.19	587.12	80,712	+ 42.7	838.07	51,125	- 28.3
Aug. 31	590.08	49,503	- 6.84	583.00	73,927	- 339	835.88	49,661	- 73.1
Sept. 30	590.29	49,725	+ 11.4	582.92	73,798	- 6.65	834.06	48,459	- 62.0
WTR YR 1996	-	-	+ 82.4	-	-	+ 114	-	-	+ 13.4

† Elevation at 2400 hours by interpolation.

* Elevation at 2400 hours.

†† Elevation at 0800 hours on last day of month.

** Elevation at 0800 hours on first day of following month.

DIVERSIONS IN HUDSON RIVER BASIN

Undetermined diversion at Solsville from Chenango River in Susquehanna River basin into Oriskany Creek in Mohawk River Basin through Oriskany Creek Feeder.

Undetermined diversion from (and occasionally into) Oswego River, tributary to Lake Ontario, through Summit level of Erie (Barge) Canal.

Undetermined diversion from Black River tributary into Lake Ontario through Black River canal into Mohawk River in Hudson River basin.

Undetermined diversion from Hudson River basin to summit level of Champlain (Barge) Canal.

01343899 Diversion from Hinckley Reservoir (see preceding pages) for municipal supply of Utica. Diversion began prior to 1921. Records provided by Utica Board of Water Supply.

01362230 Diversion from Schoharie Reservoir (see preceding pages) on Schoharie Creek through Shandaken Tunnel to Esopus Creek at lat 42°06'52", long 74°21'51", near Phoenicia, Ulster County. No diversion prior to 1924. Records provided by Department of Environmental Protection, City of New York.

01363401 Diversion from Ashokan Reservoir (see preceding pages) on Esopus Creek through the Catskill Aqueduct for municipal supply of New York City. Completed in 1917. Records provided by Department of Environmental Protection, City of New York.

01366399 Diversion from Rondout Reservoir. Total diversion from Rondout Reservoir to Delaware Aqueduct for municipal supply of City of New York. Rondout Reservoir is a collection basin for diversion from: Cannonsville Reservoir, Pepacton Reservoir, and Neversink Reservoir in the Delaware River basin and the Rondout Creek in the Hudson River basin. Diversion began April 1944 by means of temporary emergency connection to aqueduct. Records provided by Bureau of Water Resources Development, City of New York.

01367630 Diversion from Morris Lake, tributary to Wallkill River, by Newtown Water and Sewer Authority for municipal use in New Jersey. After use the water is released into the Paulins Kill (Delaware River basin). Records available from the Delaware River Basin Commission.

DIVERSION, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Month	<u>01343899</u> <u>Hinckley Reservoir</u>	<u>01362230</u> <u>Schoharie Reservoir</u>	<u>01363401</u> <u>Ashokan Reservoir</u>	<u>01366399</u> <u>Rondout Reservoir</u>
October.....	31.7	136	885	975
November.....	30.7	96.6	697	972
December.....	30.6	230	725	1,199
CAL YR 1995	32.4	323	753	1,184
January.....	31.1	144	546	1,199
February.....	30.9	16.8	304	1,392
March.....	32.9	0.0	125	1,417
April.....	32.6	0.0	295	1,420
May.....	31.9	44.2	456	1,425
June.....	33.0	216	590	1,370
July.....	33.3	139	622	1,242
August.....	32.4	255	767	1,276
September.....	32.8	316	884	1,417
WTR YR 1996	32.0	133	576	1,274

HACKENSACK RIVER BASIN

01376800 HACKENSACK RIVER AT WEST NYACK, NY

LOCATION.--Lat 41°05'44", long 73°57'52", Rockland County, Hydrologic Unit 02030103, on right bank 20 ft downstream from Penn Central Transportation Co. railroad bridge at West Nyack, 1,000 ft upstream from State Highway 59, and 1.0 mi downstream from DeForest Lake.

DRAINAGE AREA.--30.7 mi².

PERIOD OF RECORD.--December 1958 to current year.

REVISIONS.--WDR NY-90-1: Drainage area.

GAGE.--Water-stage recorder, stop-log control, and crest-stage gage. Datum of gage is 53.50 ft above sea level (levels by Hackensack Water Co.).

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow regulated by DeForest Lake (see Reservoirs in Hackensack River Basin). Diversion from gaging station pool for municipal supply for village of Nyack (see Diversions in Hackensack River Basin). Discharge given for this station represents the flow of Hackensack River downstream from this diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,550 ft³/s, Feb. 3, 1973, gage height, 9.38 ft, from floodmarks, from rating curve extended above 840 ft³/s; maximum gage height, 10.52 ft, May 30, 1984; minimum daily discharge, about 2.2 ft³/s, Jan. 13, 1996.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,060 ft³/s, July 13, gage height, 9.51 ft; minimum daily, about 2.2 ft³/s, Jan. 13.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	7.1	7.0	12	73	45	39	116	14	48	24	16
2	8.2	15	10	13	63	44	263	70	15	47	17	16
3	8.2	7.5	13	13	e60	43	105	59	63	46	40	16
4	8.3	7.7	11	13	e53	38	63	61	210	49	22	16
5	24	7.5	12	12	50	38	54	55	160	37	17	15
6	41	7.5	13	12	46	78	46	55	75	25	16	16
7	7.7	12	11	12	42	183	46	47	48	19	16	19
8	5.0	13	12	e13	42	108	77	40	36	35	14	16
9	4.4	8.8	12	e13	47	59	70	35	27	155	16	15
10	5.9	7.9	e12	11	49	49	104	35	22	73	16	15
11	7.0	13	12	10	e50	45	68	39	18	40	17	17
12	5.6	76	12	7.3	e50	45	55	90	18	27	14	16
13	5.2	7.9	12	e2.2	45	50	56	65	21	518	15	18
14	7.9	13	12	e2.3	42	59	53	49	36	429	17	20
15	23	18	13	e4.8	39	73	44	37	31	124	18	17
16	7.5	8.8	13	9.4	39	102	463	48	22	280	16	17
17	5.9	9.3	13	12	e38	63	282	86	16	99	15	27
18	5.9	9.4	12	13	37	51	123	65	17	61	18	47
19	6.1	13	12	127	33	51	87	53	17	48	17	20
20	5.6	11	12	323	39	140	78	44	41	41	14	18
21	78	11	12	148	165	101	72	35	76	27	15	17
22	18	11	13	86	210	61	65	29	53	20	17	19
23	8.6	10	13	66	121	51	59	23	38	20	16	22
24	5.7	11	14	158	148	44	63	22	25	20	15	18
25	5.6	e19	14	292	118	39	49	17	21	18	15	19
26	6.8	e12	13	108	69	36	44	12	17	20	15	17
27	6.1	e12	13	354	59	35	47	18	17	19	15	16
28	104	e12	13	463	e56	28	38	15	18	16	16	18
29	11	12	13	146	e50	36	55	18	18	14	16	27
30	6.7	12	12	103	---	38	95	19	26	16	16	18
31	6.8	---	13	91	---	37	---	13	---	23	16	---
TOTAL	457.6	395.4	379.0	2650.0	1933	1870	2763	1370	1216	2414	531	568
MEAN	14.8	13.2	12.2	85.5	66.7	60.3	92.1	44.2	40.5	77.9	17.1	18.9
MAX	104	76	14	463	210	183	463	116	210	518	40	47
MIN	4.4	7.1	7.0	2.2	33	28	38	12	14	14	14	15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1996, BY WATER YEAR (WY)

	30.9	31.4	36.6	43.8	50.2	70.4	73.6	52.3	34.9	34.5	28.3	33.3
MEAN												
MAX	84.2	88.6	121	125	152	151	204	162	162	127	83.3	100
(WY)	1990	1976	1973	1978	1973	1961	1983	1989	1972	1984	1966	1975
MIN	7.27	7.59	5.63	8.95	10.3	6.95	9.61	7.04	12.7	11.6	12.3	9.34
(WY)	1967	1967	1967	1967	1967	1981	1966	1965	1981	1977	1981	1962

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1959 - 1996

ANNUAL TOTAL	10014.9	16547.0	
ANNUAL MEAN	27.4	45.2	43.6
HIGHEST ANNUAL MEAN			74.1
LOWEST ANNUAL MEAN			13.4
HIGHEST DAILY MEAN	248	Mar 9	518
LOWEST DAILY MEAN	4.4	Oct 9	2.2
ANNUAL SEVEN-DAY MINIMUM	5.8	Oct 7	5.8
10 PERCENT EXCEEDS	42		96
50 PERCENT EXCEEDS	25		20
90 PERCENT EXCEEDS	9.1		8.7

e Estimated

HACKENSACK RIVER BASIN

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01377000 HACKENSACK RIVER AT RIVERVALE, NJ

LOCATION.--Lat 40°59'55", long 73°59'27", Bergen County, Hydrologic Unit 02030103, on upstream right bank at bridge on Westwood Avenue in Rivervale, 1.5 mi upstream from Pascack Brook, 4.6 mi upstream from Oradell Dam, and 27.2 mi upstream from mouth.

DRAINAGE AREA.--58.0 mi².

PERIOD OF RECORD.--October 1941 to current year.

REVISED RECORDS.--WDR-NJ-80-1: 1968-79(M).

GAGE.--Water-stage recorder, crest-stage gages, and concrete control. Datum of gage is 22.51 ft above sea level.

REMARKS.--Records good. Flow regulated by De Forest Lake (since Feb. 1956) and Lake Tappan (since 1965), see Hackensack River basin, reservoirs in. Diversions from De Forest Lake and West Nyack, NY, for municipal water supply (see Hackensack River basin, diversions). Water occasionally diverted from Oradell Reservoir to Lake Tappan. Several measurements of water temperature were made during the year. United Water New Jersey gage-height telemeter at station.

COOPERATION.--Gage-height record collected in cooperation with United Water New Jersey.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	12	6.9	82	146	100	87	188	27	59	51	82
2	8.7	35	6.8	69	125	100	416	158	36	38	54	96
3	8.7	16	6.3	44	125	97	266	123	144	42	78	129
4	8.2	13	7.5	39	115	88	148	115	523	44	69	129
5	28	11	6.9	38	101	83	119	104	266	44	53	127
6	70	11	14	38	89	139	101	107	168	43	47	126
7	7.8	19	16	39	81	277	100	100	116	40	42	126
8	5.0	28	15	55	79	258	147	89	88	64	38	124
9	4.5	14	16	75	91	152	140	80	72	152	36	122
10	4.4	12	16	64	103	120	197	86	60	141	36	122
11	4.4	11	18	40	110	105	166	92	53	95	36	122
12	4.5	115	43	40	107	103	130	178	49	69	34	123
13	4.7	14	66	40	92	113	128	145	49	491	41	114
14	8.0	21	66	40	84	125	113	110	50	1140	67	86
15	50	35	61	40	78	140	98	88	51	320	80	53
16	8.8	12	61	40	76	171	940	97	48	304	80	34
17	7.2	10	58	40	82	152	896	152	44	222	80	60
18	8.1	9.6	58	40	73	129	271	134	44	125	79	73
19	8.1	11	57	171	65	124	178	112	47	94	92	39
20	7.8	9.5	58	81	75	232	146	96	54	80	131	36
21	89	8.6	52	43	251	232	131	81	69	57	131	35
22	26	7.8	53	40	401	156	118	72	76	48	119	43
23	10	7.2	59	40	234	121	106	61	75	48	118	41
24	8.6	7.1	81	69	255	100	113	54	62	47	119	35
25	8.4	7.8	110	235	236	87	95	48	56	44	98	36
26	7.9	9.6	107	262	159	81	85	41	45	48	90	33
27	7.6	8.3	103	498	132	75	91	36	37	47	82	33
28	143	7.2	98	1110	124	67	78	35	83	43	82	34
29	17	8.4	77	429	117	82	94	33	126	39	82	51
30	13	7.8	74	205	---	87	142	35	111	38	82	36
31	11	---	82	180	---	83	---	30	---	49	82	---
TOTAL	607.5	498.9	1553.4	4226	3806	3979	5840	2880	2729	4115	2309	2300
MEAN	19.6	16.6	50.1	136	131	128	195	92.9	91.0	133	74.5	76.7
MAX	143	115	110	1110	401	277	940	188	523	1140	131	129
MIN	4.4	7.1	6.3	38	65	67	78	30	27	38	34	33

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

	MEAN	59.9	70.7	77.9	89.4	92.5	137	140	102	74.3	78.4	70.9	63.6
MAX	312	240	202	251	221	379	438	310	319	339	197	177	
(WY)	1956	1956	1973	1949	1951	1953	1983	1989	1972	1945	1955	1975	
MIN	12.1	16.6	12.6	22.6	23.0	11.2	14.5	20.4	13.4	11.6	11.3	7.87	
(WY)	1942	1996	1981	1982	1967	1981	1981	1981	1957	1954	1944	1953	

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1942 - 1996

ANNUAL TOTAL	18771.1	34843.8	
ANNUAL MEAN	51.4	95.2	88.0
HIGHEST ANNUAL MEAN			156
LOWEST ANNUAL MEAN			30.9
HIGHEST DAILY MEAN	213	Mar 22	2190
LOWEST DAILY MEAN	4.4	Oct 10	4.4
ANNUAL SEVEN-DAY MINIMUM	5.0	Oct 7	5.0
INSTANTANEOUS PEAK FLOW			2530
INSTANTANEOUS PEAK STAGE			5.64
INSTANTANEOUS LOW FLOW			4.2
10 PERCENT EXCEEDS	107	161	171
50 PERCENT EXCEEDS	35	74	60
90 PERCENT EXCEEDS	9.5	9.6	21

HACKENSACK RIVER BASIN

RESERVOIRS IN HACKENSACK RIVER BASIN

01376700 DE FOREST LAKE--Lat 41°06'23", long 73°58'01", Rockland County, NY, Hydrologic Unit 02030103, at dam on Hackensack River, 0.8 mi north of West Nyack, NY. **DRAINAGE AREA**, 27.5 mi². **PERIOD OF RECORD**, February 1956 to current year. **REVISED RECORDS**--WDR NJ-84-1: Drainage area. **GAGE**, water-stage recorder. Datum of gage is sea level. **REMARKS**--Reservoir is formed by earthfill dam with sheet piling cutoff and concrete spillway; dam completed and storage began in February 1956. Crest of dam topped by two 50 ft Bascule gates, 5 ft high. Capacity 5,670,000,000 gal, elevation, 85.00 ft, top of Bascule gates. Flow regulated by 12-inch Howell-Bunger valve at elevation, 59.25 ft and 24-inch Howell-Bunger valve at elevation, 61.25 ft. Reservoir used for storage and water released by United Water New Jersey for municipal water supply. **COOPERATION**--Records provided by United Water New Jersey.

01376950 LAKE TAPPAN--Lat 41°01'05", long 74°00'05", Bergen County, Hydrologic Unit 02030103, at dam on Hackensack River, 0.5 mi north of Old Tappan. **DRAINAGE AREA**, about 49.0 mi². **PERIOD OF RECORD**, October 1966 to current year. **REVISED RECORDS**, WDR NJ-89-1: Capacity. **GAGE**, water-stage recorder. Datum of gage is sea level. **REMARKS**--Reservoir is formed by earthfill dam, completed in 1966. Capacity, 3,853,000,000 gal, elevation, 55.00 ft at top of Bascule gates. Flow regulated by four Bascule gates and one sluice gate. Water is released for diversion at New Milford (diversion discontinued May 1990) and Haworth by United Water New Jersey for municipal water supply. **COOPERATION**--Records provided by United Water New Jersey.

01377450 WOODCLIFF LAKE--Lat 41°01', long 74°03', Bergen County, Hydrologic Unit 02030103, at dam on Pascack Brook, 0.7 mi north of Hillsdale. **DRAINAGE AREA**, 19.4 mi². **PERIOD OF RECORD**, December 1929 to current year. Monthend contents only, prior to September 1953, published in WSP 1302, 1722. **REVISED RECORDS**, WDR NJ-89-1: Capacity. **GAGE**, water-stage recorder. Datum of gage is sea level. **REMARKS**--Reservoir is formed by earthfill dam, completed about 1905. The dam was modified in 1984, which increased capacity, 871,000,000 gal, elevation, 95.00 ft at top of Bascule gates. Flow is regulated by two Bascule gates 85 ft long and 6 ft high each and one 24-inch Ball valve. Water is released for diversion at New Milford (diversion discontinued May 1990) and Haworth by United Water New Jersey for municipal supply. **COOPERATION**--Records provided by United Water New Jersey.

01378480 ORADELL RESERVOIR--Lat 40°57', long 74°02', Bergen County, Hydrologic Unit 02030103, at dam on Hackensack River at Oradell. **DRAINAGE AREA**, 113 mi². **PERIOD OF RECORD**, December 1922 to current year. Monthend contents only, prior to September 1953, published in WSP 1302, 1722. **REVISED RECORDS**--WDR NJ-84-1: Spillway elevation, WDR NJ-89-1: Capacity. **GAGE**, water-stage recorder. Datum of gage is sea level. **REMARKS**--Reservoir is formed by hollow concrete dam, completed in 1922. Capacity at spillway level, 3,507,000,000 gal, elevation, 23.16 ft. Flow regulated by seven sluice gates (7 by 9 ft). Prior to May 1990, water was released for diversion by United Water New Jersey 1 mi downstream from dam for municipal supply. Water is diverted from reservoir at Haworth by United Water New Jersey for municipal supply. **COOPERATION**--Records provided by United Water New Jersey.

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

Date	Elevation (feet)†	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)	Elevation (feet)†	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)
01376700 DE FOREST LAKE				01376950 LAKE TAPPAN		
Sept. 30.....	73.7	2,326	--	41.9	400	--
Oct. 31.....	79.0	3,837	+75.4	48.8	1,874	+73.6
Nov. 30.....	83.1	5,060	+63.1	52.8	3,083	+62.4
Dec. 31.....	83.3	5,119	+2.9	51.5	2,653	-21.5
CAL YR 1995	-	-	-3	-	-	+3.2
Jan. 31.....	85.3	5,767	+32.3	55.4	3,991	+66.8
Feb. 29.....	85.2	5,747	-1.1	55.3	3,954	-2.0
Mar. 31.....	85.2	5,733	-7	55.2	3,944	-5
Apr. 30.....	85.3	5,773	+2.1	55.4	4,004	+3.1
May 31.....	84.8	5,628	-7.2	55.1	3,883	-6.0
June 30.....	85.0	5,659	+1.6	54.8	3,785	-5.1
July 31.....	85.0	5,678	+9	55.1	3,896	+5.5
Aug. 31.....	83.9	5,327	-17.5	52.4	2,968	-46.3
Sept. 30.....	83.9	5,313	-7	50.7	2,404	-29.1
WTR YR 1996	-	-	+12.6	-	-	+8.4
Date	Elevation (feet)†	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)	Elevation (feet)†	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)
01377450 WOODCLIFF LAKE				01378480 ORADELL RESERVOIR		
Sept. 30.....	88.6	531	--	20.0	2,707	--
Oct. 31.....	90.4	623	+4.6	22.9	3,442	+36.7
Nov. 30.....	91.0	655	+1.7	20.4	2,803	-33.0
Dec. 31.....	88.0	501	-7.7	18.4	2,318	-24.2
CAL YR 1995	-	-	-6	-	-	-8
Jan. 31.....	91.2	663	+8.1	23.3	3,545	+61.2
Feb. 29.....	91.1	659	-2	23.3	3,527	-1.0
Mar. 31.....	89.5	576	-4.1	23.2	3,526	0
Apr. 30.....	89.6	582	+3	23.3	3,550	+1.2
May 31.....	91.0	653	+3.5	21.7	3,110	-22.0
June 30.....	93.7	799	+7.5	19.6	2,603	-26.1
July 31.....	91.8	695	-5.2	21.2	2,987	+19.2
Aug. 31.....	89.9	597	-4.9	19.3	2,537	-22.5
Sept. 30.....	91.2	663	+3.4	20.6	2,833	+15.3
WTR YR 1996	-	-	+6	-	-	+4

† Elevation at 2400 of the last day of each month.

HACKENSACK RIVER BASIN

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DIVERSIONS INTO AND FROM HACKENSACK RIVER BASIN

- 01376272 United Water New Jersey diverts water from Sparkill Creek (Hudson River basin) at foot of Danny Lane in Northvale, 300 ft south of New York-New Jersey state line and 0.6 mi upstream of Sparkill Brook. Water is diverted into Oradell Reservoir on the Hackensack River, for municipal supply. Records provided by United Water New Jersey.
- 01376699 United Water New York diverts water from De Forest Lake for municipal supply in Rockland County, NY. Records provided by United Water New York.
- 01376810 Village of Nyack, NY, diverts water from Hackensack River 100 ft downstream from gaging station on Hackensack River at West Nyack, NY (station 01376800, measured flow includes diversions) for municipal supply. Records provided by Board of Water Commissioners of Nyack, NY.
- 01378490 United Water New Jersey diverts water for municipal supply from Oradell Reservoir at Haworth pumping station (station 01378478) 2.0 mi upstream from gaging station on Hackensack River at New Milford and prior to May 1990 from Hackensack River, at New Milford pumping station just upstream of gaging station on Hackensack River at New Milford, NJ (station 01378500). Diversion from the New Milford pumping station was discontinued in May 1990. Records provided by United Water New Jersey.
- 01378520 United Water New Jersey diverts water from Hirshfeld Brook, a tributary of the Hackensack River, below the gaging station on Hackensack River at New Milford, NJ, for municipal supply. Records provided by United Water New Jersey.
- 01388981 United Water New Jersey diverts water from the Wanaque South pumping station on the Pompton River at Two Bridges, 750 ft upstream from the Passaic River, to Oradell Reservoir. Water can also be diverted from Wanaque Reservoir to Oradell Reservoir in the Hackensack River basin. Figures given herein include diversion from both sources. Formerly diversion was from the Ramapo River (station 01387991). Records provided by United Water New Jersey.
- 01391210 United Water New Jersey diverts water from Saddle River (Passaic River basin) just north of bridge on State Route 4 at Arcola. Water is diverted into Oradell Reservoir on the Hackensack River, for municipal supply. Records provided by United Water New Jersey.

DIVERSIONS, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

MONTH	01376699 UNITED WATER NEW YORK	01376810 WEST NYACK, NY	01378490 UNITED WATER NEW JERSEY
October.....	7.31	2.07	139
November.....	7.31	2.08	142
December.....	7.49	2.26	145
CAL YR 1995	9.77	2.69	157
January.....	7.31	2.11	148
February.....	8.40	2.16	131
March.....	7.32	2.14	143
April.....	7.34	2.21	144
May.....	12.69	2.41	155
June.....	14.51	2.49	177
July.....	14.74	2.36	151
August.....	15.40	2.77	160
September.....	12.33	2.84	153
WTR YR 1996	10.18	2.32	149

The following are diversions by pumpage from sources other than the Hackensack River into Oradell Reservoir. These figures are included in diversions from Hackensack River as noted above (station 01378490).

MONTH	01376272 SPARKILL CREEK (HUDSON RIVER BASIN)	01378520 HIRSHFELD BROOK (HACKENSACK RIVER BASIN)	01388981 POMPTON RIVER (PASSAIC RIVER BASIN)	01391210 SADDLE RIVER (PASSAIC RIVER BASIN)	WELLS TO SURFACE SUPPLY
October.....	0.67	1.80	30.44	10.35	1.70
November.....	0	0	1.20	.01	.10
December.....	0	0	11.17	3.52	.30
CAL YR 1995	.37	1.06	30.82	6.04	1.15
January.....	0	0	30.62	0	.44
February.....	0	0	0	0	.63
March.....	0	0	0	0	.38
April.....	0	0	0	0	.44
May.....	0	0	0	0	.42
June.....	0	0	4.46	2.50	.42
July.....	0	0	15.86	3.12	.44
August.....	0	0	5.45	9.53	.42
September.....	0	2.01	8.51	12.93	.40
WTR YR 1996	.06	.32	8.98	3.50	.51

PASSAIC RIVER BASIN

01387400 RAMAPO RIVER AT RAMAPO, NY

LOCATION.--Lat 41°08'25", long 74°10'08", Rockland County, Hydrologic Unit 02030103, on right bank, 105 ft downstream from highway bridge on New York State Thruway at Ramapo, 500 ft upstream from local bridge, and 0.3 mi upstream from Torne Brook.

DRAINAGE AREA.--86.9 mi².

PERIOD OF RECORD.--June 1979 to current year.

REVISED RECORDS.--WDR NY-81-1: 1980(m). WDR NY-90-1: Drainage area.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 297.00 ft above sea level.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Occasional regulation by Lake Sebago.

AVERAGE DISCHARGE.--17 years, 166 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,700 ft³/s, Apr. 5, 1984, gage height, 13.82 ft, from rating curve extended above 3,600 ft³/s on basis of runoff comparison with station 1.5 mi downstream; minimum discharge, 5.3 ft³/s, Aug. 7, 1983, gage height, 1.27 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 6,100 ft³/s, Mar. 12, 1936, by computation of flow over dam.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,050 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 12	1345	2,980	7.08	Jan. 25	unknown	a1,300	unknown
Nov. 15	1800	1,420	4.92	Jan. 28	unknown	a3,500	unknown
Jan. 20	0300	*4,120	*8.34	July 14	unknown	a2,800	b7.05

a About.

b From crest-stage gage.

Minimum discharge, 12 ft³/s, Oct. 3, 4, 5, gage height, 1.46 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	238	112	50	e400	277	201	666	57	138	84	18
2	13	231	115	51	e350	253	493	490	49	107	82	19
3	13	220	110	e50	e300	241	438	371	128	e180	85	19
4	12	187	106	e50	e250	214	333	365	558	e240	99	19
5	31	157	99	e50	e220	206	295	314	680	e180	87	19
6	241	140	93	e50	e190	264	274	316	417	e120	70	20
7	125	139	91	50	e190	323	259	305	276	e85	59	24
8	74	219	84	e70	e180	294	320	262	212	e75	50	80
9	55	198	82	e98	e190	257	318	233	175	e230	48	106
10	42	165	e75	e90	e190	228	322	233	151	e180	50	69
11	34	176	e70	79	e190	213	317	255	140	e140	42	46
12	28	2520	e63	71	e180	208	297	517	127	e100	35	34
13	24	1620	e60	e70	e150	208	311	400	122	e1000	48	30
14	24	838	60	e70	e140	224	300	303	145	e2100	68	59
15	97	1310	68	e68	e120	297	271	263	111	e1000	47	46
16	98	1090	68	e65	e110	347	697	253	85	643	38	33
17	73	651	68	66	e130	305	920	283	71	505	59	81
18	56	463	68	69	e110	276	582	244	85	283	52	606
19	49	396	68	1230	e100	262	432	222	107	238	37	511
20	46	332	78	3520	e120	489	357	200	135	204	32	235
21	137	283	89	1730	e400	462	313	173	147	155	30	155
22	428	244	75	795	e680	367	275	162	124	127	28	129
23	267	213	69	528	615	312	252	138	101	124	25	169
24	187	192	66	596	635	277	228	120	77	132	21	135
25	144	176	64	e1000	604	246	198	100	72	113	29	123
26	120	163	62	e800	473	229	185	87	64	139	27	106
27	106	e150	e58	e1500	394	208	183	80	50	141	22	87
28	690	140	57	e3000	359	191	164	76	44	103	20	78
29	686	134	54	e1300	322	189	224	71	41	83	19	153
30	372	123	51	e750	---	193	479	68	62	79	19	143
31	265	---	50	e500	---	198	---	61	---	78	18	---
TOTAL	4551	13108	2333	18416	8292	8258	10238	7631	4613	9022	1430	3352
MEAN	147	437	75.3	594	286	266	341	246	154	291	46.1	112
MAX	690	2520	115	3520	680	489	920	666	680	2100	99	606
MIN	12	123	50	50	100	189	164	61	41	75	18	18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 1996, BY WATER YEAR (WY)

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
MEAN	91.4	174	198	185	200	311	342	208	110	66.4	51.6	58.1						
MAX	352	437	642	594	424	774	802	704	267	291	270	206						
(WY)	1990	1996	1984	1996	1981	1983	1984	1989	1982	1996	1990	1987						
MIN	14.5	19.8	39.9	16.8	46.8	122	84.9	74.1	27.1	13.7	10.7	10.8						
(WY)	1985	1985	1981	1981	1980	1981	1985	1995	1987	1993	1981	1981						

e Estimated

PASSAIC RIVER BASIN

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01387400 RAMAPO RIVER AT RAMAPO, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1979 - 1996	
ANNUAL TOTAL	46887.1		91244			
ANNUAL MEAN	128		249		166	
HIGHEST ANNUAL MEAN					284	
LOWEST ANNUAL MEAN					80.4	
HIGHEST DAILY MEAN	2520	Nov 12	3520	Jan 20	6300	Apr 5 1984
LOWEST DAILY MEAN	9.0	Sep 12	12	Oct 4	7.9	Sep 20 1983
ANNUAL SEVEN-DAY MINIMUM	9.4	Sep 10	19	Aug 29	8.1	Sep 1 1981
10 PERCENT EXCEEDS	237		513		351	
50 PERCENT EXCEEDS	75		140		89	
90 PERCENT EXCEEDS	14		42		17	

PASSAIC RIVER BASIN

01387420 RAMAPO RIVER AT SUFFERN, NY

LOCATION.--Lat 41°07'06", long 74°09'38", Rockland County, Hydrologic Unit 02030103, on left bank, 145 ft downstream from highway bridge on New York State Thruway at Suffern, and 1.1 mi upstream from Mahwah River.

DRAINAGE AREA.--93.0 mi².

PERIOD OF RECORD.--June 1979 to current year.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 264.44 ft above sea level.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow affected by diversion from United Water New York well field upstream from station and by occasional regulation by Lake Sebago.

AVERAGE DISCHARGE.--17 years, 172 ft³/s, unadjusted.

COOPERATION.--Figures of pumpage from well field provided by United Water New York.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,300 ft³/s, Apr. 5, 1984, gage height, 15.38 ft, from rating curve extended above 5,400 ft³/s; minimum discharge, 1.7 ft³/s, Sept. 7, 1995, gage height, 1.04 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 6,600 ft³/s, Mar. 12, 1936, by computation of flow over dam at site 0.65 mi upstream, drainage area, 90.6 mi².

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,100 ft³/s and maximum(*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 28	1830	1,110	5.63	Jan. 25	0830	1,420	6.34
Nov. 12	1415	3,710	9.89	Jan. 28	0145	3,990	10.15
Nov. 15	1915	1,580	6.67	July 14	0200	2,900	9.01
Jan. 20	0215	*4,970	*10.99				

Minimum discharge, 8.0 ft³/s, Oct. 3, 4, 5, gage height, 1.31 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	244	111	48	447	288	199	682	51	149	88	11
2	9.0	251	118	51	378	265	527	523	41	105	83	13
3	8.4	232	108	94	337	248	467	410	146	173	86	12
4	8.0	191	106	e130	e280	217	351	406	586	231	99	12
5	33	151	96	e100	e230	206	304	346	718	149	88	11
6	285	132	95	e90	e220	286	277	347	459	101	71	12
7	122	141	90	e85	e200	350	268	332	305	75	59	17
8	65	239	82	e100	193	307	348	283	233	86	48	63
9	47	203	76	e90	199	269	334	253	186	218	44	95
10	36	160	86	e80	203	232	345	260	154	201	46	60
11	30	184	e80	e75	205	213	338	279	139	126	37	38
12	24	3190	e75	e70	203	208	314	549	121	92	30	27
13	20	1930	e70	e65	153	216	331	436	128	1260	40	23
14	21	967	e70	e65	150	248	315	336	155	2370	62	50
15	97	1460	78	e65	126	328	278	286	107	1010	42	39
16	91	1210	72	e65	116	381	741	282	81	645	34	26
17	65	733	72	e70	e130	325	923	313	67	423	53	73
18	50	527	69	e70	e110	289	620	265	81	310	48	615
19	45	444	64	e1000	106	269	475	243	101	262	33	545
20	42	371	78	3950	126	528	399	218	140	227	26	254
21	147	313	80	1690	480	498	344	183	147	167	23	165
22	477	270	72	811	702	395	298	165	117	133	20	134
23	292	235	70	578	641	331	271	132	93	135	18	180
24	194	212	68	713	670	285	248	113	74	141	16	140
25	138	188	62	1330	645	254	215	95	72	118	23	124
26	113	169	59	863	513	233	200	81	62	148	22	103
27	99	154	e58	1750	421	206	198	76	48	148	16	86
28	850	139	e55	3260	388	181	163	72	43	106	14	76
29	772	133	e52	1480	342	195	240	68	38	87	13	159
30	399	121	50	837	---	206	512	64	67	81	13	148
31	275	---	49	608	---	210	---	58	---	82	12	---
TOTAL	4864.0	14894	2371	20283	8914	8667	10843	8156	4760	9559	1307	3311
MEAN	157	496	76.5	654	307	280	361	263	159	308	42.2	110
MAX	850	3190	118	3950	702	528	923	682	718	2370	99	615
MIN	8.0	121	49	48	106	181	163	58	38	75	12	11
†	13	15	14	11	12	12	12	12	14	11	10	12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 1996, BY WATER YEAR (WY)

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
MEAN	93.3	189	206	197	211	322	356	220	107	64.6	51.8	59.2						
MAX	389	496	693	654	475	816	862	777	269	308	305	219						
(WY)	1990	1996	1984	1996	1981	1983	1984	1989	1982	1996	1990	1987						
MIN	11.0	17.1	29.6	6.84	49.7	128	77.1	79.4	19.2	8.03	7.40	8.17						
(WY)	1985	1985	1981	1981	1980	1981	1985	1995	1995	1993	1993	1995						

e Estimated

† Diversion, in cubic feet per second, by pumpage from well field upstream of station.

PASSAIC RIVER BASIN

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01387420 RAMAPO RIVER AT SUFFERN, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1979 - 1996	
ANNUAL TOTAL	51385.2		97929.0			
ANNUAL MEAN	141		268		172	
ANNUAL MEAN (+)	12		12			
HIGHEST ANNUAL MEAN					295 1984	
LOWEST ANNUAL MEAN					78.2 1985	
HIGHEST DAILY MEAN	3190	Nov 12	3950	Jan 20	7110	Apr 5 1984
LOWEST DAILY MEAN	2.3	Sep 7	8.0	Oct 4	2.3	Sep 7 1995
ANNUAL SEVEN-DAY MINIMUM	3.1	Sep 7	12	Aug 31	3.1	Sep 7 1995
10 PERCENT EXCEEDS	271		558		371	
50 PERCENT EXCEEDS	78		148		87	
90 PERCENT EXCEEDS	11		38		13	

‡ Diversion, in cubic feet per second, by pumpage from well field upstream of station.

LOCATION.--Lat 41°05'51", long 74°09'48", Bergen County, Hydrologic Unit 02030103, on left bank 350 ft downstream from State Highway 17, 0.6 mi downstream from Mahwah River, and 1.0 mi west of Mahwah. Water-quality samples collected at bridge, 350 ft upstream from gage, at high flows.

PERIOD OF RECORD.--October 1902 to December 1906, September 1922 to current year. October 1902 to February 1905 monthly discharge only, published in WSP 1302. Figures of daily discharge Feb. 10, 1903, to Dec. 31, 1904, published in WSP 97, 125, are unreliable and should not be used. Gage-height records for 1903-14 are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 781: 1904(M). WSP 1031: 1938, 1940. WSP 1552: 1923(M), 1924, 1925-26(M), 1927-28, 1933, 1937. WRD-NJ 1971: 1968(M). WDR NJ-82-1: Drainage area. WDR-NJ-87-1: 1986.

GAUGE.--Water-stage recorder. Datum of gage is 253.10 ft above sea level. Prior to Dec. 31, 1906, nonrecording gage on former bridge at site 250 ft downstream at different datum. Sept. 1, 1922, to Dec. 23, 1936, water-stage recorder just below former bridge at present datum.

REMARKS.--Records fair. Flow affected by diversion from United Water New York well field upstream from station (see station 01387420). Occasional regulation from lakes and ponds upstream from the station. Several measurements of water temperature were made during the year. Satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,400 ft³/s and maximum (*):

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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 1996, BY WATER YEAR (WY)

MEAN	142	227	271	268	280	444	404	258	152	101	101	108
MAX	954	736	873	877	701	1151	1055	994	735	602	755	478
(WY)	1904	1978	1984	1979	1970	1936	1984	1989	1972	1945	1955	1927
MIN	13.8	24.4	43.4	16.5	70.8	144	88.4	79.5	30.7	15.8	11.3	11.1
(WY)	1942	1965	1981	1981	1980	1985	1985	1905	1995	1993	1993	1964

e Estimated

PASSAIC RIVER BASIN

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01387500 RAMAPO RIVER NEAR MAHWAH, NJ--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1903 - 1996	
ANNUAL TOTAL	64042.3		117619.6			
ANNUAL MEAN	175		321		229	
HIGHEST ANNUAL MEAN					461	1903
LOWEST ANNUAL MEAN					99.5	1985
HIGHEST DAILY MEAN	3790	Nov 12	3790	Nov 12	8920	Oct 9 1903
LOWEST DAILY MEAN	2.7	Sep 7	8.4	Oct 4	1.2	Aug 12 1993
ANNUAL SEVEN-DAY MINIMUM	3.7	Sep 7	23	Aug 31	3.7	Sep 7 1995
INSTANTANEOUS PEAK FLOW			4330	Nov 12	a15500	Apr 5 1984
INSTANTANEOUS PEAK STAGE			8.88	Nov 12	13.35	Apr 5 1984
INSTANTANEOUS LOW FLOW			7.3	Oct 4	.20	Aug 11 1993
ANNUAL RUNOFF (CFSM)	1.46		2.68		1.91	
ANNUAL RUNOFF (INCHES)	19.85		36.46		25.97	
10 PERCENT EXCEEDS	343		677		510	
50 PERCENT EXCEEDS	97		195		138	
90 PERCENT EXCEEDS	14		46		28	

a From rating curve extended above 6,500 ft³/s.

01413500 EAST BRANCH DELAWARE RIVER AT MARGARETVILLE, NY

LOCATION.--Lat 42°08'41", long 74°39'14", Delaware County, Hydrologic Unit 02040102, on right bank at downstream side of bridge on Fair Street at intersection with Main Street at Margaretville, 0.2 mi upstream from unnamed tributary, and 1.6 mi downstream from Dry Brook.

DRAINAGE AREA.--163 mi².

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

REVISED RECORDS.--WDR NY-87-1: 1948(M), 1951(P), 1953(M), 1955-56(M), 1974-75(M), 1977(M), 1978(P), 1980-81(M), 1986(M).

GAGE.--Water-stage recorder. Datum of gage is 1,302.38 ft above sea level. Prior to Sept. 9, 1937, nonrecording gage and Sept. 9, 1937 to Aug. 17, 1944, water-stage recorder, at same site at datum 1.00 ft higher.

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

AVERAGE DISCHARGE.--59 years, 306 ft³/s, 25.49 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,800 ft³/s, Jan. 19, 1996, gage height, 14.88 ft, from floodmark in gage well, 16.5 ft from outside floodmarks, from rating curve extended above 16,000 ft³/s on basis of runoff comparison of peak flow from slope-area measurement at site 1.7 mi downstream; minimum discharge, 5.0 ft³/s, Aug. 5, 1964; minimum gage height, 0.89 ft, Sept. 30, Oct. 1, 1943, present datum.

EXTREMES 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)
Oct. 21	1845	4,290	8.11	Apr. 16	1515	3,220	7.51
Nov. 12	0515	4,730	8.47	Apr. 30	2245	3,020	7.33
Jan. 19	1845	a*25,800	b*14.88	June 8	0600	3,580	7.49
Jan. 27	1815	8,380	10.80	July 13	1845	3,040	6.98

a From rating curve extended as explained above.

b From floodmark in gage well; outside gage height was 16.5 ft, from floodmarks.

Minimum discharge, 11 ft³/s, Oct. 3, 4, gage height, 1.68 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	496	409	102	e650	e450	423	1920	127	104	216	37
2	12	529	419	104	e560	e400	475	1340	114	88	199	35
3	12	548	365	e92	e450	e360	430	1080	107	110	162	36
4	19	467	420	e86	e380	e300	401	962	146	235	145	38
5	41	398	359	e80	e350	341	359	830	146	272	139	38
6	199	357	340	e80	e320	450	313	847	110	180	128	37
7	117	331	306	e90	e300	e320	311	751	97	151	114	40
8	84	322	274	e100	e280	e280	322	645	1950	132	103	51
9	64	285	e230	e110	337	e250	295	593	1170	124	161	51
10	54	253	e230	114	279	e240	296	598	1120	112	196	45
11	46	253	e200	99	e260	e220	266	1160	898	97	133	42
12	41	2600	e180	97	e220	e220	273	1760	675	87	111	38
13	37	1350	e170	99	e160	e210	436	1420	564	1100	103	36
14	43	1070	178	97	e130	e300	1230	1130	483	1480	91	38
15	216	1330	212	e90	e120	464	1030	929	380	1280	83	37
16	139	1030	189	e85	e110	445	2380	794	310	1270	82	35
17	107	817	172	e115	e100	382	2130	700	265	851	82	43
18	91	689	158	309	e85	400	1470	635	235	621	73	171
19	82	628	e140	11300	e80	413	1130	587	239	607	65	106
20	75	572	e130	7020	165	800	999	491	245	583	59	65
21	1680	537	e130	2300	781	679	985	448	214	407	55	53
22	1640	493	e130	1430	731	593	852	411	183	331	51	51
23	821	422	134	1080	734	514	863	343	161	286	49	124
24	568	371	127	1560	903	455	1010	301	138	255	77	94
25	443	328	123	1610	836	441	794	255	135	226	68	92
26	358	309	120	1060	704	542	714	227	120	450	53	78
27	303	293	115	3890	617	498	679	204	103	329	48	69
28	1390	419	e100	2750	652	478	577	185	108	252	46	71
29	947	441	e100	1530	e540	474	815	173	94	212	44	202
30	722	396	e95	1190	---	451	1420	155	112	202	41	137
31	584	---	104	923	---	433	---	143	---	195	39	---
TOTAL	10948	18334	6359	39592	11834	12803	23678	22017	10749	12629	3016	1990
MEAN	353	611	205	1277	408	413	789	710	358	407	97.3	66.3
MAX	1680	2600	420	11300	903	800	2380	1920	1950	1480	216	202
MIN	12	253	95	80	80	210	266	143	94	87	39	35
CFSM	2.17	3.75	1.26	7.84	2.50	2.53	4.84	4.36	2.20	2.50	.60	.41
IN.	2.50	4.18	1.45	9.04	2.70	2.92	5.40	5.02	2.45	2.88	.69	.45

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

MEAN	173	312	362	323	323	553	731	410	201	116	79.2	103
MAX	1059	761	1191	1277	1144	1486	1808	879	554	538	674	685
(WY)	1956	1952	1974	1996	1981	1977	1958	1989	1972	1938	1955	1938
MIN	9.24	10.1	86.4	54.9	55.0	181	187	129	42.9	17.2	13.6	8.52
(WY)	1965	1965	1965	1961	1980	1965	1946	1987	1965	1965	1993	1964

e Estimated

DELAWARE RIVER BASIN

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01413500 EAST BRANCH DELAWARE RIVER AT MARGARETVILLE, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1937 - 1996	
ANNUAL TOTAL	89644.9		173949			
ANNUAL MEAN	246		475			
HIGHEST ANNUAL MEAN					306	
LOWEST ANNUAL MEAN					489	1978
HIGHEST DAILY MEAN					138	1965
LOWEST DAILY MEAN	2600	Nov 12	11300	Jan 19	11300	Jan 19 1996
ANNUAL SEVEN-DAY MINIMUM	8.5	Aug 30	12	Oct 2	6.0	Sep 25 1964
ANNUAL RUNOFF (CFSM)	9.0	Aug 25	37	Aug 31	6.8	Sep 21 1964
ANNUAL RUNOFF (INCHES)	1.51		2.92		1.88	
10 PERCENT EXCEEDS	20.46		39.70		25.50	
50 PERCENT EXCEEDS	570		1080		700	
90 PERCENT EXCEEDS	134		265		168	
	16		54		29	

DELAWARE RIVER BASIN

01414500 MILL BROOK NEAR DUNRAVEN, NY

LOCATION.--Lat 42°06'22", long 74°43'51", Delaware County, Hydrologic Unit 02040102, on left bank 0.4 mi upstream from bridge on New York City Road 9 and Pepacton Reservoir, and 2.7 mi southwest of Dunraven.

DRAINAGE AREA.--25.2 mi².

PERIOD OF RECORD.--February 1937 to current year. Published as "at Arena" 1937-67.

REVISED RECORDS.--WSP 1432: 1937. WDR NY-82-1: Drainage area. WDR NY-84-1: 1979-83.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,298.54 ft Board of Water Supply, City of New York datum. Prior to Oct. 17, 1939, nonrecording gage at site 0.2 mi downstream at different datum. Oct. 17 to Dec. 8, 1939, nonrecording gage at present site at different datum.

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

AVERAGE DISCHARGE.--59 years, 54.8 ft³/s, 29.53 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,380 ft³/s, Jan. 19, 1996, gage height, 12.56 ft, from rating curve extended above 2,740 ft³/s on basis of flow-through-curve measurement of peak flow; minimum discharge observed, 1.2 ft³/s, Sept. 25, 26, 1939.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 740 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 21	1630	1,190	7.43	Jan. 19	1630	a*5,380	*12.56
Nov. 12	0145	1,130	7.30	Jan. 27	1600	1,330	7.77

a From rating curve extended as explained above.

Minimum discharge, 2.6 ft³/s, Oct. 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	87	60	e15	e82	e72	71	e160	e24	16	40	6.3
2	3.2	95	57	e14	e66	e65	81	e280	e21	14	35	6.1
3	3.1	101	53	e13	e54	e58	75	e200	e19	17	30	5.9
4	6.9	95	56	e11	e47	e52	70	e160	e18	35	27	5.8
5	11	82	49	e13	e42	e47	68	e140	e19	37	25	5.7
6	42	74	48	e15	e39	e48	62	e130	e18	25	23	5.6
7	29	70	42	e15	e37	e50	62	e130	e18	22	21	6.2
8	21	66	38	e16	e36	e44	59	e110	e16	20	19	6.3
9	17	57	37	e16	e39	e39	56	e96	e160	20	21	6.4
10	14	51	33	e15	e34	e39	52	e90	e130	19	19	6.1
11	13	72	e32	e14	e31	e37	50	e94	e110	17	17	5.7
12	12	512	e30	e13	e28	e36	54	e170	e90	16	16	5.4
13	11	225	e28	e13	e26	e35	110	e250	e80	163	15	5.4
14	19	158	e27	e12	e23	47	260	e190	e70	182	14	5.2
15	94	165	e25	e12	e21	72	e185	e150	e60	185	13	5.0
16	55	123	e23	e11	e18	69	e180	e130	e50	189	13	5.0
17	40	102	e21	56	e17	62	e370	e110	e40	137	14	6.0
18	32	90	e20	107	e16	64	e350	e100	33	102	12	14
19	29	84	e19	2080	e15	66	e230	e92	35	96	11	10
20	26	76	e20	408	53	105	e180	e82	33	86	10	7.5
21	519	72	e20	231	156	93	e150	e73	29	66	9.6	6.4
22	349	66	e19	160	147	82	e150	e68	25	54	8.9	7.4
23	168	59	e18	120	144	72	e130	e62	23	48	8.6	16
24	113	51	e18	212	160	66	e140	e52	21	43	13	12
25	88	46	e17	207	139	68	e160	e44	20	42	10	12
26	73	44	e16	152	113	95	e130	e39	18	84	8.7	10
27	62	44	e16	548	101	87	e110	e35	17	58	8.1	8.9
28	348	62	e15	332	e96	81	e92	e33	18	48	8.3	10
29	191	63	e13	201	e84	79	e88	e30	16	43	7.7	29
30	127	59	e14	152	---	74	e110	e28	19	40	6.9	20
31	104	---	e15	114	---	70	---	e26	---	37	6.5	---
TOTAL	2623.6	2951	899	5298	1864	1974	3885	3354	1250	1961	491.3	261.3
MEAN	84.6	98.4	29.0	171	64.3	63.7	129	108	41.7	63.3	15.8	8.71
MAX	519	512	60	2080	160	105	370	280	160	189	40	29
MIN	3.1	44	13	11	15	35	50	26	16	14	6.5	5.0
CFSM	3.36	3.90	1.15	6.78	2.55	2.53	5.14	4.29	1.65	2.51	.63	.35
IN.	3.87	4.36	1.33	7.82	2.75	2.91	5.73	4.95	1.85	2.89	.73	.39

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

	MEAN	33.9	63.6	66.6	53.8	55.8	93.9	128	72.1	34.7	22.5	15.3	20.3
MAX	128	158	210	171	206	216	294	171	84.4	136	87.9	116	
(WY)	1978	1960	1974	1996	1981	1948	1940	1940	1972	1945	1955	1938	
MIN	1.80	1.68	20.0	6.64	12.4	27.3	34.6	23.5	7.49	3.29	2.47	1.77	
(WY)	1965	1965	1944	1981	1987	1965	1946	1995	1962	1993	1993	1964	

e Estimated

DELAWARE RIVER BASIN

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01414500 MILL BROOK NEAR DUNRAVEN, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1937 - 1996
ANNUAL TOTAL	16334.8	26812.2	
ANNUAL MEAN	44.8	73.3	54.8
HIGHEST ANNUAL MEAN			83.3 1960
LOWEST ANNUAL MEAN			28.1 1965
HIGHEST DAILY MEAN	519 Oct 21	2080 Jan 19	2080 Jan 19 1996
LOWEST DAILY MEAN	1.9 Sep 7	3.1 Oct 3	1.2 Sep 25 1939
ANNUAL SEVEN-DAY MINIMUM	2.2 Aug 24	5.4 Sep 11	1.4 Nov 12 1964
ANNUAL RUNOFF (CFSM)	1.78	2.91	2.18
ANNUAL RUNOFF (INCHES)	24.11	39.58	29.57
10 PERCENT EXCEEDS	104	160	120
50 PERCENT EXCEEDS	25	42	32
90 PERCENT EXCEEDS	3.4	10	5.8

DELAWARE RIVER BASIN

01415000 TREMPER KILL NEAR ANDES, NY

LOCATION.--Lat 42°07'12", long 74°49'08", Delaware County, Hydrologic Unit 02040102, on right bank 500 ft upstream from bridge on County Highway 1, about 1,700 ft upstream from Pepacton Reservoir, and 5 mi south of Andes.

DRAINAGE AREA.--33.2 mi².

PERIOD OF RECORD.--February 1937 to current year. Published as "near Shavertown" 1937-67.

REVISED RECORDS.--WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Concrete control since Nov. 1937. Datum of gage is 1,285.87 ft above sea level. Prior to Aug. 5, 1937, nonrecording gage at site 500 ft downstream at different datum. Aug. 5 to Sept. 28, 1937, nonrecording gage at site 0.25 mi downstream at different datum.

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

AVERAGE DISCHARGE.--59 years, 58.6 ft³/s, 23.97 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,000 ft³/s, Jan. 19, 1996, gage height, 7.69 ft, from floodmark in gage well, from rating curve extended above 2,900 ft³/s on basis of runoff comparison of peak flow from contracted-opening measurement at site 0.7 mi upstream; maximum gage height, 7.92 ft, Jan. 26, 1976 (ice jam); minimum discharge, 0.5 ft³/s, Sept. 17, 21, 22, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 19	1645	a*5,000	b*7.69	June 8	0144	1,240	5.07
Jan. 27	1645	926	4.76				

a From rating curve extended as explained above.

b From floodmark in gage well.

Minimum discharge, 2.1 ft³/s, Oct. 3, 4, gage height, 2.25 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	76	70	e19	e80	e54	55	284	15	22	68	9.5
2	2.4	83	68	e19	e68	e45	64	213	13	17	61	8.8
3	2.2	90	60	e17	e60	e42	56	165	13	20	45	8.2
4	9.8	76	70	e16	e54	e38	53	147	15	55	41	8.2
5	16	66	59	e14	e50	e48	51	122	15	54	35	8.6
6	53	59	56	e16	e48	67	46	143	13	33	30	e8.2
7	23	56	50	e19	e45	52	46	121	13	28	26	e8.2
8	15	55	44	e22	e41	e44	49	108	534	25	23	e8.6
9	11	48	e40	e22	e44	e40	45	105	246	22	61	e8.6
10	9.2	42	e36	e21	e39	e37	44	117	254	19	43	e8.2
11	8.1	42	e30	e14	e35	e36	39	264	190	17	30	7.3
12	7.3	280	e26	e16	e32	e34	38	368	147	16	26	6.8
13	6.7	183	e26	e15	e28	e40	83	265	122	182	24	7.8
14	9.9	157	e25	e14	e24	e52	236	194	92	154	21	13
15	49	176	e27	e13	e22	86	192	149	69	173	19	8.8
16	27	135	e27	e12	e20	82	339	123	52	152	18	7.7
17	21	111	e26	38	e18	70	286	102	42	118	18	11
18	18	95	e24	94	e16	81	211	87	37	85	16	27
19	15	91	e23	1810	e14	84	162	70	45	111	15	15
20	14	84	e22	847	e40	132	133	56	44	109	14	11
21	251	80	e22	318	204	113	115	51	35	72	13	9.3
22	242	75	e21	207	137	101	97	45	29	57	12	15
23	142	66	e21	151	140	86	107	35	25	51	11	44
24	101	58	e20	250	181	74	134	34	21	45	21	22
25	78	51	e20	194	157	68	113	28	21	39	14	25
26	62	49	e20	110	128	81	105	25	18	134	11	19
27	52	47	e19	473	108	71	102	23	16	90	11	17
28	176	69	e18	352	e105	67	83	21	20	65	31	17
29	123	73	e18	220	e80	67	159	19	16	56	14	44
30	102	66	e17	166	---	59	258	18	29	56	11	26
31	87	---	e18	e100	---	53	---	17	---	58	10	---
TOTAL	1736.1	2639	1023	5599	2018	2004	3501	3519	2201	2135	793	438.8
MEAN	56.0	88.0	33.0	181	69.6	64.6	117	114	73.4	68.9	25.6	14.6
MAX	251	280	70	1810	204	132	339	368	534	182	68	44
MIN	2.2	42	17	12	14	34	38	17	13	16	10	6.8
CFSM	1.69	2.65	.99	5.44	2.10	1.95	3.52	3.42	2.21	2.07	.77	.44
IN.	1.95	2.96	1.15	6.27	2.26	2.25	3.92	3.94	2.47	2.39	.89	.49

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

	MEAN	34.9	63.1	70.7	62.2	65.3	111	128	71.4	35.3	20.1	17.1	24.7
MAX	158	152	151	181	186	260	284	178	97.7	68.9	91.6	152	
(WY)	1978	1960	1973	1996	1981	1977	1956	1984	1972	1996	1955	1938	
MIN	1.26	1.43	19.5	8.45	11.9	37.9	36.7	17.9	6.32	2.18	1.71	.96	
(WY)	1965	1965	1965	1977	1980	1965	1946	1987	1965	1965	1964	1964	

e Estimated

DELAWARE RIVER BASIN

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01415000 TREMPER KILL NEAR ANDES, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1937 - 1996
ANNUAL TOTAL	15714.8	27606.9	
ANNUAL MEAN	43.1	75.4	58.5
HIGHEST ANNUAL MEAN			89.6 1960
LOWEST ANNUAL MEAN			26.6 1965
HIGHEST DAILY MEAN	280 Nov 12	1810 Jan 19	1830 Mar 22 1948
LOWEST DAILY MEAN	1.3 Aug 30	2.2 Oct 3	.60 Sep 17 1964
ANNUAL SEVEN-DAY MINIMUM	1.4 Aug 25	7.9 Sep 7	.66 Sep 17 1964
ANNUAL RUNOFF (CFSM)	1.30	2.27	1.76
ANNUAL RUNOFF (INCHES)	17.61	30.93	23.94
10 PERCENT EXCEEDS	106	165	135
50 PERCENT EXCEEDS	25	45	33
90 PERCENT EXCEEDS	3.1	13	5.4

LOCATION.--Lat 42°04'30", long 74°58'36", Delaware County, Hydrologic Unit 02040102, on left bank 0.5 mi downstream from Downsville Dam, at downstream end of outlet channel of Pepacton Reservoir, and 1.0 mi east of Downsville.

DRAINAGE AREA.--372 mi².

PERIOD OF RECORD.--July 1941 to current year.

REVISED RECORDS.--WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,094.92 ft above sea level (levels by Board of Water Supply, City of New York). Prior to Sept. 26, 1941, nonrecording gage, and Sept. 26, 1941, to June 27, 1955, water-stage recorder, at site 0.8 mi downstream at datum 7.03 ft lower.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Subsequent to September 1954, entire flow from drainage area controlled by Pepacton Reservoir (see Reservoirs in Delaware River Basin). Part of flow diverted for New York City municipal supply (see Reservoirs in Delaware River Basin). Remainder of flow (except for conservation releases and spill) impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master. Several measurements of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,900 ft³/s, Nov. 26, 1950, gage height, 14.52 ft, site and datum then in use, from rating curve extended above 12,000 ft³/s; minimum discharge, 0.3 ft³/s, Oct. 11, 1954; minimum gage height, 1.39 ft, Jan. 17, 1964; minimum daily discharge, 0.6 ft³/s, Oct. 10, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 9, 1903, reached a stage of about 16 ft (at former site and datum).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,640 ft³/s, Apr. 17, gage height, 6.38 ft; minimum, 8.1 ft³/s, Nov. 6, 7, 11, 27, 28; minimum gage height, 2.09 ft, Nov. 6, 7, 11; minimum daily discharge, 8.3 ft³/s, Nov. 27.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	285	16	42	41	44	50	44	3510	83	103	105	77
2	284	9.5	42	42	43	43	47	3070	92	104	101	67
3	285	9.7	42	41	43	43	43	2510	93	98	98	67
4	167	8.6	42	41	43	43	43	2090	92	92	98	67
5	22	8.6	42	41	43	43	44	1800	92	92	98	67
6	22	8.6	42	41	43	43	44	1700	92	92	114	67
7	22	8.5	41	41	43	43	44	1570	92	92	122	67
8	45	8.7	e43	41	43	43	44	1250	93	92	107	67
9	174	8.7	e43	41	42	43	44	1130	102	92	91	67
10	280	8.7	e42	41	42	43	44	1060	647	93	92	67
11	282	8.9	e42	41	42	46	44	1650	1440	93	92	66
12	281	10	e42	41	42	44	45	3110	1460	93	92	65
13	281	9.3	41	41	42	43	46	3110	1020	96	94	65
14	278	9.4	41	41	42	43	46	2500	832	95	92	65
15	127	9.8	41	41	42	43	262	1910	641	96	90	65
16	22	9.4	41	41	42	43	2600	1520	369	103	90	65
17	22	9.3	41	41	42	43	4440	1270	186	655	90	66
18	22	9.4	41	42	42	43	3520	1110	106	1180	90	65
19	22	9.4	41	670	42	43	2650	965	100	1210	90	65
20	22	9.3	41	130	42	44	1810	797	93	884	90	65
21	24	8.7	41	48	43	44	1500	666	92	614	91	65
22	23	8.7	41	46	42	44	1300	565	103	470	92	66
23	23	8.7	41	46	42	44	1290	457	101	418	90	65
24	23	8.7	41	47	42	43	1610	356	87	163	90	65
25	23	8.6	41	46	42	44	1580	202	90	100	90	65
26	23	8.4	41	45	42	44	1430	111	94	291	90	65
27	23	8.3	41	57	42	43	1360	75	95	595	90	65
28	24	27	41	46	41	43	1210	71	95	636	92	66
29	24	42	41	45	41	43	1300	69	107	512	95	65
30	24	42	41	44	---	43	2170	67	98	247	95	65
31	24	---	41	44	---	43	---	65	---	129	95	---
TOTAL	3203	360.9	1284	2054	1226	1350	30654	40336	8687	9630	2946	1984
MEAN	103	12.0	41.4	66.3	42.3	43.5	1022	1301	290	311	95.0	66.1
MAX	285	442	43	670	44	50	4440	3510	1460	1210	122	77
MIN	22	8.3	41	41	41	43	43	65	83	92	90	65

MEAN	173	123	52.3	87.8	87.8	123	524	380	180	171	177	195
MAX	714	492	787	1258	1208	621	1871	1379	763	739	739	668
(WY)	1962	1978	1978	1978	1976	1975	1993	1984	1972	1962	1956	1964
MIN	4.39	6.86	6.13	6.33	6.62	6.54	13.6	18.6	18.0	18.0	17.9	18.1
(WY)	1955	1966	1984	1964	1992	1981	1965	1966	1974	1974	1974	1974

ANNUAL TOTAL	42088.9		103714.9				
ANNUAL MEAN	115		283		190		
HIGHEST ANNUAL MEAN					507		1956
LOWEST ANNUAL MEAN					65.3		1992
HIGHEST DAILY MEAN	633	Sep 13	4440	Apr 17	9340		May 30 1984
LOWEST DAILY MEAN	8.3	Nov 27	8.3	Nov 27	.60		Oct 10 1954
ANNUAL SEVEN-DAY MINIMUM	8.6	Nov 21	8.6	Nov 21	1.5		Oct 6 1954
10 PERCENT EXCEEDS	353		1070		577		
50 PERCENT EXCEEDS	44		53		53		
90 PERCENT EXCEEDS	23		23		7.4		

e Estimated

01417500 EAST BRANCH DELAWARE RIVER AT HARVARD, NY

LOCATION.--Lat 42°01'29", long 75°07'13", Delaware County, Hydrologic Unit 02040102, on right bank 800 ft downstream from Baxter Brook, and 1,100 ft downstream from highway bridge at Harvard. Water-quality sampling site at discharge station.

DRAINAGE AREA.--458 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1934 to June 1967, November 1977 to current year.

REVISED RECORDS.--WDR NY-82-1: Drainage area. WDR NY-84-1: 1978-81(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,007.41 ft above sea level. Prior to Aug. 12, 1958, water-stage recorder 1,100 ft upstream at datum 0.65 ft higher, and from Aug. 12, 1958, to June 30, 1967, water-stage recorder at site 200 ft downstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Subsequent to September 1954, entire flow from 371 mi² of drainage area controlled by Pepacton Reservoir (see Reservoirs in Delaware River Basin). Part of flow diverted for New York City municipal supply. Remainder of flow (except for conservation releases and spill) impounded for release during periods of low flow in the lower Delaware River Basin, as directed by the Delaware River Master. Satellite gage-height and temperature telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,400 ft³/s, Sept. 22, 1938, gage height, 16.93 ft, site and datum then in use, from rating curve extended above 10,000 ft³/s, on basis of slope-area measurement at gage height 15.58 ft; minimum discharge, 7.2 ft³/s, Oct. 13, 1954, gage height, 1.63 ft, site and datum then in use; minimum daily discharge, 7.6 ft³/s, Oct. 13, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,200 ft³/s, Jan. 19, gage height, 12.63 ft; minimum, 67 ft³/s, Jan. 3, gage height, 2.26 ft (result of freezeup), but discharge may have been less during period of estimated record; minimum daily discharge, about 68 ft³/s, Jan. 15-16.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	285	247	244	e75	e260	335	227	4150	122	193	317	110
2	284	236	243	e75	e220	301	256	3770	138	184	303	89
3	281	272	221	e75	e200	267	250	2810	136	191	261	86
4	314	256	233	e72	e180	221	238	2230	140	275	242	87
5	112	228	217	e75	e160	223	229	1820	141	305	224	86
6	182	209	208	e75	e150	e200	215	1670	132	263	213	85
7	125	194	e160	e75	e140	e180	211	1600	127	238	216	91
8	89	193	e150	e75	e140	e150	223	1250	394	217	205	91
9	122	165	e140	e78	e140	e160	205	1110	309	201	192	88
10	293	142	e130	e80	e130	e160	206	1050	735	184	191	85
11	297	134	e130	e75	e130	e160	196	1650	1570	169	169	84
12	297	639	e120	e72	e120	e160	206	3630	1680	158	160	83
13	296	574	e130	e70	e110	173	415	3910	1280	519	154	84
14	328	504	e110	e70	e100	186	1030	2940	984	675	150	90
15	487	561	e110	e68	e95	262	864	2120	809	644	141	86
16	195	505	e110	e68	e92	278	2770	1590	606	653	146	83
17	147	429	e100	e70	e90	265	5170	1280	394	753	141	94
18	122	363	e98	e110	e88	266	4290	1090	263	1190	133	126
19	104	327	e95	5040	e92	273	3060	967	241	1400	127	106
20	91	293	e92	3660	114	379	2030	835	239	1140	124	94
21	1010	267	e90	1280	460	389	1530	742	209	812	121	89
22	1270	251	e90	733	501	367	1290	681	205	643	121	100
23	690	222	e90	519	573	321	1180	598	218	602	121	150
24	483	196	e88	510	686	283	1510	502	184	376	133	120
25	357	175	e85	584	658	260	1540	357	172	242	122	123
26	272	164	e82	444	548	286	1380	238	166	550	117	113
27	220	154	e82	1150	447	283	1290	175	156	755	114	106
28	406	166	e80	1500	e350	273	1150	153	191	784	126	107
29	388	243	e85	832	e330	269	1240	144	171	719	120	183
30	327	234	e80	606	---	253	2250	135	204	503	116	147
31	282	---	e78	457	---	231	---	125	---	335	115	---
TOTAL	10156	8543	3971	18673	7304	7814	36651	45322	12316	15873	5135	3066
MEAN	328	285	128	602	252	252	1222	1462	411	512	166	102
MAX	1270	639	244	5040	686	389	5170	4150	1680	1400	317	183
MIN	89	134	78	68	88	150	196	125	122	158	114	83

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

	MEAN	292	324	237	235	207	340	754	482	260	234	273	293
MAX	745	681	1095	1558	725	761	2477	1670	675	767	770	653	
(WY)	1962	1978	1978	1978	1981	1986	1993	1984	1984	1962	1956	1964	
MIN	13.7	106	74.5	68.6	70.7	111	180	79.0	47.7	37.5	43.6	76.5	
(WY)	1955	1961	1961	1963	1963	1981	1985	1955	1964	1966	1965	1965	

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR			FOR 1996 WATER YEAR			WATER YEARS 1955 - 1996		
ANNUAL TOTAL	87030			174824					
ANNUAL MEAN	238			478			322		
HIGHEST ANNUAL MEAN							688		
LOWEST ANNUAL MEAN							178		
HIGHEST DAILY MEAN	1270			Oct 22			5170		
LOWEST DAILY MEAN	65			Feb 13			68		
ANNUAL SEVEN-DAY MINIMUM	74			Feb 10			70		
10 PERCENT EXCEEDS	567						1240		
50 PERCENT EXCEEDS	159						217		
90 PERCENT EXCEEDS	98						88		

e Estimated

DELAWARE RIVER BASIN

01417500 EAST BRANCH DELAWARE RIVER AT HARVARD, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: June 1978 to current year.

INSTRUMENTATION.--Water-temperature satellite telemeter provides 15-minute-interval readings. From May 1985 to June 1994, water-temperature satellite telemeter provided one-hour-interval readings. Prior to June 1994, water-temperature digital recorder provided one-hour-interval punches.

REMARKS.--Water temperature is affected by release of water from upstream reservoir. Interruptions of record were due to malfunction of recording instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum (water years 1978, 1981-82, 1984-96), 28.0°C, June 30, 1981; minimum (water years 1979-87, 1989-96), 0.0°C on many days during winter periods, except 1989.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 22.0°C, July 18, 24, Sept. 3; minimum, 0.0°C on many days during winter period.

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

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

DELAWARE RIVER BASIN

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01417500 EAST BRANCH DELAWARE RIVER AT HARVARD, NY--Continued

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

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

DELAWARE RIVER BASIN

01420500 BEAVER KILL AT COOKS FALLS, NY

LOCATION.--Lat 41°56'47", long 74°58'48", Delaware County, Hydrologic Unit 02040102, on left bank 125 ft downstream from highway bridge in Cooks Falls, and 5.5 mi downstream from Willowemoc Creek. Water-quality sampling site at discharge station.
DRAINAGE AREA.--241 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1913 to current year.

REVISED RECORDS.--WSP 521: Drainage area. WSP 781: 1933(M). WSP 891: 1936-39(M). WSP 1202: 1950.

WSP 1232: 1950(M).

GAGE.--Water-stage recorder. Datum of gage is 1,151.70 ft above sea level. Prior to Oct. 1, 1933, nonrecording gage at site 125 ft upstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Telephone gage-height telemeter and satellite gage-height and temperature telemeter at station.

AVERAGE DISCHARGE.--82 years (water years 1915-96), 556 ft³/s, 31.33 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42,900 ft³/s, Jan. 19, 1996, gage height, 17.79 ft, from floodmark in gage well (outside gage height, 18.5 ft, from floodmark), from rating curve extended above 13,000 ft³/s on basis of slope-area measurement at gage height 15.52 ft; minimum discharge, 16 ft³/s, Nov. 22, 23, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 21	1945	14,700	11.75	Apr. 16	1330	8,720	9.67
Oct. 28	1015	5,670	8.08	May 1	0015	6,620	8.70
Nov. 12	0630	8,300	9.39	July 13	1645	5,480	8.09
Jan. 19	1930	a*42,900	b*17.79	July 16	0100	5,390	8.04
Jan. 27	2000	13,200	11.33				

a From rating curve extended as explained above.

b From floodmark in gage well; outside gage height, 18.5 ft, from floodmark.

Minimum discharge, 47 ft³/s, Oct. 4, gage height, 0.82 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	897	489	e170	e810	934	693	3970	250	402	522	121
2	51	1060	473	e170	e570	813	782	2100	232	298	432	112
3	49	1320	439	e170	e500	710	707	1500	220	316	370	104
4	69	1190	473	e170	e450	e550	648	1260	279	404	337	101
5	118	936	448	e160	e410	e560	610	1050	316	466	361	101
6	518	805	440	e160	e370	e660	572	1040	246	353	314	98
7	335	747	402	e150	e340	e570	576	964	212	298	280	126
8	218	819	e350	e150	e320	e510	591	810	824	289	253	184
9	163	673	e330	e140	e300	e460	527	743	884	342	250	158
10	136	577	e310	e140	e300	e450	508	826	1010	382	257	122
11	120	550	e280	e150	e280	e440	478	1610	999	286	222	106
12	109	4610	e270	e140	e260	e440	531	3230	691	248	203	98
13	102	2230	e270	e150	e240	446	1470	1950	652	2390	195	97
14	138	1650	e260	e150	e220	500	2870	1420	544	2160	185	111
15	846	2080	e260	e140	e220	739	1850	1140	453	2160	172	99
16	513	1700	e250	e150	e210	890	6140	986	391	3530	187	91
17	350	1300	e240	e160	e200	702	3740	911	365	1960	234	130
18	283	1090	e240	e190	e200	691	2180	844	435	1230	179	434
19	247	979	e230	e16700	e200	762	1580	800	425	1030	155	287
20	229	880	e220	e8500	e280	1410	1300	686	497	961	142	189
21	6680	806	e210	e2800	e1700	1170	1140	647	448	694	135	150
22	4630	746	e210	e1700	e1600	966	982	673	413	568	130	180
23	1970	658	e220	e1200	e1900	801	880	561	456	494	127	350
24	1290	587	e200	1920	2540	693	1090	484	352	453	162	260
25	1010	523	e200	2600	2110	660	960	427	327	460	164	249
26	788	497	e200	1480	1530	1000	838	387	289	2110	130	214
27	654	474	e190	5420	1230	933	812	368	253	1070	120	186
28	3460	491	e190	4810	1280	779	692	340	308	698	277	178
29	2150	557	e200	2210	1230	735	1380	318	254	547	223	454
30	1390	487	e190	1540	---	690	3180	297	378	499	158	352
31	1080	---	e180	1160	---	662	---	272	---	496	131	---
TOTAL	29748	31919	8864	54850	21800	22326	40307	32614	13403	27594	7007	5442
MEAN	960	1064	286	1769	752	720	1344	1052	447	890	226	181
MAX	6680	4610	489	16700	2540	1410	6140	3970	1010	3530	522	454
MIN	49	474	180	140	200	440	478	272	212	248	120	91
CFSM	3.98	4.41	1.19	7.34	3.12	2.99	5.57	4.37	1.85	3.69	.94	.75
IN.	4.59	4.93	1.37	8.47	3.36	3.45	6.22	5.03	2.07	4.26	1.08	.84

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

	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924
MEAN	383	603	621	517	494	965	1290	690	381	280	217	241
MAX	1535	1427	1940	1769	2026	2485	2581	1584	1271	1329	1037	946
(WY)	1978	1973	1974	1996	1981	1977	1940	1989	1928	1945	1938	1938
MIN	31.3	42.4	140	93.5	107	289	347	224	107	54.0	40.4	31.8
(WY)	1965	1965	1923	1981	1920	1932	1946	1941	1991	1962	1962	1964

e Estimated

DELAWARE RIVER BASIN

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01420500 BEAVER KILL AT COOKS FALLS, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1913 - 1996	
ANNUAL TOTAL	178866		295874			
ANNUAL MEAN	490		808		556	
HIGHEST ANNUAL MEAN					937	1928
LOWEST ANNUAL MEAN					277	1965
HIGHEST DAILY MEAN	6680	Oct 21	16700	Jan 19	16700	Jan 19 1996
LOWEST DAILY MEAN	46	Sep 8	49	Oct 3	23	Sep 14 1913
ANNUAL SEVEN-DAY MINIMUM	49	Sep 3	103	Sep 10	26	Sep 21 1964
ANNUAL RUNOFF (CFSM)	2.03		3.35		2.31	
ANNUAL RUNOFF (INCHES)	27.61		45.67		31.34	
10 PERCENT EXCEEDS	1110		1700		1230	
50 PERCENT EXCEEDS	270		453		315	
90 PERCENT EXCEEDS	69		148		84	

DELAWARE RIVER BASIN

01420500 BEAVER KILL AT COOKS FALLS, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1987 to current year.

INSTRUMENTATION.--Water-temperature satellite and telephone telemeter since June 1986, provides 15-minute-interval readings.

REMARKS.--Interruptions of record were due to malfunction of recording instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum (water years 1991, 1993-96), 31.0°C, July 9, 1993; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 24.0°C, Aug. 22; minimum, 0.0°C on many days during winter period.

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

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

DELAWARE RIVER BASIN

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01420500 BEAVER KILL AT COOKS FALLS, NY--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	.0	---	1.0	.0	.5	6.0	4.5	5.0	10.0	6.5	8.5
2	.0	.0	.0	1.5	.0	.5	6.5	3.5	5.0	11.0	7.5	9.0
3	.0	.0	.0	1.0	.0	.5	5.0	2.5	4.0	9.5	7.0	8.0
4	.0	.0	.0	.5	.0	.0	5.0	3.0	4.0	9.0	8.0	8.5
5	.0	.0	.0	.5	.0	.0	5.5	3.5	4.5	12.5	8.0	10.0
6	.0	.0	.0	1.5	.5	1.0	7.0	2.5	4.5	11.5	8.0	9.5
7	---	.0	---	1.0	.0	.5	5.5	3.5	4.5	10.0	6.5	8.0
8	---	---	---	.0	.0	.0	4.5	2.0	3.0	12.5	8.0	10.0
9	---	.1	---	.0	.0	.0	4.5	1.5	3.0	11.5	9.5	10.0
10	.8	.1	---	.0	.0	.0	4.5	2.5	3.5	12.5	9.0	10.5
11	1.0	.5	---	1.0	.0	.0	7.5	2.5	5.0	12.5	11.5	12.0
12	.5	.0	.0	1.5	.0	.5	7.0	5.5	6.0	11.5	8.0	9.0
13	.0	.0	.0	3.5	.0	1.5	6.5	4.5	5.0	9.0	6.5	7.5
14	.0	.0	.0	5.0	1.5	3.0	4.5	3.5	4.0	10.0	5.5	8.0
15	.0	.0	.0	4.0	2.0	2.5	7.0	2.5	4.5	11.5	6.5	9.0
16	.0	.0	.0	3.5	.5	2.0	6.0	3.5	4.5	10.5	8.5	9.0
17	.0	.0	.0	4.0	.0	2.0	4.0	3.0	3.5	14.0	8.5	10.5
18	.0	.0	.0	5.5	2.5	3.5	7.5	3.0	5.0	13.0	10.5	11.5
19	.0	.0	.0	4.5	2.0	3.5	8.0	4.5	6.5	17.0	11.0	13.5
20	.0	.0	.0	4.5	2.5	3.0	8.5	6.5	7.5	19.0	14.0	16.5
21	.0	.0	.0	3.5	2.0	3.0	11.0	7.5	9.5	18.0	15.0	16.0
22	1.5	.0	.5	3.0	1.5	2.0	11.5	7.0	9.5	16.0	13.0	14.5
23	2.5	1.0	1.5	2.0	.5	1.5	13.5	10.0	11.5	16.5	12.5	14.5
24	3.0	1.5	2.5	4.5	.5	2.5	12.0	8.0	9.5	17.0	13.5	15.0
25	3.5	1.0	2.5	---	---	---	9.5	7.0	8.5	16.0	11.0	13.5
26	3.5	1.5	2.5	6.5	4.0	5.5	10.5	8.5	9.5	---	---	---
27	3.0	1.0	2.5	4.0	1.0	2.5	10.5	8.0	9.0	---	---	---
28	4.5	2.5	3.5	2.5	.5	2.0	10.5	6.0	8.5	---	---	---
29	2.5	.0	1.0	4.0	1.5	3.0	9.5	7.5	8.0	---	---	---
30	---	---	---	7.0	2.5	---	9.0	7.5	8.0	---	---	---
31	---	---	---	7.5	3.2	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	13.5	1.5	6.0	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	---	---	---	21.0	15.0	17.5	19.5	15.5	17.0	21.5	17.0	19.5
2	---	---	---	22.0	17.0	19.5	20.0	16.5	18.5	23.0	18.0	20.5
3	---	---	---	20.5	17.0	18.5	19.0	17.0	18.0	23.5	19.0	21.0
4	16.5	14.0	15.0	17.0	15.0	16.0	21.5	16.5	19.0	21.5	19.0	20.0
5	18.5	14.0	16.0	19.5	13.5	16.5	22.0	18.0	20.0	22.0	18.5	20.0
6	19.0	14.5	17.0	21.0	15.5	18.0	23.0	18.5	20.5	23.0	19.5	21.0
7	20.5	16.0	18.5	22.5	17.5	20.0	23.0	19.0	21.0	21.0	20.0	20.5
8	20.0	16.5	18.0	22.0	18.0	20.0	23.0	19.5	21.5	21.5	19.0	20.0
9	19.5	16.0	18.0	22.0	19.0	20.5	21.5	18.5	20.0	22.0	19.0	20.5
10	18.5	17.0	17.5	20.0	17.0	18.0	20.0	17.0	18.5	22.0	19.5	20.5
11	19.5	16.0	17.5	20.5	15.0	18.0	21.0	16.0	18.5	21.0	18.5	20.0
12	19.5	16.5	18.0	20.0	16.0	18.0	19.5	17.5	18.0	20.5	18.5	19.5
13	18.5	16.5	17.5	19.0	16.0	17.0	20.0	16.5	18.0	19.0	17.0	18.0
14	20.0	16.5	18.0	18.5	15.0	16.5	21.5	17.0	19.0	18.5	16.0	17.0
15	21.0	17.0	19.0	18.0	16.5	17.0	22.0	18.0	20.0	17.0	15.0	16.0
16	20.5	16.5	18.5	18.0	15.5	17.0	20.5	18.5	19.5	15.5	14.5	15.0
17	19.5	17.5	18.5	19.0	15.5	17.0	21.5	17.5	19.5	15.5	14.5	15.0
18	18.5	17.0	18.0	19.5	16.0	17.5	22.5	18.0	20.5	14.5	13.5	14.0
19	18.0	15.5	16.5	18.5	17.0	17.5	23.0	18.0	20.5	16.0	12.5	14.0
20	16.0	14.5	15.0	18.0	15.5	16.5	23.0	19.0	21.0	16.5	13.0	14.5
21	19.5	15.0	17.0	19.0	14.5	16.5	22.0	19.5	20.5	17.5	13.5	15.5
22	18.0	15.5	16.5	19.0	15.0	17.0	24.0	19.0	21.0	15.5	13.5	14.0
23	19.5	14.5	17.0	17.5	15.5	16.5	23.5	19.5	21.0	13.5	12.5	13.0
24	18.0	15.5	17.0	20.0	15.0	17.5	22.5	19.5	21.0	12.5	11.0	12.0
25	18.5	16.5	17.0	19.0	17.0	18.0	23.0	18.0	20.5	13.5	11.5	12.0
26	20.0	14.5	17.0	19.0	16.5	17.5	23.5	19.0	21.0	13.0	11.0	12.0
27	20.0	15.0	17.5	17.5	16.0	17.0	23.0	19.0	21.0	13.5	12.0	12.5
28	21.5	17.0	19.0	19.5	15.0	17.0	22.0	18.0	20.0	15.0	13.0	14.0
29	19.5	17.0	17.5	18.0	15.5	16.0	22.0	18.5	20.0	14.5	13.0	14.0
30	17.0	15.5	16.0	16.0	15.0	15.5	22.0	17.5	19.5	14.5	11.5	13.0
31	---	---	---	16.0	15.0	15.5	21.5	17.0	19.0	---	---	---
MONTH	---	---	---	22.5	13.5	17.5	24.0	15.5	20.0	23.5	11.0	16.5

DELAWARE RIVER BASIN

01421000 EAST BRANCH DELAWARE RIVER AT FISHS EDDY, NY

LOCATION.--Lat 41°58'23", long 75°10'28", Delaware County, Hydrologic Unit 02040102, on left bank 3,000 ft upstream from bridge on County Highway 28 at Fishs Eddy, 0.6 mi upstream from Fish Creek, 4.2 mi downstream from Beaver Kill, and 11 mi upstream from the confluence of East and West Branches near Hancock. Water-quality sampling site at discharge station.

DRAINAGE AREA.--784 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 955.96 ft above sea level. Prior to Sept. 27, 1928, nonrecording gage and Sept. 26, 1928 to Nov. 1, 1967, water-stage recorder at site 3,000 ft downstream at datum 5.0 ft lower.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Subsequent to September 1954, entire flow from 371 mi² of drainage area controlled by Pepacton Reservoir (see Reservoirs in Delaware River Basin). Part of flow diverted for New York City municipal supply. Remainder of flow (except for conservation releases and spill) impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master. Telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 53,300 ft³/s, Aug. 24, 1933, gage height, 20.60 ft, at former site and datum, from rating curve extended above 22,000 ft³/s; maximum discharge since construction of Pepacton Reservoir in 1954, 53,000 ft³/s, Jan. 19, 1996, gage height, 16.88 ft, from floodmark in gage well, outside gage height was about 17.7 ft, from floodmarks; minimum discharge, 52 ft³/s, July 23, 1964, gage height, 1.16 ft, at former site and datum; minimum daily discharge, 68 ft³/s, Aug. 28, 1949.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 9, 1903, reached a stage of 23.6 ft, at former site and datum, from description obtained in April 1939, from local residents who had experienced the flood (discharge, about 70,000 ft³/s, from rating curve extended above 22,000 ft³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 53,000 ft³/s, Jan. 19, gage height, 16.88 ft, from floodmark in gage well, outside gage height was about 17.7 ft, from floodmarks; minimum discharge not determined; minimum daily discharge, about 170 ft³/s, Sept. 16.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	364	1270	863	e310	e1500	1720	1170	9460	361	694	1020	e220
2	360	1310	852	e300	e1000	1540	1310	7120	353	539	870	e200
3	356	1730	782	e300	e850	e1300	1240	5660	334	476	713	e180
4	437	1640	822	e300	e750	e980	1160	4820	370	690	636	e180
5	314	1320	795	e290	e680	e1000	1090	4140	455	928	615	e180
6	718	1160	766	e290	e650	e1100	1020	3890	368	749	554	e180
7	598	1070	715	e280	e600	e900	1000	3780	320	608	509	e200
8	395	1140	627	e280	e580	e750	1070	3090	1270	546	462	e250
9	333	978	e560	e270	e560	e700	953	2750	1350	532	447	e240
10	465	851	e540	e270	e530	e720	922	2720	2040	619	458	e220
11	472	789	e500	e270	e500	e720	864	4170	3560	493	387	e190
12	455	5640	e480	e270	e480	753	923	8110	3270	412	347	e180
13	443	3560	e480	e270	e450	783	2340	7140	2660	1750	329	e180
14	496	2620	e460	e270	e410	856	5360	5690	2060	5200	314	e190
15	1440	3070	e450	e270	e400	1210	4040	4590	1660	2690	e290	e180
16	913	2720	e440	e280	e380	1530	9200	3780	1230	5780	e300	e170
17	642	2040	e430	e310	e370	1280	10400	3240	881	4000	350	e200
18	519	1680	e420	e400	e360	1260	7680	2800	795	3380	302	e350
19	450	1490	e410	e18000	e400	1340	5920	2530	748	3190	e280	411
20	408	1340	e390	16400	e800	2240	4630	2110	880	3110	e270	e280
21	7350	1220	e380	5450	e2000	2130	3860	1800	747	2110	e260	e240
22	8270	1150	e380	3580	e3000	1830	3340	1750	664	1590	e250	e260
23	3400	1030	e390	2570	3600	1530	2990	1440	771	1360	e250	489
24	2130	924	e370	2930	4240	1320	3640	1180	583	1050	e270	392
25	1570	823	e360	4310	3900	1220	3580	926	521	760	e280	352
26	1220	777	e350	2700	3020	1600	3220	716	465	2990	e260	317
27	1020	735	e340	5130	2400	1600	3070	600	411	2360	e230	e270
28	3820	741	e350	8780	2350	1400	2690	528	505	1880	e340	e270
29	3020	912	e360	4410	2240	1320	3130	478	440	1570	320	584
30	1950	849	e330	3180	---	1250	6450	436	505	1220	e270	571
31	1500	---	e320	2350	---	1160	---	396	---	969	e240	---
TOTAL	45828	46579	15712	85020	39000	39042	98262	101840	30577	54245	12423	8126
MEAN	1478	1553	507	2743	1345	1259	3275	3285	1019	1750	401	271
MAX	8270	5640	863	18000	4240	2240	10400	9460	3560	5780	1020	584
MIN	314	735	320	270	360	700	864	396	320	412	230	170

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

	MEAN	804	1107	1103	926	994	1623	2588	1474	785	514	483	541
MAX	2531	2316	3043	2931	3297	4239	5957	3465	2426	1750	1707	1838	
(WY)	1956	1960	1974	1978	1976	1977	1993	1984	1973	1996	1955	1960	
MIN	163	458	404	277	213	578	808	432	229	157	136	139	
(WY)	1974	1961	1961	1981	1980	1970	1985	1987	1977	1966	1965	1972	

e Estimated

DELAWARE RIVER BASIN

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01421000 EAST BRANCH DELAWARE RIVER AT FISHS EDDY, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1955 - 1996	
ANNUAL TOTAL	309390		576654		1077	
ANNUAL MEAN	848		1576		1586	1973
HIGHEST ANNUAL MEAN					604	1965
LOWEST ANNUAL MEAN					21500	Mar 14 1977
HIGHEST DAILY MEAN	8270	Oct 22	18000	Jan 19	72	Jul 24 1964
LOWEST DAILY MEAN	238	Jul 14	170	Sep 16	84	Oct 9 1954
ANNUAL SEVEN-DAY MINIMUM	246	Jul 10	184	Sep 11	2360	
10 PERCENT EXCEEDS	1700		3790		640	
50 PERCENT EXCEEDS	550		786		236	
90 PERCENT EXCEEDS	310		270			

DELAWARE RIVER BASIN

01421000 EAST BRANCH DELAWARE RIVER AT FISHS EDDY, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1958-59, 1968 to current year.

CHEMICAL DATA: 1958-59 (d), 1970 (b), 1971-74 (d), 1975 (c).

MINOR ELEMENTS DATA: 1971-74 (a).

ORGANIC DATA: OC--1974 (a), 1975 (c).

NUTRIENT DATA: 1971-75 (d).

BIOLOGICAL DATA:

Bacteria--1971 (c), 1973-75 (c).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: November 1967 to current year.

INSTRUMENTATION.--Water-temperature recorder provides 15-minute-interval readings. Prior to June 1993, water-temperature digital recorder since October 1975, provided one-hour-interval punches. Prior to October 1975, water-temperature recorder provided continuous recordings.

REMARKS.--Water temperature is affected by release of water from upstream reservoir. Interruption of record was due to malfunction of recording instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum (water years 1968-75, 1978, 1980-82, 1984, 1986-95), 31.5°C, Aug. 2, 1975; minimum (water years 1968-76, 1978-79, 1981-96), 0.0°C on many days during winter periods, except 1978.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 23.0°C, July 2, but may have been higher during period of instrument malfunction; minimum, 0.0°C on many days during winter period.

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

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

DELAWARE RIVER BASIN

01423000 WEST BRANCH DELAWARE RIVER AT WALTON, NY

LOCATION.--Lat 42°09'58", long 75°08'25", Delaware County, Hydrologic Unit 02040101, on left bank at west end of fairgrounds at Walton, and 100 ft downstream from West Brook.

DRAINAGE AREA.--332 mi².

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

REVISED RECORDS.--WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,190.30 ft above sea level.

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

AVERAGE DISCHARGE.--46 years, 578 ft³/s, 23.64 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft³/s, Jan. 19, 1996, gage height, 16.36 ft, from rating curve extended above 8,800 ft³/s on basis of runoff comparison of peak flow from contracted-opening measurement at site 4.7 mi downstream; minimum discharge, 12 ft³/s, Sept. 15, Nov. 22, 1964; minimum gage height, 1.86 ft, Nov. 22, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 21	1915	5,010	8.76	Jan. 27	2145	6,230	9.52
Jan. 19	2145	a*25,000	*16.36	May 12	1100	6,390	9.61

a From rating curve extended as explained above.

Minimum discharge, 22 ft³/s, Oct. 3, 4, gage height, 2.36 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	866	832	e200	e950	e760	659	2820	200	260	853	89
2	23	856	857	e195	e900	e740	733	2010	178	198	700	84
3	22	908	733	e160	e720	e700	685	1650	160	223	517	79
4	40	790	852	e165	e550	e510	638	1610	168	631	443	75
5	78	657	757	e170	e440	e550	594	1630	181	992	385	76
6	327	577	675	e175	e480	752	534	1660	151	612	339	74
7	251	541	607	e190	e445	e630	528	1630	180	481	297	75
8	137	566	e515	e195	463	e445	588	1340	2440	401	264	80
9	99	507	e475	e195	629	e390	540	1230	2290	347	589	77
10	78	440	e425	e190	539	e380	586	1210	1840	307	771	74
11	66	432	e360	e190	e480	e370	517	2580	1640	260	440	69
12	58	2510	e295	e185	e430	e360	498	5730	1280	223	354	65
13	53	1940	e350	e180	e270	e405	853	3720	1200	1420	320	66
14	118	1660	e305	e175	e280	502	2440	2500	950	2800	286	91
15	1230	1770	408	e165	e270	839	1920	1910	772	1730	254	80
16	555	1650	405	e145	e250	870	3050	1530	617	1960	262	69
17	338	1300	353	279	e220	710	2980	1320	514	1290	240	89
18	255	1130	311	e640	e210	765	2220	1180	446	1010	212	e340
19	209	1080	e260	14600	e190	852	1740	1180	473	999	187	283
20	177	1010	e215	14200	e325	1260	1440	916	571	1200	167	160
21	2160	963	e230	4450	e1680	1220	1250	788	451	791	153	124
22	3330	927	e245	2570	1160	1070	1080	751	396	632	143	146
23	1680	810	266	1880	1130	919	1070	629	346	542	133	508
24	1180	712	248	2460	1470	815	1500	541	287	489	196	318
25	917	615	234	2790	1370	780	1170	454	274	408	176	279
26	736	581	e220	1560	1130	1060	1040	390	243	712	137	235
27	603	550	e220	3820	977	928	1050	347	205	641	120	198
28	1560	831	e215	3930	1150	838	878	311	269	458	135	202
29	1450	981	e210	2200	e985	836	1050	281	216	377	129	724
30	1150	807	e200	1760	---	766	2150	251	245	362	106	477
31	978	---	e215	e1380	---	682	---	225	---	410	95	---
TOTAL	19882	28967	12493	61394	20093	22704	35981	44324	19183	23166	9403	5306
MEAN	641	966	403	1980	693	732	1199	1430	639	747	303	177
MAX	3330	2510	857	14600	1680	1260	3050	5730	2440	2800	853	724
MIN	22	432	200	145	190	360	498	225	151	198	95	65
CFSM	1.93	2.91	1.21	5.97	2.09	2.21	3.61	4.31	1.93	2.25	.91	.53
IN.	2.23	3.25	1.40	6.88	2.25	2.54	4.03	4.97	2.15	2.60	1.05	.59

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1996, BY WATER YEAR (WY)

	MEAN	345	627	720	619	673	1108	1292	679	345	193	152	201
MAX	2013	1456	2002	1980	2052	2935	2953	1564	1111	747	942	1332	
(WY)	1978	1960	1974	1996	1981	1977	1958	1984	1968	1996	1955	1977	
MIN	15.4	17.3	163	94.6	147	371	452	190	70.6	38.9	24.2	15.8	
(WY)	1965	1965	1965	1961	1980	1965	1986	1987	1964	1965	1964	1964	

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1951 - 1996
ANNUAL TOTAL	164785	302896	
ANNUAL MEAN	451	828	578
HIGHEST ANNUAL MEAN			833
LOWEST ANNUAL MEAN			263
HIGHEST DAILY MEAN	3330	Oct 22	14600
LOWEST DAILY MEAN	16	Aug 30	22
ANNUAL SEVEN-DAY MINIMUM	17	Aug 25	72
ANNUAL RUNOFF (CFSM)	1.36		2.49
ANNUAL RUNOFF (INCHES)	18.46		33.94
10 PERCENT EXCEEDS	1140		1690
50 PERCENT EXCEEDS	270		517
90 PERCENT EXCEEDS	28		137

e Estimated

DELAWARE RIVER BASIN

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01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, NY

LOCATION.--Lat 42°04'29", long 75°23'47", Delaware County, Hydrologic Unit 02040101, on right bank at Stilesville, 0.5 mi upstream from Cold Spring Creek, 1.4 mi downstream from Cannonsville Dam, and 2.0 mi northeast of Deposit. Water-quality sampling site at discharge station.

DRAINAGE AREA.--456 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1952 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 992.23 ft above sea level (levels by Board of Water Supply, City of New York). Prior to Oct. 1, 1964, at site 600 ft downstream at datum 1.37 ft higher.

REMARKS.--No estimated daily discharges. Records good except those below 100 ft³/s, which are fair. Subsequent to October 1963, entire flow from 454 mi² of drainage area controlled by Cannonsville Reservoir (see Reservoirs in Delaware River Basin). Part of flow diverted for New York City municipal supply (see Reservoirs in Delaware River Basin). Remainder of flow (except for conservation releases and spill) impounded for release during period of low flow in the lower Delaware River basin, as directed by the Delaware River Master.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,800 ft³/s, Mar. 16, 1986, gage height, 13.07 ft; minimum daily, 7.2 ft³/s, Feb. 8, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,570 ft³/s, May 13, gage height, 10.36 ft; minimum daily, 24 ft³/s, Oct. 31 to Nov. 6, Nov. 8-10.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	893	24	38	38	2140	1020	594	2810	203	336	496	711
2	1010	24	38	38	1720	894	587	3100	217	336	521	835
3	1000	24	38	38	1440	790	566	2830	75	336	473	924
4	579	24	38	38	1180	623	536	2450	63	337	485	1080
5	48	24	38	38	969	521	492	2280	55	335	502	819
6	32	24	38	38	825	535	443	2120	53	336	558	614
7	28	25	37	38	734	559	410	2130	53	336	568	481
8	27	24	38	38	703	498	423	1930	185	336	470	340
9	90	24	38	38	741	384	393	1730	629	337	397	340
10	252	24	37	38	769	311	329	1610	1250	336	371	340
11	415	25	37	38	744	277	239	2010	1590	336	417	340
12	498	37	37	39	723	280	195	4320	1680	336	427	237
13	667	28	37	38	621	289	271	5430	1680	353	422	930
14	553	28	37	39	531	313	1120	4610	1560	1040	411	844
15	178	32	37	39	490	410	1960	3680	1330	1650	547	483
16	38	29	37	39	450	576	2950	2830	997	2080	577	495
17	27	28	37	39	410	648	3960	2230	736	2070	352	277
18	27	27	37	40	383	676	3790	1860	568	1800	342	90
19	40	27	37	74	349	741	3200	1740	466	1590	340	57
20	71	27	37	85	341	955	2540	1540	423	1630	340	47
21	48	27	37	55	623	1220	2100	1230	387	1450	540	47
22	40	27	37	49	974	1280	1860	970	364	1220	659	50
23	31	27	37	47	1060	1210	1680	761	348	901	692	49
24	30	26	37	50	1230	1100	1760	582	336	669	619	48
25	30	26	37	788	1500	965	1770	439	335	504	595	48
26	29	27	37	1550	1620	914	1460	335	334	495	547	48
27	29	27	37	2490	1320	918	1250	265	335	592	654	52
28	30	31	37	4720	1140	852	1070	204	336	615	696	50
29	29	38	38	4230	1160	802	1020	154	335	592	371	49
30	28	37	38	3400	---	748	1670	118	392	539	330	147
31	24	---	37	2750	---	663	---	89	---	441	524	---
TOTAL	6821	822	1157	20979	26890	21972	40638	58387	17315	24264	15243	10872
MEAN	220	27.4	37.3	677	927	709	1355	1883	577	783	492	362
MAX	1010	38	38	4720	2140	1280	3960	5430	1680	2080	696	1080
MIN	24	24	37	38	341	277	195	89	53	335	330	47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1996, BY WATER YEAR (WY)

	MEAN	520	229	273	328	439	770	1211	708	513	622	597	546
MAX	1593	1155	1757	1910	2309	2879	4389	1883	1593	1646	1675	1606	
(WY)	1970	1978	1978	1978	1976	1986	1993	1996	1968	1971	1968	1972	
MIN	26.2	21.5	9.10	10.3	9.89	11.1	19.7	25.2	72.7	63.9	92.3	34.0	
(WY)	1964	1966	1966	1967	1967	1989	1985	1966	1965	1965	1985	1964	

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR			FOR 1996 WATER YEAR			WATER YEARS 1964 - 1996		
ANNUAL TOTAL	141402			245360					
ANNUAL MEAN	387			670			563		
HIGHEST ANNUAL MEAN							1038		
LOWEST ANNUAL MEAN							87.3		
HIGHEST DAILY MEAN	2520			Mar 10			5430		
LOWEST DAILY MEAN	24			Oct 31			24		
ANNUAL SEVEN-DAY MINIMUM	24			Oct 31			24		
10 PERCENT EXCEEDS	900						1410		
50 PERCENT EXCEEDS	291						314		
90 PERCENT EXCEEDS	30						20		

DELAWARE RIVER BASIN

01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963 to current year.

CHEMICAL DATA: 1959-60 (a) unpublished, 1969 (a), 1970 (a) unpublished, 1971, 1973 (b), 1974 (d), 1975 (b).

MINOR ELEMENTS DATA: 1971 (b).

NUTRIENT DATA: 1970 (a) unpublished, 1971, 1973 (b), 1974 (d), 1975 (b).

BIOLOGICAL DATA:

Bacteria--1973 (b), 1974 (d), 1975 (b).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1962 to current year.

INSTRUMENTATION.--Water-temperature recorder provides 15-minute-interval readings. Prior to March 1993, water-temperature digital recorder since October 1975, provided one-hour-interval punches. Prior to October 1975, water-temperature recorder provided continuous recordings.

REMARKS.--Interruptions of record were due to malfunction of recording instrument. Water temperature is affected by release of water from upstream reservoir.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum (water years 1963-78, 1980-82, 1984-86, 1988, 1990-92, 1994-95), 30.5°C July 2, 1963; minimum (water years 1963-95), 0.0°C on many days during winter periods, except 1969, 1973, 1986-87, 1990-91, 1994-95.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES; Maximum recorded, 22.0°C, July 17, but may have been higher during period of instrument malfunction; minimum recorded, 1.0°C, on several days during winter period, but may have been lower during period of instrument malfunction 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	18.9	17.2	17.8	14.0	9.5	11.5	5.0	3.0	4.0	4.5	3.0	3.5
2	18.5	17.5	18.0	13.5	12.0	12.5	5.5	3.5	4.5	3.5	2.5	3.5
3	19.0	17.5	18.0	13.5	10.5	12.5	5.0	3.0	4.0	2.5	1.5	2.0
4	19.0	17.5	18.0	10.5	6.0	8.0	6.0	4.0	5.0	2.5	1.0	1.5
5	19.0	17.0	17.5	10.0	5.0	6.5	5.0	3.0	4.0	2.0	1.0	1.5
6	21.0	16.5	18.5	10.5	5.0	7.0	5.5	3.5	4.5	2.0	1.0	1.5
7	18.0	16.0	16.5	8.0	5.5	6.5	5.0	3.0	4.0	1.5	1.0	1.5
8	16.5	14.5	15.5	8.5	5.0	7.0	4.0	2.5	3.0	2.0	1.0	1.5
9	18.5	13.5	15.5	6.5	4.0	5.0	3.5	2.5	3.0	2.5	1.0	2.0
10	19.0	16.5	17.0	7.5	4.5	6.0	4.0	2.0	3.0	2.5	1.5	2.0
11	18.5	17.0	17.5	12.0	6.5	9.0	3.0	1.5	2.0	---	---	---
12	18.5	16.5	17.5	10.0	4.5	6.5	3.5	1.5	2.5	---	---	---
13	18.5	17.0	17.5	5.0	4.0	4.5	4.0	2.0	2.5	---	---	---
14	17.5	16.5	17.0	6.0	3.5	5.0	2.5	1.5	2.0	---	---	---
15	17.0	15.0	16.0	5.5	3.5	4.5	4.0	2.5	3.0	---	---	---
16	15.0	11.5	13.0	6.0	4.0	5.0	4.0	3.0	3.5	---	---	---
17	16.5	10.5	13.0	7.5	4.0	5.5	3.5	3.0	3.0	---	---	---
18	16.5	10.5	13.5	5.5	4.5	5.0	4.0	2.5	3.0	---	---	---
19	16.5	12.0	14.0	6.5	4.5	5.5	3.0	1.5	2.5	---	---	---
20	15.0	13.5	14.5	6.0	5.0	5.5	2.5	1.5	1.5	---	---	---
21	15.5	12.5	14.0	8.0	5.0	6.0	2.0	1.5	2.0	---	---	---
22	14.5	11.0	12.5	6.0	4.5	5.5	3.0	1.5	2.0	---	---	---
23	16.0	10.5	13.0	5.0	3.5	4.5	3.5	2.5	3.0	---	---	---
24	16.0	10.5	13.5	6.5	3.0	4.5	3.5	2.0	2.5	---	---	---
25	14.5	11.5	12.5	6.0	3.0	4.0	3.5	2.0	3.0	---	---	---
26	15.0	10.5	12.5	6.5	4.0	5.0	3.5	1.5	2.5	---	---	---
27	13.0	11.0	12.0	6.5	5.0	5.5	2.5	1.5	2.0	---	---	---
28	15.0	12.5	13.5	7.5	5.0	6.0	3.5	2.0	2.5	---	---	---
29	12.5	8.5	10.5	5.0	3.5	4.0	3.5	2.0	2.5	---	---	---
30	11.5	8.5	9.5	5.0	2.5	4.0	3.0	1.0	2.0	---	---	---
31	9.5	8.5	9.0	---	---	---	4.5	2.0	3.0	---	---	---
MONTH	21.0	8.5	15.0	14.0	2.5	6.0	6.0	1.0	3.0	---	---	---

DELAWARE RIVER BASIN

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01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, NY--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	---	---	---	6.5	5.5	6.0
2	---	---	---	---	---	---	---	---	---	6.5	5.0	6.0
3	---	---	---	---	---	---	---	---	---	7.0	5.5	6.5
4	---	---	---	---	---	---	---	---	---	9.0	7.0	8.0
5	---	---	---	---	---	---	---	---	---	10.0	8.0	8.5
6	---	---	---	---	---	---	---	---	---	9.5	9.0	9.5
7	---	---	---	---	---	---	---	---	---	---	---	9.1
8	---	---	---	---	---	---	---	---	---	10.0	8.5	9.0
9	---	---	---	---	---	---	---	---	---	---	---	9.2
10	---	---	---	---	---	---	---	---	---	10.0	8.5	9.0
11	---	---	---	---	---	---	---	---	---	9.5	8.5	9.0
12	---	---	---	---	---	---	---	---	---	8.5	6.5	7.5
13	---	---	---	---	---	---	---	---	---	8.0	6.5	7.0
14	---	---	---	---	---	---	---	---	---	9.5	7.0	8.0
15	---	---	---	---	---	---	---	---	---	10.0	9.0	9.0
16	---	---	---	---	---	---	---	---	---	10.0	9.0	9.5
17	---	---	---	---	---	---	---	---	---	11.0	9.5	10.5
18	---	---	---	---	---	---	---	---	---	13.5	10.5	11.5
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	16.5	13.0	14.5
26	---	---	---	---	---	---	---	---	---	16.0	13.5	14.5
27	---	---	---	---	---	---	---	---	---	16.5	13.5	15.0
28	---	---	---	---	---	---	---	---	---	15.0	13.0	13.5
29	---	---	---	---	---	---	---	---	---	15.0	12.5	13.5
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	---	---	---	---	---	---	13.0	11.0	12.0	9.5	7.0	8.0
2	---	---	---	---	---	---	13.5	11.5	12.5	9.0	7.5	8.0
3	---	---	---	---	---	---	12.5	11.0	11.5	9.5	7.5	8.0
4	---	---	---	---	---	---	13.0	11.0	12.0	8.0	7.5	7.5
5	---	---	---	---	---	---	13.5	11.5	12.5	9.5	7.5	8.0
6	---	---	---	---	---	---	13.5	11.5	12.0	9.5	7.5	8.0
7	---	---	---	---	---	---	12.5	10.0	11.5	9.0	8.0	8.5
8	---	---	---	---	---	---	10.0	7.5	8.5	10.5	8.0	9.0
9	---	---	---	9.0	6.5	7.5	9.5	7.0	7.5	9.5	8.0	8.5
10	---	---	---	8.5	6.5	7.0	10.0	7.0	8.5	9.0	8.0	8.0
11	---	---	---	9.5	6.5	7.5	12.5	9.5	10.5	9.5	7.5	8.0
12	---	---	---	9.5	6.3	7.5	12.0	10.0	11.0	11.5	8.0	9.5
13	---	---	---	8.0	6.5	7.0	12.0	10.0	11.0	11.0	7.5	8.0
14	---	---	---	18.5	7.3	15.5	11.5	10.0	10.5	8.5	7.5	8.0
15	---	---	---	20.0	18.2	19.0	11.0	9.0	10.0	8.5	7.5	8.0
16	---	---	---	21.5	19.9	21.0	9.5	7.5	8.5	8.5	7.5	8.0
17	---	---	---	22.0	21.0	21.5	9.5	7.5	8.5	10.0	8.0	8.5
18	---	---	---	21.0	19.5	20.5	9.5	7.0	8.0	11.0	8.5	9.5
19	---	---	---	19.5	18.5	19.0	9.5	7.0	8.0	14.0	7.5	10.0
20	---	---	---	19.5	18.0	19.0	10.0	7.0	8.0	14.5	7.5	10.0
21	---	---	---	18.5	17.5	18.0	8.5	7.0	7.5	14.5	8.0	10.0
22	---	---	---	18.0	16.0	17.0	9.5	7.0	8.0	9.5	8.0	9.0
23	---	---	---	16.0	14.5	15.5	8.5	7.0	8.0	9.5	7.5	8.5
24	---	---	---	15.0	12.5	14.0	8.5	7.0	8.0	9.5	7.5	8.0
25	---	---	---	13.0	11.0	12.0	9.0	7.0	8.0	11.0	7.5	9.0
26	---	---	---	13.0	11.0	12.0	9.5	7.0	8.0	11.0	7.5	8.5
27	---	---	---	13.5	12.0	12.5	9.5	7.0	8.0	10.5	8.5	9.5
28	---	---	---	14.5	12.5	13.0	8.5	7.5	7.5	11.5	9.0	10.0
29	---	---	---	13.0	12.5	12.5	9.5	7.5	8.0	12.5	8.0	9.5
30	---	---	---	13.5	11.5	12.5	10.5	7.0	8.0	11.5	7.5	9.5
31	---	---	---	11.5	10.0	11.0	10.0	7.0	8.0	---	---	---
MONTH	---	---	---	---	---	---	13.5	7.0	9.5	14.5	7.0	8.5

DELAWARE RIVER BASIN

01426500 WEST BRANCH DELAWARE RIVER AT HALE EDDY, NY

LOCATION.--Lat 42°00'11", long 75°23'02", Delaware County, Hydrologic Unit 02040101, on left bank at downstream side of bridge on County Highway 56 in Hale Eddy, and 9 mi upstream from confluence of East and West Branches near Hancock. Water-quality sampling site at discharge station.

DRAINAGE AREA.--595 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 871: 1916. WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 946.46 ft above sea level. Prior to Sept. 8, 1928, nonrecording gage.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Subsequent to October 1963, entire flow from 454 mi² drainage area controlled by Cannonsville Reservoir (see Reservoirs in Delaware River Basin). Part of flow diverted for New York City municipal supply. Remainder of flow (except for conservation releases and spill) impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master. Satellite gage-height and temperature telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,900 ft³/s, Mar. 22, 1948, gage height, 15.69 ft; maximum gage height, 15.8 ft, Sept. 30, 1924, from graph based on gage readings; minimum discharge, 17 ft³/s, Oct. 20, 1963; minimum gage height, 1.03 ft, Aug. 4, 1936.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 10, 1903, reached a stage of 20.3 ft, from floodmarks, discharge, about 46,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,200 ft³/s, Jan. 19, gage height, 11.51 ft; minimum, 77 ft³/s, Oct. 9, gage height, 1.54 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	886	190	366	e110	2490	1570	876	3830	237	418	785	666
2	1070	205	367	e110	2080	1350	920	3780	261	391	699	783
3	1030	235	309	e110	1740	e1100	864	3360	139	400	607	876
4	795	212	338	e110	e1400	900	827	3010	98	449	580	986
5	152	187	300	e110	e1100	762	772	2800	100	482	580	901
6	288	173	280	e100	e1000	860	698	2690	90	428	601	494
7	155	171	251	e100	e900	e790	681	2620	85	406	625	613
8	104	188	231	e100	826	e700	754	2380	457	396	527	376
9	84	165	e220	e100	906	e580	712	2160	656	391	534	362
10	284	151	e200	e110	910	e490	644	2100	1400	383	464	355
11	456	154	e190	e110	892	e430	511	3140	1770	374	479	351
12	529	1260	e180	e110	e800	e420	493	5960	1850	368	483	299
13	717	756	e180	e110	e720	450	1730	6380	2450	901	469	735
14	628	607	e180	e100	e650	553	3560	5240	2030	1480	453	849
15	470	873	e170	e98	e580	838	3140	4150	1650	2090	573	536
16	165	765	e170	e100	e540	996	4580	3260	1220	2560	625	491
17	108	602	e160	e110	e510	1000	5070	2610	879	2530	420	396
18	103	508	e150	e180	e450	1020	4520	2210	688	2130	381	400
19	93	459	e150	e6600	e440	1110	3780	2030	621	1990	371	209
20	131	420	e140	4080	439	1920	3050	1800	594	2130	367	139
21	2810	394	e140	1380	1120	2060	2530	1460	546	1770	503	116
22	1960	377	e140	777	1620	1950	2240	1160	483	1460	657	153
23	799	335	e140	561	1810	1730	2040	903	456	1070	710	258
24	505	295	e130	731	2390	1510	2190	720	419	803	661	170
25	372	262	e130	1460	2500	1360	2230	565	408	628	562	200
26	295	245	e130	2070	2370	1420	1890	446	394	659	584	158
27	249	236	e120	3970	1970	1350	1650	358	382	699	613	140
28	289	395	e120	5830	2010	1220	1400	286	395	694	761	137
29	264	444	e130	4950	1880	1130	1580	232	386	663	451	328
30	232	377	e120	3950	---	1050	2600	186	496	629	354	303
31	204	---	e120	3200	---	941	---	156	---	592	481	---
TOTAL	16227	11641	5952	41537	37043	33560	58532	71982	21640	30364	16960	12780
MEAN	523	388	192	1340	1277	1083	1951	2322	721	979	547	426
MAX	2810	1260	367	6600	2500	2060	5070	6380	2450	2560	785	986
MIN	84	151	120	98	439	420	493	156	85	368	354	116

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1996, BY WATER YEAR (WY)

	MEAN	667	501	561	562	717	1225	1688	978	641	688	651	621
MAX	2123	1641	2350	2494	3107	3617	5167	2322	1899	1456	1698	1604	1604
(WY)	1976	1978	1978	1978	1976	1986	1993	1996	1968	1971	1968	1972	1972
MIN	33.2	41.8	172	127	94.2	158	194	122	132	76.2	107	45.4	45.4
(WY)	1964	1965	1982	1970	1989	1981	1985	1985	1965	1965	1985	1964	1964

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1964 - 1996
ANNUAL TOTAL	201516	358218	
ANNUAL MEAN	552	979	791
HIGHEST ANNUAL MEAN			1411
LOWEST ANNUAL MEAN			204
HIGHEST DAILY MEAN	3270	Mar 9	15900
LOWEST DAILY MEAN	84	Oct 9	18
ANNUAL SEVEN-DAY MINIMUM	124	Dec 25	26
10 PERCENT EXCEEDS	979		1740
50 PERCENT EXCEEDS	409		479
90 PERCENT EXCEEDS	152		120

e Estimated

DELAWARE RIVER BASIN

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01426500 WEST BRANCH DELAWARE RIVER AT HALE EDDY, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1958-59, 1968 to current year.

CHEMICAL DATA: 1958-59 (d), 1970 (b), 1971-74 (d), 1975 (c).

MINOR ELEMENTS DATA: 1971-74 (a).

ORGANIC DATA: OC--1974 (a), 1975 (c).

NUTRIENT DATA: 1971-74 (d), 1975 (c).

BIOLOGICAL DATA:

Bacteria--1971, 1973 (c); 1974 (d); 1975 (c).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1967 to current year (no winter record for water years 1969-77).

INSTRUMENTATION.--Water-temperature satellite telemeter provides one-hour-interval readings. Prior to May 1993, water-temperature recorder since October 1976, provided one-hour-interval readings. Prior to October 1976, water-temperature recorder provided continuous recordings.**REMARKS.**--Water temperature is affected by release of water from upstream reservoir. Interruptions of record were due to malfunction of recording instrument.**EXTREMES FOR PERIOD OF DAILY RECORD.**--

WATER TEMPERATURES: Maximum (water years 1968-77, 1979-83, 1985, 1988-96), 30.5°C, July 22, 23, 1972, June 16, 1981; minimum (water years 1968, 1978-96), 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 25.0°C, June 7; minimum, 0.0°C on many days during winter period.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	19.5	15.5	17.0	11.5	7.5	9.5	3.0	.5	1.5	.0	.0	.0
2	19.5	16.0	17.5	12.0	10.5	11.0	3.0	1.5	2.0	.0	.0	.0
3	19.0	16.0	17.0	12.0	10.0	11.5	2.5	.5	1.0	.0	.0	.0
4	18.0	17.0	17.5	10.0	5.5	7.5	3.5	2.0	3.0	.0	.0	.0
5	17.5	16.5	16.5	7.0	4.0	5.0	2.0	.5	1.5	.0	.0	.0
6	19.5	15.5	17.0	7.0	3.0	5.0	2.5	1.0	1.5	.0	.0	.0
7	17.0	15.5	16.0	4.5	3.5	4.0	1.5	.0	.5	.0	.0	.0
8	15.5	13.5	14.5	6.0	3.0	5.0	.0	.0	.0	.0	.0	.0
9	17.5	12.0	14.5	3.5	1.5	2.5	.0	.0	.0	.0	.0	.0
10	18.0	13.0	15.0	4.0	1.5	3.0	.0	.0	.0	.0	.0	.0
11	19.0	14.5	16.5	9.5	3.5	---	.5	.0	.0	.0	.0	.0
12	19.0	14.0	16.0	9.0	4.0	5.5	.5	.0	.0	.0	.0	.0
13	19.0	15.0	16.5	4.0	2.5	3.0	.0	.0	.0	.0	.0	.0
14	17.0	15.0	16.0	3.0	1.5	---	.0	.0	.0	.0	.0	.0
15	16.0	12.0	14.5	3.5	1.5	3.0	.0	.0	.0	.0	.0	.0
16	12.0	10.0	11.0	4.0	2.5	3.5	.0	.0	.0	.0	.0	.0
17	13.5	8.5	10.5	4.0	2.0	3.0	.0	.0	.0	.0	.0	.0
18	13.5	8.0	11.0	3.0	2.5	2.5	.0	.0	.0	.0	.0	.0
19	14.0	9.5	11.5	4.0	2.5	3.5	.0	.0	.0	---	.0	---
20	14.0	11.0	12.5	4.0	3.5	4.0	.0	.0	.0	1.0	.0	.5
21	15.0	11.0	---	5.5	3.0	4.0	.0	.0	.0	.5	.0	.0
22	11.5	9.5	10.5	4.0	3.0	3.5	.0	.0	.0	1.5	.0	.5
23	12.0	9.0	10.5	3.0	2.0	2.5	.0	.0	.0	1.5	.5	1.0
24	13.0	8.5	11.0	3.0	1.0	2.0	.0	.0	.0	2.5	1.5	2.0
25	12.0	10.0	10.5	2.5	.0	1.0	.0	.0	.0	1.5	.0	.5
26	13.0	9.0	10.5	3.0	1.0	2.0	.0	.0	.0	1.5	.0	1.0
27	11.0	9.5	10.0	3.5	2.5	3.0	.0	.0	.0	2.5	---	---
28	13.5	11.0	12.0	5.0	3.0	4.0	.0	.0	.0	2.0	1.5	1.5
29	11.5	8.0	10.0	3.0	1.0	2.0	.0	.0	.0	2.0	1.5	1.5
30	9.5	7.5	8.0	1.5	.0	.5	.0	.0	---	2.0	1.5	1.5
31	7.5	7.0	7.0	---	---	---	.0	.0	.0	1.5	.5	1.0
MONTH	19.5	7.0	---	12.0	.0	---	3.5	.0	---	---	---	---

DELAWARE RIVER BASIN

01426500 WEST BRANCH DELAWARE RIVER AT HALE BDDY, NY--Continued

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

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

DELAWARE RIVER BASIN

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01427207 DELAWARE RIVER AT LORDVILLE, NY

LOCATION.--Lat 41°52'02", long 75°12'51", Wayne County, Pa., Hydrologic Unit 02040101, on right bank at site of the Lordville-Equinunk Interstate Bridge at Lordville, 9.7 mi southeast of Hancock.

DRAINAGE AREA.--1,590 mi².

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1967 to August 1971, June 1973 to May 1996 (discontinued).

REVISED RECORDS.--WDR NY-82-1: Drainage area.

INSTRUMENTATION.--Water-temperature satellite telemeter since June 1989, provides 15-minute-interval readings. From June 1987 to June 1989, water-temperature satellite telemeter provided one-hour-interval readings. From June 1973 to November 1989, water-temperature digital recorder provided one-hour-interval readings. Prior to August 1971, water-temperature recorder provided continuous recordings.

REMARKS.--Water temperature is affected by release of water from upstream reservoir. Interruptions of record were due to malfunction of recording instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum (water years 1968-70, 1973, 1975-86, 1989, 1991-95) 30.5°C, June 16, 1976, July 10, 1981; minimum (water years 1968-71, 1974, 1977-78, 1980-96), 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: (Oct. 1995 to May 1996): Maximum, 18.5°C, May 20, 24; minimum, 0.0°C on many days during winter period.

WATER TEMPERATURE, DEGREES CELSIUS, OCTOBER 1995 TO MAY 1996

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

DELAWARE RIVER BASIN

01427207 DELAWARE RIVER AT LORDVILLE, NY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, OCTOBER 1995 TO MAY 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	.5	.0	.0	.5	.0	.0	7.0	5.5	6.0	9.5	8.0	8.5
2	.5	.0	.5	1.5	.0	.5	7.0	4.5	5.5	10.0	7.5	8.5
3	.5	.5	.5	1.5	.0	.5	5.5	5.0	5.0	9.0	7.0	8.0
4	.5	.5	.5	.5	.0	.0	6.5	4.0	5.0	9.0	8.0	8.5
5	.5	.5	.5	.0	.0	.0	6.5	4.5	5.5	11.5	8.5	9.5
6	.5	.5	.5	1.0	.0	.5	6.5	4.0	5.0	11.0	9.5	10.0
7	.5	.5	.5	.5	.0	.0	6.0	5.0	5.5	10.5	8.5	9.5
8	.5	.5	.5	.0	.0	.0	5.5	4.0	4.5	12.5	9.5	10.5
9	.5	.5	.5	.0	.0	.0	5.5	4.0	5.0	12.0	10.5	11.0
10	1.0	.5	.5	.0	.0	.0	5.5	4.5	4.5	13.5	10.0	11.5
11	1.0	1.0	1.0	.0	.0	.0	7.0	3.5	5.0	13.5	12.0	13.0
12	1.0	.5	.5	.0	.0	.0	7.5	6.5	7.0	12.0	8.5	10.0
13	.5	.0	.5	.0	.0	.0	7.5	6.0	6.5	8.5	7.0	7.5
14	.0	.0	.0	.0	.0	.0	6.0	4.5	5.0	10.0	7.0	8.5
15	.5	.0	.0	2.5	.0	1.0	6.5	3.5	5.0	11.5	8.0	9.5
16	.5	.0	.0	3.5	1.0	2.0	6.5	5.0	5.5	11.0	9.5	9.5
17	.5	.0	.5	3.0	1.0	2.5	5.0	4.0	4.5	13.5	9.5	11.5
18	.5	.5	.5	5.0	3.0	3.5	7.0	3.5	5.0	14.0	12.0	13.0
19	.5	.5	.5	4.5	3.0	4.0	7.5	5.0	6.0	17.5	13.5	15.0
20	.5	.5	.5	4.5	3.0	4.0	8.5	6.0	7.0	18.5	14.5	16.5
21	.5	.0	.0	3.5	2.5	3.0	9.5	7.0	8.5	18.0	15.0	16.0
22	.5	.0	.5	3.0	2.0	2.5	10.5	7.0	9.0	16.5	13.5	15.0
23	1.5	.0	.5	2.5	1.0	2.0	11.0	9.5	10.5	17.5	14.5	16.0
24	2.5	1.5	2.0	4.0	1.0	2.5	10.5	8.0	9.0	18.5	15.5	16.5
25	3.0	1.0	2.0	6.5	2.5	4.5	8.5	7.0	8.0	---	---	---
26	3.0	1.5	2.5	6.5	5.0	6.0	9.0	8.0	8.5	---	---	---
27	2.5	1.5	2.0	5.0	2.0	3.5	9.0	7.5	8.5	---	---	---
28	3.5	2.5	3.0	3.5	2.0	2.5	9.5	7.0	8.0	---	---	---
29	2.5	.0	1.0	4.0	2.5	3.0	9.5	8.0	8.5	---	---	---
30	---	---	---	7.0	3.5	5.0	9.0	8.0	8.5	---	---	---
31	---	---	---	8.0	4.5	6.0	---	---	---	---	---	---
MONTH	3.5	.0	.5	8.0	.0	2.0	11.0	3.5	6.5	---	---	---

DELAWARE RIVER BASIN

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01427301 DELAWARE RIVER NEAR HANKINS, NY

LOCATION.--Lat 41°49'25", long 75°06'48", Sullivan County, Hydrologic Unit 02040101, on left bank 5 ft downstream from Kellams Bridge, and 1.5 mi northwest of Hankins.

DRAINAGE AREA.--1,668 mi².

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: August 1993 to current year.

INSTRUMENTATION.--Water-temperature satellite telemeter since March 1994, provides 15-minute-interval readings. From August 1993 to March 1994, water-temperature recorder provided 15-minute-interval readings.

REMARKS.--Water temperature is affected by release of water from upstream reservoir. Interruptions of record were due to malfunction of recording instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum (water years 1994-96), 27.5°C, July 15, 1995; minimum (water years 1994-96), 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 24.5°C, Aug. 6, 7; minimum, 0.0°C on many days during winter period.

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

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

DELAWARE RIVER BASIN

01427301 DELAWARE RIVER NEAR HANKINS, NY--Continued

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

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

DELAWARE RIVER BASIN

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01427510 DELAWARE RIVER AT CALLICOON, NY

LOCATION.--Lat 41°45'24", long 75°03'28", Wayne County, Pennsylvania, Hydrologic Unit 02040101, on right bank, 0.5 mi downstream from Callicoon Creek, 0.5 mi downstream from Interstate Bridge 7, and 0.8 mi southeast of Callicoon. Water-quality sampling site at discharge station.

DRAINAGE AREA.--1,820 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR NY-82-1: Drainage area. WDR NY-86-1: 1975-84 (M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 734.88 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Subsequent to September 1954, entire flow from 371 mi² of drainage area controlled by Pepacton Reservoir (see Reservoirs in Delaware River Basin), and subsequent to October 1963, entire flow from 454 mi² of drainage area controlled by Cannonsville Reservoir (see Reservoirs in Delaware River Basin). Part of flow from these reservoirs diverted for New York City municipal supply. Remainder of flow (except for conservation releases and spill) impounded for release during period of low flow in the lower Delaware River basin, as directed by the Delaware River Master. Satellite gage-height and temperature telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 95,600 ft³/s, Jan. 19, 1996, gage-height, 16.31 ft; minimum, 307 ft³/s, Aug. 23, 1985; minimum gage height, 2.20 ft, Sept. 13, 1977, Aug. 23, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 95,600 ft³/s, Jan. 19, gage height, 16.31 ft; minimum, 487 ft³/s, Sept. 13, 14; minimum gage height, 2.56 ft, Oct. 10.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1230	2370	1990	e680	e6100	5310	3160	17500	1080	1600	2300	968
2	1280	2310	2110	e750	e4700	4680	3450	14300	1120	1370	2170	1120
3	1320	3080	1910	e720	e3800	4090	3360	11500	1110	1260	1890	1180
4	1420	3120	1950	e700	e3100	e3300	3150	9880	990	1470	1670	1200
5	1180	2520	1990	e720	e2200	e2900	2960	8800	1020	1810	1560	1360
6	1190	2160	1840	e700	e2000	e3100	2820	8240	995	1670	1540	1040
7	1470	1970	1710	e680	e2100	e3100	2710	8330	858	1420	1490	1040
8	914	2080	e1500	e680	e2200	e2500	3090	7320	1260	1290	1400	1130
9	661	1900	e1400	e680	e2100	e2000	2990	6560	2630	1320	1280	924
10	561	1610	e1300	e640	e2000	e1900	2780	6740	3640	1290	1340	833
11	859	1510	e1200	e700	e1800	e2000	2580	9060	6450	1220	1200	753
12	999	8800	e1200	e720	e1500	e2100	2410	17300	6620	1060	1130	710
13	1080	7560	e1200	e680	e1300	e2200	5320	17100	7400	3060	1080	641
14	1230	5620	e1200	e900	e1200	e2600	12000	13800	5940	9330	1040	1280
15	2340	7400	e1300	e1100	e1200	3750	10400	11000	4650	6680	1020	1140
16	2220	7040	e1100	e1500	e1100	4610	18800	9040	3530	11000	1140	835
17	1270	5160	e1200	e1300	e1100	4190	21000	7730	2580	8570	1180	1010
18	955	4160	e1000	e1200	e1100	3990	15900	6720	2100	6860	1000	2170
19	814	3670	e900	e34000	e1000	4090	12300	6210	1920	5990	896	1840
20	716	3320	e850	48100	e1100	5990	9910	5510	2210	6610	840	1080
21	7990	3020	e880	12800	e5000	6970	8220	4860	1960	5130	812	779
22	19700	2830	e720	8000	7950	6150	7180	4560	1700	4040	986	695
23	7560	2490	e650	5930	8830	5320	6430	3810	1600	3210	1080	1070
24	4670	2200	e680	5730	9710	4610	6920	3150	1500	2650	1310	1130
25	3360	1930	e720	8660	10200	4160	7100	2630	1330	2030	1240	967
26	2560	1780	e780	7150	8360	4340	6560	2160	1220	3530	1130	906
27	2060	1690	e800	12200	6950	4520	6070	1860	1120	4460	981	779
28	4040	1680	e780	21900	6420	4050	5510	1630	1090	3290	1300	717
29	5760	2240	e720	13100	6470	3810	5820	1450	1170	2810	1530	1220
30	3650	2100	e700	9930	---	3680	11500	1310	1250	2510	999	1540
31	2780	---	e650	7980	---	3350	---	1190	---	2160	852	---
TOTAL	87839	99320	36930	210530	112590	119360	212400	231250	72043	110700	39386	32057
MEAN	2834	3311	1191	6791	3882	3850	7080	7460	2401	3571	1271	1069
MAX	19700	8800	2110	48100	10200	6970	21000	17500	7400	11000	2300	2170
MIN	561	1510	650	640	1000	1900	2410	1190	858	1060	812	641

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

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
MEAN	2137	2607	2409	2401	2711	4542	5754	3466	1649	1331	1309	1439										
MAX	6545	4508	6065	7594	7993	11080	14500	7866	3228	3571	2710	3716										
(WY)	1978	1987	1978	1978	1976	1977	1993	1984	1984	1996	1994	1977										
MIN	701	1130	1127	587	611	1177	1496	935	734	777	560	839										
(WY)	1992	1979	1990	1977	1980	1981	1985	1985	1985	1981	1985	1994										

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR				FOR 1996 WATER YEAR				WATER YEARS 1975 - 1996			
ANNUAL TOTAL	734408				1364405				2638			
ANNUAL MEAN	2012				3728				1978			
HIGHEST ANNUAL MEAN									3972			
LOWEST ANNUAL MEAN									1434			
HIGHEST DAILY MEAN	19700	Oct 22	48100	Jan 20	54800	Mar 15	1986					
LOWEST DAILY MEAN	561	Oct 10	561	Oct 10	312	Aug 23	1985					
ANNUAL SEVEN-DAY MINIMUM	733	Dec 22	683	Jan 7	354	Aug 17	1985					
10 PERCENT EXCEEDS	4350		8340		5920							
50 PERCENT EXCEEDS	1300		2010		1390							
90 PERCENT EXCEEDS	844		834		774							

e Estimated

DELAWARE RIVER BASIN

01427510 DELAWARE RIVER AT CALLICOON, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: June 1975 to current year.

INSTRUMENTATION.--Water-temperature satellite telemeter since May 1989, provides 15-minute-interval readings. Prior to May 1989, water-temperature digital recorder provided one-hour-interval punches.**REMARKS.**--Water temperature is affected by release of water from upstream reservoir. Interruptions of record were due to malfunction of recording instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, (water years 1976-96), 30.5°C, July 12, 1987; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 26.5°C, Aug. 6, 7, 8; minimum, 0.0°C on many days during winter period.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	16.5	13.5	15.0	9.0	7.5	8.5	1.0	.0	.5	.0	.0	.0
2	18.0	14.5	16.0	10.5	9.0	10.0	1.5	.5	1.0	.0	.0	.0
3	18.0	15.0	16.5	11.5	10.5	11.0	1.5	.5	1.0	.0	.0	.0
4	17.5	17.0	17.0	10.5	7.5	9.0	2.5	1.5	1.5	.0	.0	.0
5	17.5	16.5	17.0	7.5	5.5	6.5	2.0	1.0	1.5	.0	.0	.0
6	18.5	15.5	17.0	6.0	4.5	5.0	1.5	.5	1.0	.0	.0	.0
7	17.5	16.0	16.5	4.5	4.0	4.5	1.0	.0	.5	.0	.0	.0
8	16.0	14.5	15.5	5.5	3.5	4.5	.0	.0	.0	.0	.0	.0
9	15.5	13.5	14.5	4.0	2.5	3.5	.0	.0	.0	.0	.0	.0
10	16.0	13.0	14.5	3.5	2.5	3.0	.0	.0	.0	.0	.0	.0
11	16.5	14.0	15.5	7.5	3.0	4.5	.0	.0	.0	.0	.0	.0
12	17.0	13.5	15.5	7.5	5.0	6.0	.0	.0	.0	.0	.0	.0
13	17.5	14.0	16.0	5.0	3.0	4.0	.0	.0	.0	.0	.0	.0
14	16.0	14.5	15.0	3.0	2.5	2.5	.0	.0	.0	.0	.0	.0
15	15.5	12.5	14.0	3.0	2.5	2.5	.0	.0	.0	.0	.0	.0
16	12.5	10.5	11.5	3.5	3.0	3.0	.0	.0	.0	.0	.0	.0
17	11.5	9.5	10.5	3.5	2.5	3.0	.0	.0	.0	.0	.0	.0
18	12.0	9.0	10.5	3.0	3.0	3.0	.0	.0	.0	.0	.0	.0
19	13.0	9.5	11.5	3.5	3.0	3.0	.0	.0	.0	---	.0	---
20	13.0	11.0	11.5	4.0	3.5	3.5	.0	.0	.0	---	.0	---
21	14.0	12.0	13.0	4.5	3.5	4.0	.0	.0	.0	---	.0	---
22	12.0	10.5	11.5	4.0	3.5	3.5	.0	.0	.0	1.0	.0	---
23	11.0	10.0	10.5	3.5	2.5	3.0	.0	.0	.0	1.0	.5	1.0
24	11.5	10.0	10.5	2.5	1.5	2.0	.0	.0	.0	2.0	1.0	1.5
25	11.5	10.5	11.0	1.5	.5	1.0	.0	.0	.0	2.0	.5	1.0
26	11.5	10.0	10.5	2.0	.5	1.0	.0	.0	.0	.5	.0	.0
27	11.5	10.0	10.5	2.5	1.5	2.0	.0	.0	.0	2.0	.0	1.5
28	12.0	11.0	11.5	3.5	2.5	3.0	.0	.0	.0	2.0	1.0	1.0
29	11.5	9.5	11.0	2.5	1.5	2.0	.0	.0	.0	1.0	.5	.5
30	9.5	8.0	9.0	1.5	.0	.5	.0	.0	.0	1.0	.5	1.0
31	8.0	7.5	8.0	---	---	---	.0	.0	.0	1.0	.0	.5
MONTH	18.5	7.5	13.0	11.5	.0	4.0	2.5	.0	.0	---	.0	---

DELAWARE RIVER BASIN

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01427510 DELAWARE RIVER AT CALLICOON, NY--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	.0	.0	.0	1.0	.0	.5	7.5	6.0	6.5	9.5	8.0	9.0
2	.0	.0	.0	1.0	.0	.5	7.5	5.0	6.0	9.5	8.5	9.0
3	.0	.0	.0	1.5	.0	.5	6.5	5.0	5.5	9.0	7.5	8.0
4	.0	.0	.0	.0	.0	.0	7.0	4.5	5.5	8.5	8.0	8.0
5	.0	.0	.0	.0	.0	.0	7.0	5.0	6.0	11.0	8.5	9.5
6	.0	.0	.0	1.0	.0	.5	8.0	4.0	6.0	11.0	9.0	10.0
7	.0	.0	.0	.5	.0	.5	6.5	5.0	6.0	10.0	8.5	9.5
8	.0	.0	.0	---	---	---	6.5	4.0	5.0	12.0	9.5	10.5
9	.0	.0	.0	---	---	---	6.5	3.5	5.0	11.5	11.0	11.5
10	.5	.0	.0	---	---	---	6.0	4.0	5.0	12.5	10.5	11.0
11	1.0	.0	.5	1.5	---	---	8.0	3.5	6.0	14.0	12.5	13.0
12	.0	.0	.0	2.0	.0	1.0	9.0	6.5	7.5	12.5	8.5	10.5
13	.0	.0	.0	3.0	.0	1.0	8.0	6.0	7.0	8.5	7.0	7.5
14	.0	.0	.0	3.0	.0	1.5	6.0	4.5	5.5	9.0	7.0	8.0
15	.0	.0	.0	2.0	.5	1.5	6.0	4.0	5.0	10.5	8.5	9.5
16	.0	.0	.0	3.5	1.0	2.0	6.0	5.0	5.5	10.5	9.0	10.0
17	.0	.0	.0	4.0	1.5	2.5	5.0	4.0	4.5	12.5	9.0	10.5
18	.0	.0	.0	5.5	3.0	4.0	6.5	3.5	4.5	13.5	12.5	13.0
19	.0	.0	.0	5.0	3.5	4.0	7.0	6.0	6.5	16.5	13.0	15.0
20	.0	.0	.0	4.5	3.5	4.0	8.0	7.0	7.5	19.0	16.0	17.5
21	.0	.0	.0	4.0	3.0	3.5	9.5	8.0	9.0	18.5	15.5	17.5
22	.5	.0	.0	3.0	2.0	2.5	10.5	8.5	9.5	17.0	14.5	15.5
23	1.0	.0	.5	2.5	1.5	2.0	12.5	10.0	11.5	---	15.0	---
24	2.0	1.0	1.5	4.0	1.5	2.5	11.0	9.0	10.0	19.0	16.0	---
25	3.0	1.5	2.0	6.0	3.0	4.5	9.0	8.0	8.5	19.0	14.5	16.5
26	3.0	2.0	2.5	7.5	5.0	6.5	10.0	8.0	9.0	17.0	14.5	15.5
27	3.0	2.0	2.5	5.5	3.0	4.5	10.0	8.5	9.0	---	---	---
28	4.0	2.5	3.0	3.5	2.5	3.0	10.0	7.5	9.0	---	---	---
29	3.0	.5	1.5	4.5	2.0	3.0	9.0	8.0	9.0	---	---	---
30	---	---	---	7.0	3.5	5.0	9.0	7.5	8.0	---	---	---
31	---	---	---	9.0	5.0	6.5	---	---	---	18.5	---	---
MONTH	4.0	.0	.5	---	---	---	12.5	3.5	7.0	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	---	---	---	22.5	18.0	19.5	21.0	17.5	19.0	24.0	19.5	22.0
2	---	---	---	25.0	19.0	22.0	23.0	18.5	20.5	23.5	20.0	22.0
3	---	---	---	23.0	21.0	22.0	22.0	20.0	21.0	24.0	19.5	21.5
4	21.0	---	---	21.0	18.0	19.5	24.0	20.0	21.5	22.0	19.0	20.0
5	22.0	18.0	20.0	21.5	16.5	19.0	26.0	21.0	23.0	19.5	17.5	18.5
6	23.0	17.5	20.5	---	---	---	26.5	22.0	24.0	20.5	17.0	18.5
7	24.5	19.5	22.0	---	---	---	26.5	22.5	24.5	20.5	19.0	20.0
8	25.5	22.0	24.0	---	---	---	26.5	23.0	24.5	21.5	19.0	20.0
9	25.5	22.5	23.5	26.0	22.2	---	24.5	22.5	23.0	23.5	19.5	21.5
10	23.0	21.0	22.0	23.5	20.5	22.0	23.5	20.0	22.0	24.0	21.5	23.0
11	21.0	19.5	20.0	24.5	19.0	22.0	23.0	18.0	21.0	23.5	21.0	22.5
12	21.0	19.5	20.0	24.0	19.0	21.5	21.5	19.0	20.0	22.5	20.5	21.0
13	20.5	19.5	20.0	22.5	18.5	20.0	22.5	19.0	20.5	21.0	19.0	19.5
14	21.0	19.5	20.0	19.0	17.0	18.0	24.0	19.0	22.0	20.0	17.5	18.5
15	22.5	20.0	21.0	19.5	18.5	19.0	24.5	21.0	22.5	17.5	15.0	16.0
16	23.0	20.0	21.5	19.5	18.5	19.0	23.0	21.0	22.0	16.0	14.5	15.5
17	22.0	20.5	21.0	20.5	19.0	19.5	24.0	20.0	22.0	15.5	15.0	15.0
18	21.5	19.5	20.5	21.5	19.5	20.5	24.5	20.0	22.5	15.5	14.0	15.0
19	20.5	18.0	19.0	22.0	20.5	21.0	26.0	20.5	23.5	17.5	14.0	15.5
20	18.0	17.0	17.5	20.5	18.5	19.5	25.5	22.0	24.0	18.5	14.5	16.5
21	21.5	17.0	19.0	20.5	18.0	19.0	24.5	22.5	23.5	19.5	15.5	17.5
22	19.5	18.5	19.0	21.5	18.5	19.5	26.0	21.5	23.5	18.5	16.0	16.5
23	22.5	17.5	20.0	20.5	19.5	20.0	24.5	21.5	23.0	16.0	14.5	15.5
24	21.5	18.0	19.5	23.0	18.5	20.5	23.5	21.0	22.0	14.5	13.0	13.5
25	21.5	19.5	20.5	22.0	20.0	21.0	24.0	19.0	21.5	14.5	12.5	13.5
26	22.5	17.5	20.0	23.0	20.0	21.5	24.5	19.5	22.0	14.5	12.0	13.0
27	23.5	17.5	20.5	21.0	19.5	20.0	24.5	20.5	22.5	14.5	13.5	14.0
28	25.0	20.0	22.5	21.5	18.5	20.0	24.0	21.0	22.5	16.0	14.5	15.0
29	23.0	20.5	21.0	20.0	19.0	19.5	22.5	20.0	21.5	16.5	14.0	15.5
30	20.5	18.5	19.5	19.0	17.5	18.0	23.0	18.5	21.0	16.5	14.0	15.0
31	---	---	---	18.0	17.0	17.5	23.5	19.0	21.5	---	---	---
MONTH	---	---	---	---	---	---	26.5	17.5	22.0	24.0	12.0	17.5

DELAWARE RIVER BASIN

01428500 DELAWARE RIVER ABOVE LACKAWAXEN RIVER NEAR BARRYVILLE, NY

LOCATION.--Lat 41°30'32", long 74°59'10", Sullivan County, Hydrologic Unit 02040101, on left bank, 1.6 mi upstream from Lackawaxen River, and 4.6 mi northwest of Barryville. Water-quality sampling site at discharge station.

DRAINAGE AREA.--2,020 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 600.22 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Subsequent to September 1954, entire flow from 371 mi² of drainage area controlled by Pepacton Reservoir, and subsequent to October 1963, entire flow from 454 mi² of drainage area controlled by Cannonsville Reservoir (see Reservoirs in Delaware River Basin). Part of flow of these reservoirs diverted for New York City municipal supply. Remainder of flow (except for conservation releases and spill) impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master. Telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 130,000 ft³/s, Aug. 19, 1955, gage height, 26.40 ft, from floodmarks in gage house, from rating curve extended above 55,000 ft³/s, on basis of slope-area measurement at gage height 23.19 ft; minimum discharge, 122 ft³/s, Sept. 5, 1953, gage height, 1.11 ft; minimum daily, 126 ft³/s, Sept. 4, 1953.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 98,300 ft³/s, Jan. 20, gage height, 22.18 ft, recorded in gage well; outside gage height, 22.45 ft, from floodmarks; minimum daily discharge, 663 ft³/s, Oct. 10.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1280	2960	2510	e800	e5800	5660	3430	19600	1040	1970	2790	953
2	1230	2810	2680	e850	e4300	5030	3670	15900	990	1700	2730	1110
3	1380	3480	2500	e900	e3300	4380	3680	12500	1030	1720	2320	1180
4	1370	3810	2430	e880	e2800	3630	3450	10600	991	1850	2010	1230
5	1470	3210	2580	e820	e2400	3220	3280	9260	947	2170	1810	1330
6	1190	2730	2370	e880	e2300	e2900	3120	8600	977	2090	1720	1280
7	1650	2420	2170	e850	e2400	e2400	3010	8810	873	1680	1620	919
8	1180	2520	e1700	e850	e2500	e2100	3440	7650	853	1470	1560	1350
9	834	2410	e1400	e860	e2600	e2000	3470	6740	2570	1630	1400	1060
10	663	1980	e1300	e830	e2700	e2000	3190	7140	3540	1500	1460	945
11	752	1760	e1200	e860	e2200	e2100	2970	9130	6520	1400	1310	849
12	995	8830	e1300	e900	e1800	e2200	2730	18700	6750	1230	1230	793
13	1050	9890	e1500	e860	e1600	e2400	4780	18900	7950	3470	1180	777
14	1210	6780	e1400	e980	e1400	3020	12000	15100	6460	10800	1140	1020
15	2020	9000	e1500	e1200	e1400	3980	11800	11900	5150	7790	1090	1270
16	2860	9060	e1400	e1800	e1400	5400	20300	9610	4110	11700	1200	1020
17	1570	6490	e1300	e1600	e1300	4790	24600	8090	3260	9540	1260	1140
18	1110	5230	e1300	e1500	e1300	4450	18000	6960	2790	7470	1130	3160
19	934	4560	e1100	e24000	e1300	4530	13700	6320	2480	6470	1020	2810
20	823	4240	e1000	63000	e1300	6130	10800	5610	2850	6810	941	1600
21	4340	3890	e1000	16900	e4000	7860	8760	4980	2590	5670	905	1100
22	23800	3720	e900	9570	e8000	6830	7480	4830	2170	4550	957	923
23	9390	3320	e780	6780	e8500	5830	6630	4030	1900	3780	1150	1180
24	5600	2960	e820	6150	e10500	5030	6980	3400	1840	3230	1450	1480
25	4080	2580	e880	9760	11800	4490	7210	2880	1570	2630	1460	1240
26	3210	2290	e950	7700	9390	4440	6720	2330	1390	3920	1180	1160
27	2560	2150	e1000	13100	7670	4760	6120	1950	1280	5270	1150	1030
28	3580	2080	e950	28200	6800	4330	5560	1670	1230	3940	1180	938
29	6660	2670	e850	16000	6990	4010	5720	1440	1290	3400	1840	1300
30	4450	2740	e900	11300	---	3930	12000	1270	1390	3100	1250	1940
31	3460	---	e780	8770	---	3660	---	1150	---	2750	992	---
TOTAL	96701	122570	44450	239450	119750	127490	228600	247050	78781	126700	44435	38087
MEAN	3119	4086	1434	7724	4129	4113	7620	7969	2626	4087	1433	1270
MAX	23800	9890	2680	63000	11800	7860	24600	19600	7950	11700	2790	3160
MIN	663	1760	780	800	1300	2000	2730	1150	853	1230	905	777

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1996, BY WATER YEAR (WY)

	MEAN	2074	2721	2944	2698	2987	5069	6524	4031	2235	1613	1402	1511
MAX	7404	6481	7375	8335	9389	12050	16500	8615	6701	4087	3033	4186	
(WY)	1978	1973	1974	1978	1976	1977	1993	1984	1972	1996	1994	1987	
MIN	527	610	1181	687	712	1399	1878	1161	673	328	465	448	
(WY)	1964	1965	1989	1977	1980	1981	1985	1965	1965	1965	1965	1965	

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1964 - 1996	
ANNUAL TOTAL	849442		1514064			
ANNUAL MEAN	2327		4137		2981	
HIGHEST ANNUAL MEAN					4650	
LOWEST ANNUAL MEAN					1297	
HIGHEST DAILY MEAN	23800	Oct 22	63000	Jan 20	63000	Jan 20 1996
LOWEST DAILY MEAN	663	Oct 10	663	Oct 10	250	Oct 27 1963
ANNUAL SEVEN-DAY MINIMUM	890	Dec 23	844	Dec 31	264	Oct 23 1963
10 PERCENT EXCEEDS	5120		9170		6520	
50 PERCENT EXCEEDS	1420		2450		1630	
90 PERCENT EXCEEDS	993		946		851	

e Estimated

DELAWARE RIVER BASIN

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01428500 DELAWARE RIVER ABOVE LACKAWAXEN RIVER NEAR BARRYVILLE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to current year.

CHEMICAL DATA: 1971-73 (a).

NUTRIENT DATA: 1971 (a).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1967 to current year (no winter record for water years 1969-76).

INSTRUMENTATION.--Water-temperature recorder since October 1975, provides one-hour-interval readings. Prior to October 1975, water-temperature recorder provided continuous recordings.

REMARKS.--Interruptions of record were due to malfunction of recording instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum (water years 1968-75, 1980-81, 1983, 1985-96), 32.5°C, July 9, 10, 1993; minimum (water years 1968, 1977-96), 0.0°C, on many days during winter periods, each year except water years 1980-82.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 27.5°C, Aug. 22, 23; minimum, 0.0°C on many days during winter period.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	16.0	14.0	15.5	---	---	---	2.0	.5	1.0	.0	.0	.0
2	17.0	14.5	16.0	---	---	---	2.0	1.0	1.0	.0	.0	.0
3	17.5	15.5	16.5	11.0	10.0	10.5	1.5	1.0	1.0	.0	.0	.0
4	18.0	17.0	17.5	10.5	8.5	9.5	2.5	1.5	2.0	.0	.0	.0
5	17.5	17.0	17.5	8.5	6.0	7.5	2.0	1.0	1.5	.0	.0	.0
6	19.0	16.5	17.5	7.0	5.0	6.0	2.0	1.0	1.5	.0	.0	.0
7	18.5	17.0	17.5	5.0	4.5	5.0	1.5	.0	1.0	.0	.0	.0
8	17.0	15.5	16.5	5.5	4.0	4.5	1.0	.0	.0	.0	.0	.0
9	17.0	14.5	15.5	4.5	3.0	4.0	.0	.0	.0	.0	.0	.0
10	18.0	13.5	15.5	4.0	3.0	3.5	.0	.0	.0	.0	.0	.0
11	19.0	14.0	15.5	6.5	3.0	4.5	.0	.0	.0	.0	.0	.0
12	17.0	14.0	15.5	6.5	5.5	6.0	.0	.0	.0	.0	.0	.0
13	17.0	15.0	16.0	5.5	3.5	4.5	.0	.0	.0	.0	.0	.0
14	16.5	15.5	16.0	3.5	2.5	3.0	.0	.0	.0	.0	.0	.0
15	16.0	14.0	15.0	3.0	2.5	3.0	.0	.0	.0	.0	.0	.0
16	14.5	11.5	13.0	3.0	2.5	3.0	.0	.0	.0	.0	.0	.0
17	12.0	10.5	11.0	3.5	2.5	3.0	.0	.0	.0	.0	.0	.0
18	11.5	9.5	11.0	3.0	2.5	2.5	.0	.0	.0	.0	.0	.0
19	12.5	10.0	11.5	3.5	3.0	3.0	.0	.0	.0	.0	.0	.0
20	13.5	11.0	12.5	4.0	3.5	3.5	.0	.0	.0	.5	.0	.5
21	14.5	12.5	13.5	4.5	3.5	4.0	.0	.0	.0	.5	.0	.0
22	12.5	11.0	11.5	4.0	3.5	3.5	.0	.0	.0	.5	.0	.5
23	11.5	10.0	10.5	3.5	3.0	3.0	.0	.0	.0	1.0	.5	.5
24	12.0	10.0	11.0	3.0	2.0	2.5	.0	.0	.0	1.5	1.0	1.5
25	11.5	10.5	11.0	2.5	1.0	1.5	.0	.0	.0	1.5	.5	1.0
26	11.5	9.5	10.5	2.0	1.0	1.5	.0	.0	.0	.5	.0	.0
27	11.5	9.5	10.5	2.5	1.0	2.0	.0	.0	.0	1.5	.0	1.0
28	12.5	11.0	11.5	3.5	2.0	2.5	.0	.0	.0	1.5	.5	1.0
29	11.5	10.0	11.0	2.5	1.5	2.5	.0	.0	.0	.5	.5	.5
30	10.0	8.5	9.5	2.0	.5	1.5	.0	.0	.0	1.0	.5	.5
31	---	---	---	---	---	---	.0	.0	.0	1.0	.0	.5
MONTH	---	---	---	---	---	---	2.5	.0	.5	1.5	.0	.0

DELAWARE RIVER BASIN

01428500 DELAWARE RIVER ABOVE LACKAWAXEN RIVER NEAR BARRYVILLE, NY--Continued

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

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

DELAWARE RIVER BASIN

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01432160 DELAWARE RIVER AT BARRYVILLE, NY

LOCATION.--Lat 41°28'31", long 74°54'46", Pike County, Pa., Hydrologic Unit 02040104, at Shohola-Barryville Bridge at Barryville, just upstream from Halfway Brook, and 1,000 ft upstream from Shohola Creek.

DRAINAGE AREA.--2,659 mi².

PERIOD OF RECORD.--Water years 1958, 1968 to current year.

CHEMICAL DATA: 1958 (d), 1969 (a), 1973 (b), 1974 (d), 1975 (b).

NUTRIENT DATA: 1973 (b), 1974 (d), 1975 (b).

Bacteria.--1973 (b), 1974 (d), 1975 (b).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1967 to September 1973, March 1975 to current year.

INSTRUMENTATION.--Water-temperature recorder since February 1994, provides 15-minute-interval readings. From March 1975 to February 1994, water-temperature digital recorder provided one-hour-interval punches. Prior to September 1973, water-temperature recorder provided continuous recordings.

REMARKS.--Unpublished records of daily temperatures for May to September 1964-66 are available in files of the Geological Survey. Temperature probe may be influenced by solar radiation during periods of low flow. Interruptions of record were due to malfunction of recording instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum (water years 1968-73, 1976-78, 1980-82, 1986-88, 1990-96), 32.0°C, July 20, 21, 1980; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 27.5°C, Aug. 22; minimum, 0.0°C on many days during winter period.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	16.0	14.0	15.0	---	---	---	3.5	1.5	2.5	.5	.0	.0
2	17.0	14.5	16.0	---	---	---	3.5	1.0	2.0	.5	.0	.0
3	17.5	15.5	16.5	12.0	10.0	11.0	2.0	.5	1.5	.5	.0	.0
4	18.0	17.0	17.5	11.5	8.0	9.5	4.0	1.5	2.5	.5	.0	.0
5	17.5	17.0	17.5	8.5	6.5	7.5	3.5	1.5	2.5	.5	.0	.0
6	18.5	16.5	17.5	7.5	5.0	6.0	3.5	2.0	2.5	1.0	.0	.0
7	18.5	16.5	17.5	7.0	5.0	5.5	2.5	1.0	2.0	.5	.0	.0
8	17.0	15.5	16.5	5.5	4.5	5.0	2.0	.0	1.0	.5	.0	.0
9	17.0	14.5	15.5	5.5	4.0	4.5	2.0	.0	.5	.5	.0	.0
10	18.0	13.5	15.0	5.0	3.5	4.5	.5	.0	.0	.5	.0	.0
11	19.0	14.0	15.5	7.5	4.5	5.5	.5	.0	.0	.5	.0	.0
12	17.0	14.0	15.5	7.5	5.0	6.5	.5	.0	.0	.0	.0	.0
13	17.0	15.0	16.0	5.5	4.0	4.5	.5	.0	.0	.0	.0	.0
14	16.0	15.0	15.5	4.5	3.5	4.0	.5	.0	.0	.0	.0	.0
15	16.0	14.0	15.0	4.5	3.5	4.0	.5	.0	.0	.5	.0	.0
16	14.0	11.5	13.0	4.5	3.0	4.0	.5	.0	.0	.5	.0	.0
17	11.5	10.0	11.0	5.0	3.5	4.0	.5	.0	.0	.5	.0	.0
18	11.5	9.5	10.5	4.5	3.5	4.0	1.0	.0	.0	.0	.0	.0
19	12.5	10.0	11.5	5.0	4.0	4.5	1.0	.0	.0	1.0	.0	.0
20	13.5	11.0	12.0	5.5	4.5	5.0	.5	.0	.0	1.0	.0	.0
21	14.5	12.0	13.5	5.5	4.5	5.0	.5	.0	.0	.5	.0	.0
22	12.5	11.0	11.5	5.0	4.0	4.5	.5	.0	.0	1.0	.0	.5
23	11.5	10.0	10.5	4.5	3.0	3.5	.5	.0	.0	1.5	.0	.5
24	12.0	10.0	11.0	3.5	2.0	2.5	.5	.0	.0	2.0	.5	1.5
25	11.5	10.5	11.0	2.5	.5	1.5	.5	.0	.0	1.5	.0	1.0
26	11.5	9.5	10.5	2.5	1.0	1.5	.5	.0	.0	1.0	.0	.5
27	11.5	9.5	10.5	3.5	1.5	2.5	.5	.0	.0	2.0	.5	1.0
28	12.5	11.0	11.5	4.5	3.0	3.5	.5	.0	.0	1.5	.5	1.0
29	11.5	10.0	11.0	4.0	2.5	3.0	.5	.0	.0	1.5	.0	1.0
30	10.0	8.5	9.5	3.5	2.0	2.5	.5	.0	.0	1.5	.5	1.0
31	---	---	---	---	---	---	.5	.0	.0	1.0	.0	.5
MONTH	---	---	---	---	---	---	4.0	.0	.5	2.0	.0	.5

DELAWARE RIVER BASIN

01432160 DELAWARE RIVER AT BARRYVILLE, NY--Continued

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

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	19.5	15.5	17.5	23.0	19.0	20.5	21.5	18.0	19.5	24.5	20.5	22.5
2	21.5	17.0	19.5	24.0	20.0	22.0	22.0	19.0	20.5	24.5	21.0	23.0
3	19.5	17.5	18.5	22.0	20.0	21.5	22.0	19.5	21.0	25.0	22.5	24.0
4	21.0	17.5	19.0	20.5	19.5	20.0	24.0	20.5	22.0	24.0	22.5	23.0
5	22.5	18.5	20.5	22.0	18.0	20.0	24.5	21.5	23.0	24.0	21.5	23.0
6	22.0	18.5	20.5	23.5	19.0	21.0	24.5	21.5	23.5	22.5	20.5	21.5
7	24.0	18.0	21.5	24.5	21.0	23.0	26.0	22.5	24.0	21.0	20.0	20.5
8	26.0	20.0	23.5	25.0	22.0	23.5	26.0	23.0	24.0	22.5	20.0	21.0
9	25.5	22.5	24.0	26.0	22.5	24.5	24.0	22.0	23.0	23.5	20.5	22.5
10	24.0	20.5	23.0	24.0	21.5	23.0	25.0	21.0	23.0	24.0	21.0	22.5
11	23.0	20.0	21.5	24.0	20.5	22.0	24.0	21.0	23.0	23.5	21.0	22.5
12	22.0	19.5	20.5	23.5	20.5	22.0	23.0	20.0	21.5	22.5	20.0	21.0
13	20.5	18.0	19.5	21.0	18.0	20.0	21.5	19.0	20.0	20.5	19.0	20.0
14	20.5	18.5	19.5	20.0	18.0	19.0	24.0	19.0	21.5	22.0	18.0	20.0
15	23.0	19.0	21.0	20.0	19.0	19.5	25.5	22.0	23.5	19.5	18.0	18.5
16	23.0	21.0	22.0	21.0	19.0	20.0	23.5	22.5	23.0	19.5	17.5	18.5
17	22.5	19.5	21.5	21.5	19.0	20.0	25.0	22.0	23.5	18.0	16.5	17.0
18	---	---	---	22.0	19.5	21.0	25.0	22.0	23.5	16.5	15.5	16.0
19	20.0	---	---	22.5	20.0	21.0	26.5	22.0	24.0	17.0	14.5	16.0
20	18.5	17.0	18.0	21.0	19.5	20.5	26.0	23.0	24.5	17.5	15.0	16.5
21	21.5	17.0	18.5	21.0	18.5	20.0	25.5	23.0	24.0	18.0	16.0	17.0
22	20.0	18.0	19.0	20.5	19.0	19.5	27.5	22.5	25.0	17.5	16.0	17.0
23	22.0	18.5	20.5	20.5	18.5	19.5	26.5	22.0	24.5	16.5	15.5	16.0
24	21.5	19.0	20.5	22.0	18.5	20.0	25.5	23.5	24.5	16.0	13.5	15.0
25	22.0	18.5	20.0	22.5	19.5	21.0	25.0	22.5	23.5	15.5	14.0	15.0
26	22.0	17.5	20.0	22.0	20.0	21.0	25.0	22.0	24.0	16.0	14.0	15.0
27	22.5	17.5	20.0	21.5	20.0	20.5	25.5	23.0	24.0	16.5	15.0	15.5
28	24.0	19.0	21.5	22.5	19.5	21.0	24.5	23.0	23.5	17.5	16.0	16.5
29	22.0	20.0	21.0	21.0	18.5	20.0	24.0	22.5	23.5	16.5	15.0	16.0
30	21.0	19.5	20.0	19.5	18.5	19.0	23.5	21.0	22.5	16.5	14.5	15.5
31	---	---	---	19.0	18.0	18.5	24.0	21.0	22.5	---	---	---
MONTH	---	---	---	26.0	18.0	21.0	27.5	18.0	23.0	25.0	13.5	19.0

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LOCATION.--Lat 41°26'20", long 74°49'11", Pike County, Pa., Hydrologic Unit 02040104, at interstate bridge at Pond Eddy, 450 ft downstream from Mill Brook, and 4.5 mi upstream from Mongaup River.

DRAINAGE AREA.--2,820 mi².

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1973 to current year.

INSTRUMENTATION.--Water-temperature recorder since August 1994, provides 15-minute-interval readings. Prior to August 1994, water-temperature digital recorder provided one-hour-interval punches.

REMARKS.--Interruptions of record were due to malfunction of recording instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum (water years 1976, 1978, 1980-81, 1983-84, 1986, 1989-90, 1992-96) 31.0°C, July 21, 1980, July 31, 1995; minimum (water years 1974, 1977-78, 1980, 1983-96), 0.0°C on many days during winter periods, except 1978, 1980, and 1985.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 28.0°C, Aug. 22; minimum, 0.0°C on many days during winter period.

DAY	MAX	MIN	MEAN		MAX	MIN	MEAN		MAX	MIN	MEAN		MAX	MIN	MEAN
	OCTOBER				NOVEMBER				DECEMBER				JANUARY		
1	18.0	14.5	16.0		---	---	---		---	---	---		---	---	---
2	19.0	15.5	16.5		---	---	---		---	---	---		---	---	---
3	19.0	16.0	17.0	11.0	10.5	11.0		---	---	---		---	---	---	---
4	18.5	17.5	18.0	11.0	8.5	10.0		---	---	---		---	---	---	---
5	18.0	17.5	18.0	8.5	7.0	7.5		---	---	---		---	---	---	---
6	20.0	17.0	18.0	7.0	5.5	6.0		---	---	---		---	---	---	---
7	18.5	17.5	18.0	6.5	5.5	6.0		---	---	---		---	---	---	---
8	18.0	16.5	17.5	5.5	5.0	5.0		---	---	---		---	---	---	---
9	18.5	15.5	16.5	5.0	4.0	4.5		---	.0	---		---	---	---	---
10	18.5	14.5	16.0	---	---	---		---	---	---		---	.0	---	---
11	19.0	15.0	16.5	---	---	---		---	---	---		---	.0	---	---
12	18.5	15.0	16.5	---	---	---		---	---	---		---	---	---	---
13	19.0	15.5	17.0	---	---	---		---	---	---		---	---	---	---
14	17.0	16.0	16.5	---	---	---		---	---	---		---	.0	---	---
15	17.0	15.0	16.0	---	---	---		---	.0	---		---	.0	---	---
16	15.0	12.5	13.5	---	---	---		.0	.0	.0		---	---	---	---
17	12.5	11.5	12.0	---	---	---		.0	.0	.0		---	.0	---	---
18	13.0	11.0	11.5	---	---	---		.0	.0	.0		---	.0	---	---
19	13.5	11.0	12.0	---	---	---		---	.0	---		---	---	---	---
20	13.5	12.0	12.5	---	---	---		---	---	---		---	---	---	---
21	15.0	13.5	14.0	---	---	---		---	---	---		---	---	---	---
22	13.5	12.0	12.5	---	---	---		---	---	---		---	---	---	---
23	12.0	11.0	11.5	---	---	---		---	---	---		---	.0	---	---
24	13.0	11.5	12.0	---	---	---		---	.0	---		---	---	---	---
25	---	---	---	---	---	---		---	---	---		---	---	---	---
26	13.0	11.0	12.0	---	---	---		---	---	---		---	.0	---	---
27	13.0	11.5	12.5	---	---	---		---	---	---		---	---	---	---
28	14.0	13.0	13.5	---	---	---		---	.0	---		---	---	---	---
29	13.5	12.0	12.5	---	---	---		---	.0	---		---	---	---	---
30	---	---	---	---	---	---		---	---	---		---	---	---	---
31	---	---	---	---	---	---		---	---	---		---	---	---	---
MONTH	---	---	---	---	---	---		---	---	---		---	---	---	---

DELAWARE RIVER BASIN

01432805 DELAWARE RIVER AT POND EDDY, NY--Continued

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

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

DELAWARE RIVER BASIN

257

01434000 DELAWARE RIVER AT PORT JERVIS, NY

LOCATION.--Lat 41°22'14", long 74°41'52", Pike County, Pa., Hydrologic Unit 02040104, on right bank 250 ft downstream from bridge (on U.S. Highways 6 and 209) between Port Jervis, N.Y. and Matamoras, Pa., 1.2 mi upstream from Neversink River, and 6.5 mi downstream from Mongaup River.

DRAINAGE AREA.--3,070 mi².

PERIOD OF RECORD.--October 1904 to current year.

REVISED RECORDS.--WSP 1031: 1905-36. WDR NY-71-1: 1970. WDR NY-82-1: Drainage area. WDR NY-86-1: 1979-80.

GAGE.--Water-stage recorder. Datum of gage is 415.35 ft above sea level. October 1904 to August 13, 1928, non-recording gage at bridge 250 ft upstream at present datum; operated by U.S. Weather Service prior to June 20, 1914.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by Lake Wallenpaupack and by Toronto, Cliff Lake, and Swinging Bridge Reservoirs (see Reservoirs in Delaware River Basin) and smaller reservoirs. Large diurnal fluctuations at medium and low flows caused by powerplants on tributary streams. Subsequent to September 1954, entire flow from 371 mi² of drainage area controlled by Pepacton Reservoir, and subsequent to October 1963, entire flow from 454 mi² of drainage area controlled by Cannonsville Reservoir (see Reservoirs in Delaware River Basin). Part of flow from these reservoirs diverted for New York City municipal supply. Remainder of flow (except for conservation releases and spill) impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master. Telephone and satellite gage-height telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 233,000 ft³/s, Aug. 19, 1955, gage height, 23.91 ft, from floodmarks in gage house, from rating curve extended above 89,000 ft³/s, on basis of slope-area measurement of peak flow; maximum gage height, 26.6 ft, Feb. 12, 1981 (ice jam), from floodmarks; minimum observed discharge, 175 ft³/s, Sept. 23, 1908, gage height, 0.6 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--The U.S. Weather Bureau reported a discharge of 205,000 ft³/s, Oct. 10, 1903, gage height, 23.1 ft, from rating curve extended above 70,000 ft³/s, by velocity-area studies; maximum gage height, 25.5 ft, Mar. 8, 1904 (ice jam).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 134,000 ft³/s, Jan. 20, gage height, 18.37 ft; minimum, 751 ft³/s, Oct. 11, gage height, 1.76 ft; minimum daily, 781 ft³/s, Oct. 11.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1380	3690	4830	1360	12100	9420	5190	21700	2150	2910	4170	1490
2	1330	3820	4270	1950	10600	8040	6150	23000	1880	3080	4400	1460
3	1430	4400	3720	2680	8980	6850	6370	18400	1850	3100	3530	1720
4	1440	4710	3970	2120	7510	6340	5360	15700	2100	3000	2830	1830
5	1890	3860	4710	2320	6720	5720	4800	14000	2010	2710	2810	1760
6	2080	3510	4660	2530	6270	5630	4040	13100	1840	3040	3570	2750
7	2060	3440	4450	2220	5710	6510	3950	13300	2090	2550	3080	2930
8	1800	3220	4190	e2300	5400	6120	4830	11900	1890	2340	2890	2530
9	1210	3590	3200	e2500	5610	5040	5250	10500	2280	2990	2960	2570
10	970	2940	2770	e2600	5520	4020	4750	10600	3530	2780	3150	2460
11	781	2830	e3000	e2400	4980	4820	4470	11400	6920	2160	1860	1720
12	1030	11100	e3400	e2500	5360	4200	3850	21800	7100	2300	1840	1610
13	1160	15700	e3100	e2300	4800	4840	5210	24000	8340	4190	2810	1680
14	1300	11800	3040	e1700	3850	5390	13000	20200	8820	10800	2390	1640
15	1820	15600	3050	e2000	3830	6540	15300	16200	6950	12300	1620	1720
16	3090	17600	3280	e3200	3860	8610	25800	13500	5120	14700	1920	1640
17	2100	13300	2590	e3000	3570	7210	33500	11700	4170	13700	1820	1970
18	1470	10600	2690	2930	2720	7180	24200	9680	4360	10800	1780	3770
19	1180	9040	3220	21600	2880	7630	18500	8390	4230	9310	1710	5970
20	1060	8320	2950	95200	3430	10300	14700	8100	4800	8140	1730	3640
21	3860	7830	3160	29200	8150	13400	12000	7810	4350	6900	1300	2620
22	29200	7340	2770	17700	13500	11600	10600	7340	3520	5740	1350	2100
23	14500	5360	1540	13100	14700	9230	10000	6640	2770	5670	2330	2470
24	7960	4820	1680	11200	15400	7580	10400	5840	2850	4840	1870	3370
25	5400	4220	1990	16700	16900	7040	10600	4770	3150	4120	2220	2900
26	4080	3810	2330	14000	14700	7220	9960	3440	2950	5340	2140	2900
27	3480	3920	3280	21800	12400	7480	8560	3030	2680	7040	2150	2740
28	4130	3930	2790	50900	11000	6920	7510	2940	2580	5220	1710	2490
29	7840	4340	2450	31500	11200	6580	7380	2830	2320	4510	2230	2670
30	5860	5900	2220	21900	---	5690	14100	2740	2030	4660	2220	3740
31	4400	---	1330	15000	---	5100	---	2270	---	4100	1570	---
TOTAL	121291	204540	96630	402410	231650	218250	310330	346820	111630	175040	73960	74860
MEAN	3913	6818	3117	12980	7988	7040	10340	11190	3721	5646	2386	2495
MAX	29200	17600	4830	95200	16900	13400	33500	24000	8820	14700	4400	5970
MIN	781	2830	1330	1360	2720	4020	3850	2270	1840	2160	1300	1460

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1996, BY WATER YEAR (WY)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
MEAN	3019	4094	4987	4770	5175	7943	9539	6109	3780	2683	2264	2437
MAX	10440	10310	12320	12980	13730	17520	23650	12670	12650	6680	4513	7928
(WY)	1978	1973	1974	1996	1976	1977	1993	1984	1972	1973	1969	1987
MIN	1001	884	1866	1216	1601	2583	2954	1890	993	699	963	1144
(WY)	1965	1965	1965	1981	1980	1981	1985	1995	1965	1965	1965	1965

e Estimated

DELAWARE RIVER BASIN

01434000 DELAWARE RIVER AT PORT JERVIS, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1964 - 1996	
ANNUAL TOTAL	1339551		2367411			
ANNUAL MEAN	3670		6468		4728	
HIGHEST ANNUAL MEAN					7216	
LOWEST ANNUAL MEAN					2028	
HIGHEST DAILY MEAN	29200	Oct 22	95200	Jan 20	95200	Jan 20 1996
LOWEST DAILY MEAN	781	Oct 11	781	Oct 11	385	Jul 6 1965
ANNUAL SEVEN-DAY MINIMUM	1180	Oct 8	1180	Oct 8	432	Jul 1 1965
10 PERCENT EXCEEDS	7690		14000		10100	
50 PERCENT EXCEEDS	2540		4060		2840	
90 PERCENT EXCEEDS	1470		1790		1490	

0143400680 EAST BRANCH NEVERSINK RIVER NORTHEAST OF DENNING, NY

LOCATION.--Lat 41°58'01", long 74°26'54", Ulster County, Hydrologic Unit 02040104, on right bank 0.3 mi upstream from Tray Mill Brook, and 2.3 mi northeast of Denning.

DRAINAGE AREA.--8.93 mi².

PERIOD OF RECORD.--October 1990 to current year. Occasional discharge measurements, water years 1988-90.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 2,140 ft above sea level, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges and those above 300 ft³/s, which are poor. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--6 years, 30.2 ft³/s, 45.93 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,030 ft³/s, Jan. 19, 1996, gage height, 6.21 ft; minimum, 2.0 ft³/s, Aug. 7, 8, 9, 1991; minimum gage height, 1.05 ft, Aug. 29, 30, 31, Sept. 1, 2, 1993.

EXTREMES 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)
Oct. 21	1445	1,650	5.70	Apr. 30	1945	575	4.30
Nov. 12	0045	1,720	5.91	July 13	1545	1,470	5.64
Jan. 19	1630	*2,030	*6.21	Sept. 18	0245	528	4.20
Jan. 27	1600	1,190	5.30				

Minimum discharge, 3.6 ft³/s, Oct. 3, 4, gage height, 1.25 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	41	22	10	e45	e42	32	165	18	19	31	10
2	3.8	103	21	10	e38	e37	36	83	17	18	28	9.6
3	3.7	77	20	e10	e32	e31	31	65	19	57	26	9.3
4	7.2	58	21	e10	e30	e32	29	57	20	49	28	8.1
5	28	46	19	e10	e31	e33	27	51	17	40	26	8.1
6	189	40	19	e9.8	e32	e28	27	54	16	29	24	7.3
7	45	45	17	e9.5	e28	e25	27	48	15	25	22	27
8	28	47	e16	e9.5	e24	e24	25	41	55	26	21	37
9	20	36	e16	e9.2	e22	e25	24	39	75	37	21	16
10	17	33	e18	e9.0	e20	e27	23	42	185	31	19	12
11	15	90	e16	e8.8	e20	e29	24	110	85	26	18	10
12	14	393	e16	e8.5	e18	e27	32	135	54	24	18	9.6
13	13	82	e20	e8.5	e18	25	68	66	47	448	17	13
14	56	64	17	e8.5	e17	22	103	53	40	148	16	19
15	102	102	16	e8.2	e17	29	63	46	33	154	17	13
16	42	62	15	e8.5	e16	28	232	45	30	151	17	11
17	30	50	14	e9.0	e15	25	115	43	30	71	15	121
18	26	44	14	e11	e15	24	69	40	31	51	14	271
19	23	40	13	e700	e15	25	69	38	33	46	13	60
20	23	37	13	173	e16	33	101	35	39	40	13	36
21	701	34	e12	65	134	26	139	34	32	33	13	28
22	179	32	e12	38	64	24	105	32	28	29	12	31
23	76	29	e11	31	60	22	138	29	27	27	12	45
24	53	27	e11	105	93	22	154	27	25	25	18	31
25	48	25	e11	85	65	26	74	25	24	39	12	30
26	37	24	e11	73	49	40	71	24	21	119	11	25
27	35	23	e11	464	43	32	68	23	20	51	12	23
28	172	28	11	152	50	29	51	22	20	39	41	59
29	71	26	11	90	46	27	149	21	19	35	16	122
30	54	23	11	57	---	27	243	20	23	34	12	51
31	46	---	11	51	---	29	---	19	---	33	11	---
TOTAL	2161.6	1761	466	2252.0	1073	875	2349	1532	1098	1954	574	1153.0
MEAN	69.7	58.7	15.0	72.6	37.0	28.2	78.3	49.4	36.6	63.0	18.5	38.4
MAX	701	393	22	700	134	42	243	165	185	448	41	271
MIN	3.7	23	11	8.2	15	22	23	19	15	18	11	7.3
CFSM	7.81	6.57	1.68	8.13	4.14	3.16	8.77	5.53	4.10	7.06	2.07	4.30
IN.	9.00	7.34	1.94	9.38	4.47	3.65	9.79	6.38	4.57	8.14	2.39	4.80

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1996, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996
MEAN	30.6	38.1	31.6	37.9	18.5	35.9
MAX	69.7	58.7	53.7	72.6	37.0	49.7
(WY)	1996	1996	1991	1996	1996	1991
MIN	12.8	15.0	15.0	15.8	11.1	23.7
(WY)	1994	1995	1996	1994	1993	1993

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1991 - 1996
ANNUAL TOTAL	9566.0	17248.6	
ANNUAL MEAN	26.2	47.1	30.2
HIGHEST ANNUAL MEAN			47.1
LOWEST ANNUAL MEAN			19.4
HIGHEST DAILY MEAN	701	701	701
LOWEST DAILY MEAN	3.4	3.7	2.1
ANNUAL SEVEN-DAY MINIMUM	3.8	8.6	2.4
ANNUAL RUNOFF (CFSM)	2.93	5.28	3.38
ANNUAL RUNOFF (INCHES)	39.85	71.85	45.93
10 PERCENT EXCEEDS	47	95	57
50 PERCENT EXCEEDS	15	28	18
90 PERCENT EXCEEDS	5.2	11	5.9

e Estimated

DELAWARE RIVER BASIN

01434017 EAST BRANCH NEVERSINK RIVER NEAR CLARYVILLE, NY

LOCATION.--Lat 41°55'31", long 74°32'26", Ulster County, Hydrologic Unit 02040104, on left bank at downstream side of bridge on Denning Road, 1.6 mi southwest of Ladleton, and 1.9 mi northeast of the village of Claryville.

DRAINAGE AREA.--22.9 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 1,740 ft above sea level, from topographic map.

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

AVERAGE DISCHARGE.--5 years, 70.1 ft³/s, 41.57 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,240 ft³/s, Jan. 19, 1996, gage height, 11.25 ft; minimum, 5.8 ft³/s, Aug. 9, 1991, Aug. 31, Sept. 1, 1993; minimum gage height, 5.33 ft, Aug. 9, 1991.

EXTREMES 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)
Oct. 21	1500	2,470	10.42	Jan. 27	1715	2,090	10.01
Nov. 12	0230	2,450	10.40	Apr. 30	2045	1,200	8.82
Jan. 19	1745	*3,240	*11.25	July 13	1645	1,920	9.81

Minimum discharge, 9.0 ft³/s, Oct. 2, 3, 4, gage height, 5.45 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	91	55	27	e100	e96	75	418	37	41	67	20
2	9.4	207	51	25	e85	e86	87	214	35	34	58	19
3	9.0	176	49	e27	e70	72	73	161	38	127	53	18
4	14	139	53	e26	e68	e70	66	138	45	91	78	18
5	35	109	48	e25	e68	e68	63	118	37	72	69	19
6	292	94	48	e25	e72	78	60	122	33	53	58	18
7	77	103	44	e25	e62	65	62	106	30	46	52	38
8	50	118	e41	e25	e54	60	58	91	103	49	46	67
9	36	87	e39	e24	e50	e58	54	84	186	64	48	32
10	31	76	e43	e24	e47	e66	52	96	322	59	45	24
11	27	94	e38	e24	e46	e66	53	217	190	45	40	21
12	25	856	e38	e24	e42	e62	68	323	107	41	38	20
13	23	218	e47	e24	e41	e58	161	169	88	708	37	21
14	92	163	e40	e23	e40	55	256	128	77	346	34	31
15	195	240	e42	e23	e39	79	151	109	62	404	34	23
16	84	158	e39	e23	e38	75	545	109	54	440	36	21
17	60	126	e36	e23	e37	e60	290	103	55	200	32	117
18	51	110	e34	e26	e35	62	171	93	62	131	29	403
19	45	100	e32	e1200	e34	67	149	87	67	114	28	98
20	41	91	e31	496	e37	116	177	78	83	97	27	56
21	1170	86	e29	192	e190	79	223	78	67	77	26	43
22	399	79	e31	124	e180	67	176	72	55	67	24	46
23	173	72	e29	96	e180	60	199	64	50	63	23	76
24	122	65	e29	283	252	57	271	59	46	58	41	50
25	112	61	e28	261	176	65	146	54	46	99	27	52
26	87	58	e27	176	128	103	132	51	41	297	23	43
27	79	55	e27	835	109	81	129	49	38	122	21	39
28	404	67	e27	e350	128	71	100	47	38	87	53	90
29	175	66	e27	210	112	66	290	44	35	76	30	256
30	123	57	e32	147	---	65	548	42	50	73	23	102
31	103	---	35	112	---	68	---	39	---	72	21	---
TOTAL	4153.1	4022	1169	4925	2520	2201	4885	3563	2177	4253	1221	1881
MEAN	134	134	37.7	159	86.9	71.0	163	115	72.6	137	39.4	62.7
MAX	1170	856	55	1200	252	116	548	418	322	708	78	403
MIN	9.0	55	27	23	34	55	52	39	30	34	21	18
CFSM	5.85	5.85	1.65	6.94	3.79	3.10	7.11	5.02	3.17	5.99	1.72	2.74
IN.	6.75	6.53	1.90	8.00	4.09	3.58	7.94	5.79	3.54	6.91	1.98	3.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1996, BY WATER YEAR (WY)

MEAN	55.7	86.3	68.2	94.4	45.9	81.3	177	65.9	50.8	42.4	30.5	30.1
MAX	134	134	86.9	159	86.9	102	301	115	98.4	137	59.5	62.7
(WY)	1996	1996	1994	1996	1996	1995	1993	1996	1992	1996	1994	1996
MIN	29.2	36.9	37.7	34.0	29.6	60.6	55.2	36.0	24.4	9.71	8.86	11.4
(WY)	1994	1995	1996	1994	1993	1993	1995	1995	1993	1991	1993	1991

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1991 - 1996	
ANNUAL TOTAL	22085.8		36970.1		70.1	
ANNUAL MEAN	60.5		101		101	
HIGHEST ANNUAL MEAN					47.7	
LOWEST ANNUAL MEAN					1995	
HIGHEST DAILY MEAN	1170	Oct 21	1200	Jan 19	1200	Jan 19 1996
LOWEST DAILY MEAN	8.4	Sep 6	9.0	Oct 3	5.9	Sep 1 1993
ANNUAL SEVEN-DAY MINIMUM	8.9	Sep 2	19	Aug 31	6.3	Aug 27 1993
ANNUAL RUNOFF (CFSM)	2.64		4.41		3.06	
ANNUAL RUNOFF (INCHES)	35.88		60.06		41.61	
10 PERCENT EXCEEDS	114		199		133	
50 PERCENT EXCEEDS	37		62		40	
90 PERCENT EXCEEDS	13		25		14	

e Estimated

DELAWARE RIVER BASIN

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01434021 WEST BRANCH NEVERSINK RIVER AT WINNISOOK LAKE NEAR FROST VALLEY, NY

LOCATION.--Lat 42°00'40", long 74°24'53", Ulster County, Hydrologic Unit 02040104, on right bank 0.1 mi southwest of Winnisook Lake, and 4.5 mi northeast of Frost Valley.

DRAINAGE AREA.--0.77 mi².

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

REVISED RECORDS.--WDR NY-94-1: 1992-93(P).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 2,680 ft above sea level, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges and those above 60 ft³/s, which are poor.

Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--5 years, 2.49 ft³/s, 43.91 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 136 ft³/s, Oct. 21, Nov. 11, 1995, gage height, 2.64 ft; maximum gage height, 2.74 ft, Mar. 29, 1993 (ice jam); minimum discharge, 0.05 ft³/s, Aug. 6, 7, 8, 1991, gage height, 0.93 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 35 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 21	1345	*136	*2.64	Apr. 23	2300	43	1.70
Nov. 11	2400	*136	*2.64	Apr. 30	1900	73	1.90
Jan. 19	1615	130	2.54	July 13	1515	133	2.59
Jan. 27	1545	93	2.07	Sept. 18	0115	80	1.96

Minimum discharge, 0.31 ft³/s, Oct. 1, 2, 3, 4, gage height, 1.05 ft; minimum gage height, 1.04 ft, Jan. 12.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.35	2.7	1.7	.70	e2.7	e2.3	1.6	17	1.0	.95	1.7	.62
2	.34	5.7	1.5	.70	e2.4	2.0	1.7	8.9	1.0	.91	1.6	.58
3	.31	6.5	1.6	e.65	e2.2	1.8	1.5	6.8	1.0	2.4	1.5	.58
4	.88	5.3	1.6	e.62	e2.0	e1.6	1.4	6.0	1.0	3.8	1.5	.58
5	3.3	4.1	1.4	e.60	e1.8	e1.7	1.3	5.3	.95	3.0	1.4	.58
6	14	3.1	e1.3	e.58	e1.6	1.4	1.3	5.4	.87	2.0	1.4	.58
7	4.2	2.8	e1.2	e.57	e1.4	1.3	1.2	4.6	.87	1.7	1.3	1.2
8	2.5	2.4	e1.1	e.56	e1.2	1.2	e1.1	3.8	2.3	1.6	1.2	1.6
9	1.6	2.0	e1.1	e.55	e1.1	e1.1	e1.1	3.4	7.6	1.5	1.3	1.2
10	1.2	1.8	e1.1	e.54	e1.0	e1.1	1.1	4.3	17	1.4	1.2	1.0
11	1.2	11	e1.0	e.53	e.98	e.95	1.1	13	7.9	1.3	1.1	.92
12	1.2	36	e1.0	e.51	e.98	e1.0	1.5	17	3.7	1.2	1.0	.87
13	1.1	7.1	e1.0	e.50	e.92	1.1	4.7	8.1	2.6	38	1.0	1.0
14	5.9	5.3	e1.2	e.49	e.88	1.1	13	5.5	2.1	12	1.0	1.2
15	9.1	8.5	e1.2	e.48	e.85	1.2	6.4	4.3	1.8	13	.99	1.0
16	3.8	5.8	e1.1	e.50	e.82	1.2	19	3.3	1.6	13	.97	.96
17	2.3	4.5	e.98	e.57	e.80	1.1	11	2.9	1.5	6.1	.93	17
18	1.6	3.9	e.92	e1.4	e.75	1.2	5.7	2.6	1.4	4.0	.87	34
19	1.3	3.7	e.88	e65	e.72	1.2	6.1	2.5	1.5	3.3	.86	7.8
20	1.3	3.2	e.85	11	e.82	1.3	15	2.2	1.5	2.9	.84	3.7
21	68	2.9	e.82	4.0	e.70	1.2	20	2.1	1.4	2.5	.82	2.5
22	12	2.5	e.80	2.5	5.7	1.1	15	1.9	1.3	2.2	.78	2.2
23	5.7	2.2	e.78	1.9	5.3	1.0	23	1.7	1.2	1.9	.79	2.8
24	4.2	2.0	e.75	7.4	9.2	e.95	18	1.6	1.2	1.8	1.0	2.3
25	3.4	1.8	e.75	7.6	5.7	e1.0	8.5	1.5	1.2	2.0	.76	2.0
26	2.7	1.8	e.72	3.8	3.4	e1.0	11	1.4	1.1	6.1	.72	1.7
27	2.6	1.9	e.72	34	2.7	1.5	9.9	1.4	1.0	3.3	1.3	1.6
28	14	2.3	e.70	11	2.8	1.5	6.2	1.2	1.0	2.5	2.2	6.9
29	6.6	2.0	e.70	5.3	2.5	1.2	13	1.2	.96	2.1	.89	17
30	4.7	1.7	e.70	3.6	---	1.3	30	1.1	1.0	1.9	.71	6.0
31	3.7	---	.75	2.9	---	1.4	---	1.1	---	1.8	.64	---
TOTAL	185.08	146.5	31.92	171.05	63.92	40.00	251.4	143.1	70.55	142.16	34.27	121.97
MEAN	5.97	4.88	1.03	5.52	2.20	1.29	8.38	4.62	2.35	4.59	1.11	4.07
MAX	68	36	1.7	65	9.2	2.3	30	17	17	38	2.2	34
MIN	.31	1.7	.70	.48	.70	.95	1.1	1.1	.87	.91	.64	.58
CFSM	7.75	6.34	1.34	7.17	2.86	1.68	10.9	5.99	3.05	5.96	1.44	5.28
IN.	8.94	7.08	1.54	8.26	3.09	1.93	12.15	6.91	3.41	6.87	1.66	5.89

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1996, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996
MEAN	2.59	3.10	1.79	2.87	1.08	2.74
MAX	5.97	4.88	2.50	5.52	2.20	4.09
(WY)	1996	1996	1995	1996	1996	1993
MIN	1.02	1.17	1.03	1.11	.51	1.29
(WY)	1994	1995	1996	1994	1992	1996

e Estimated

DELAWARE RIVER BASIN

01434021 WEST BRANCH NEVERSINK RIVER AT WINNISOOK LAKE NEAR FROST VALLEY, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1991 - 1996
ANNUAL TOTAL	750.59	1401.92	
ANNUAL MEAN	2.06	3.83	2.49
HIGHEST ANNUAL MEAN			3.83 1996
LOWEST ANNUAL MEAN			1.47 1995
HIGHEST DAILY MEAN	68 Oct 21	68 Oct 21	68 Oct 21 1995
LOWEST DAILY MEAN	.16 Sep 6	.31 Oct 3	.07 Jul 29 1991
ANNUAL SEVEN-DAY MINIMUM	.18 Sep 2	.51 Jan 10	.08 Aug 2 1991
ANNUAL RUNOFF (CFSM)	2.67	4.97	3.23
ANNUAL RUNOFF (INCHES)	36.26	67.73	43.88
10 PERCENT EXCEEDS	4.1	8.6	5.3
50 PERCENT EXCEEDS	1.0	1.5	1.1
90 PERCENT EXCEEDS	.29	.74	.30

01434025 BISCUIT BROOK ABOVE PIGEON BROOK AT FROST VALLEY, NY

(Hydrologic bench-mark station)

(National trends network station)

LOCATION.--Lat 41°59'43", long 74°30'05", Ulster County, Hydrologic Unit 02040104, on right bank 0.2 mi upstream from Pigeon Brook, 0.6 mi upstream from mouth, and 0.8 mi northeast of Frost Valley. Water-quality sampling site at discharge station.

DRAINAGE AREA.--3.72 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1983 to current year. February to May 1983 (occasional discharge measurements).

REVISED RECORDS.--WDR NY-91-1: Drainage area. WDR NY-94-1: 1984(P), 1985(M), 1987(P), 1989(P), 1993(P).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 2,060 ft above sea level, from topographic map. Prior to Sept. 11, 1987, at datum 1.00 ft higher.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. Also published as a chemical-quality-of-precipitation site (National trends network station number 00336840).

AVERAGE DISCHARGE.--13 years, 10.5 ft³/s, 38.22 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 815 ft³/s, Apr. 4, 1987, gage height, 4.37 ft, present datum; minimum discharge, 0.24 ft³/s, Sept. 2, 3, 1991, gage height, 0.75 ft; minimum recorded gage height, 0.67 ft, on several days during August and September 1996.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 21	1430	281	3.28	Jan. 19	1645	a*400	b*3.78
Nov. 12	0045	261	3.22	Jan. 27	1545	366	3.52

a About.

b Ice jam.

Minimum discharge, 0.52 ft³/s, Oct. 1, 2, 3; minimum recorded gage height, 0.67 ft, on several days during August and September.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.54	13	e7.2	e2.7	e11	18	11	61	2.7	3.0	8.0	1.3
2	.55	35	e6.8	e2.7	e9.5	11	13	31	2.4	2.1	6.4	e1.2
3	.56	31	e6.2	e2.7	e8.0	7.9	10	24	3.1	8.3	5.8	e1.1
4	3.1	22	e7.0	e2.6	e7.5	e9.5	8.7	19	5.2	16	13	e1.1
5	8.5	17	e6.5	e2.5	e7.0	e8.6	8.0	15	3.9	11	12	e1.1
6	32	14	e6.2	e2.5	e6.2	e7.8	7.6	16	2.8	6.0	11	e1.1
7	8.1	15	e6.0	e2.5	e6.0	e6.8	7.7	13	2.4	4.7	7.5	3.4
8	4.9	14	e5.5	e2.4	e5.5	e6.2	6.8	11	27	4.0	6.4	5.6
9	3.4	11	e5.1	e2.4	4.6	e11	6.3	10	38	4.7	6.7	2.3
10	2.8	9.8	e6.0	e2.4	3.8	8.0	5.8	13	32	4.2	5.9	1.5
11	2.5	25	e5.1	e2.4	e3.8	5.0	6.3	32	23	3.3	5.0	e1.3
12	2.3	109	e5.0	e2.4	e3.5	5.1	8.9	41	14	3.0	4.7	e1.2
13	2.0	34	e6.0	e2.4	e3.2	4.8	32	25	10	86	4.4	e1.1
14	13	25	e5.2	e2.4	e2.9	5.9	51	18	8.3	44	3.9	e1.2
15	27	31	e5.4	e2.4	e2.7	8.7	28	15	6.9	39	4.2	e1.1
16	10	22	e5.1	e2.3	e2.4	7.4	108	13	5.9	50	4.3	e1.1
17	7.2	18	e4.6	e2.5	e2.2	6.6	42	12	5.4	25	3.5	11
18	6.0	16	e4.2	e8.0	e2.0	7.0	26	11	5.3	17	2.8	52
19	5.3	15	e3.8	e240	e1.9	7.7	23	10	7.5	18	2.3	15
20	5.0	13	e3.5	79	14	12	29	8.7	7.3	15	2.2	8.3
21	147	e12	e3.2	26	e160	7.6	32	8.5	5.7	10	2.0	6.2
22	57	e11	e3.2	13	47	6.4	23	7.3	4.8	8.1	e1.6	8.9
23	23	e10	e3.0	9.0	30	5.7	23	6.4	4.2	7.5	e1.5	14
24	16	e9.2	e2.9	42	43	5.6	31	5.8	3.6	6.5	4.7	8.8
25	13	e8.5	e2.9	33	28	8.3	20	5.1	3.6	9.1	1.9	8.9
26	11	e7.8	e2.9	25	19	17	16	4.6	2.9	31	e1.4	7.1
27	11	e7.5	e2.9	147	16	11	13	4.4	2.5	14	6.1	6.5
28	83	e8.5	e2.7	56	20	9.1	11	4.0	2.9	10	8.2	15
29	30	e8.8	e2.8	36	16	7.9	42	3.7	2.3	8.8	2.7	32
30	19	e7.5	e2.8	e16	---	7.8	78	3.4	5.1	8.5	1.8	17
31	15	---	e2.7	e13	---	9.3	---	3.0	---	8.8	1.5	---
TOTAL	569.75	580.6	142.4	785.2	486.7	260.7	728.1	454.9	250.7	486.6	153.4	237.4
MEAN	18.4	19.4	4.59	25.3	16.8	8.41	24.3	14.7	8.36	15.7	4.95	7.91
MAX	147	109	7.2	240	160	18	108	61	38	86	13	52
MIN	.54	7.5	2.7	2.3	1.9	4.8	5.8	3.0	2.3	2.1	1.4	1.1
CFSM	4.94	5.20	1.23	6.81	4.51	2.26	6.52	3.94	2.25	4.22	1.33	2.13
IN.	5.70	5.81	1.42	7.85	4.87	2.61	7.28	4.55	2.51	4.87	1.53	2.37

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

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
MEAN	8.21	13.4	11.6	9.90	9.52	16.1	23.2	13.4	5.83	4.60	3.90	5.18		
MAX	18.4	20.8	23.8	25.3	28.3	30.3	54.3	33.1	11.3	15.7	9.31	17.4		
(WY)	1996	1993	1991	1996	1984	1986	1993	1989	1992	1996	1990	1987		
MIN	1.00	3.24	4.43	2.65	2.26	8.41	8.83	4.57	1.82	.74	.65	.86		
(WY)	1985	1985	1990	1989	1987	1996	1995	1995	1991	1991	1993	1983		

e Estimated

DELAWARE RIVER BASIN

01434025 BISCUIT BROOK ABOVE PIGEON BROOK AT FROST VALLEY, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1983 - 1996	
ANNUAL TOTAL	3245.31		5136.45			
ANNUAL MEAN	8.89		14.0		10.5	
HIGHEST ANNUAL MEAN					14.0 1996	
LOWEST ANNUAL MEAN					6.76 1985	
HIGHEST DAILY MEAN	147	Oct 21	240	Jan 19	431	Apr 4 1987
LOWEST DAILY MEAN	.34	Sep 6	.54	Oct 1	.27	Sep 3 1991
ANNUAL SEVEN-DAY MINIMUM	.38	Sep 2	1.2	Aug 31	.31	Sep 7 1991
ANNUAL RUNOFF (CFSM)	2.39		3.77		2.81	
ANNUAL RUNOFF (INCHES)	32.45		51.36		38.18	
10 PERCENT EXCEEDS	19		31		20	
50 PERCENT EXCEEDS	5.0		7.5		5.8	
90 PERCENT EXCEEDS	.68		2.4		1.6	

DELAWARE RIVER BASIN

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01434025 BISCUIT BROOK ABOVE PIGEON BROOK, AT FROST VALLEY, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1983 to September 1987, November 1992 to current year.

CHEMICAL DATA: 1983-87 (e), 1993-95 (b), 1996 (a).

MINOR ELEMENTS DATA, 1983-87 (e), 1993-95 (b), 1996 (a).

RADIOCHEMICAL DATA: 1993-95 (a).

ORGANIC DATA: 1983-87 (e).

NUTRIENT DATA: 1983-87 (e), 1993-95 (b), 1996 (a).

BIOLOGICAL DATA:

Bacteria--1993-95 (b), 1996 (a).

SEDIMENT DATA: 1993-95 (b), 1996 (a).

REMARKS.--All anion and cation analysis were performed on water samples which passed through a 0.1-micrometer membrane filter. Also published as a chemical-quality-of-precipitation site (National trends network station number 00336840).

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	
OCT 24...	1225	16	25	4.97	--	9.5	0.30	725	10.3	95	K2	
SEP **09...	1100	--	--	--	--	--	--	--	--	--	--	
09...	1155	2.3	19	6.20	19.0	9.5	0.30	721	8.60	80	18	
DATE		STREP-TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
OCT 24...	K1	8	5	2.3	0.52	0.30	0.20	1	1	1	4.3	
SEP **09...	--	0	--	0.01	0.00	<0.03	--	--	--	--	--	
09...	150	8	6	2.2	0.50	0.40	0.20	1	2	0	4.8	
DATE		CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 24...	0.80	<0.10	2.2	21	13	0.190	<0.01	0.190	0.19	<0.015	<0.2	
SEP **09...	--	--	<0.02	--	--	--	0.002	--	<0.005	<0.002	--	
09...	0.60	<0.10	2.4	17	13	0.200	<0.01	0.200	0.20	<0.015	<0.2	
DATE		PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
OCT 24...	<0.01	<0.01	<0.01	100	48	--	--	--	<3	--	7	
SEP **09...	--	--	<0.001	<0.30	<0.20	<0.20	<0.30	<0.20	<0.20	<0.20	<3.0	
09...	0.01	<0.01	<0.01	39	45	--	--	--	<3.0	--	<3.0	

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

** Quality assurance sample - field blank

DELAWARE RIVER BASIN

01434025 BISCUIT BROOK ABOVE PIGEON BROOK, AT FROST VALLEY, NY--Continued

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

DATE	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
OCT 24...	--	<4	10	<10	2	<1	<1.0	11	<6	--
SEP **09...	<0.30	--	0.31	<0.20	<0.50	--	<0.20	<0.10	--	4.7
09...	--	<4	2.0	<10	1.0	<1	<1.0	11	<6	--

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 24...	1225	16	2	0.09	57
SEP 09...	1155	2.3	0	0.0	--

** Quality assurance sample - field blank

DELAWARE RIVER BASIN

267

01434072 SOUTH SHELTER CREEK SOUTH OF FROST VALLEY, NY

LOCATION.--Lat 41°58'20", long 74°30'31", Ulster County, Hydrologic Unit 02040104, 0.1 mi upstream from mouth, and 1.1 mi south of Frost Valley.

DRAINAGE AREA.--0.31 mi².

PERIOD OF RECORD.--April 1993 to September 1994. Occasional miscellaneous measurements 1992, 1993.

GAGE.--Water-stage recorder, H-flume, and crest-stage gage. Elevation of gage is 2,360 ft above sea level, from topographic map.

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

AVERAGE DISCHARGE.--1 year, 0.48 ft³/s, 21.03 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17 ft³/s, Apr. 16, 1994, gage height, 2.39 ft; minimum, no flow, part or all of several days during July to Sept. 1993, part or all of each day Oct. 1, 7-11, 1993.

EXTREMES FOR CURRENT YEAR.--April to September 1993: Maximum discharge, 4.4 ft³/s, June 21, gage height, 1.31 ft; minimum, no flow, part or all of several days during July to September.

Water year 1994: Maximum discharge, 17 ft³/s, Apr. 16, gage height, 2.39 ft; minimum, no flow, part or all of each day Oct. 1, 7-11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	.32	.092	.004	.000	.000
2	---	---	---	---	---	---	---	.27	.046	.007	.000	.000
3	---	---	---	---	---	---	---	.23	.036	.027	.000	.052
4	---	---	---	---	---	---	---	.19	.031	.005	.000	.069
5	---	---	---	---	---	---	---	.32	.063	.002	.000	.000
6	---	---	---	---	---	---	---	.25	.093	.002	.000	.000
7	---	---	---	---	---	---	---	.16	.037	.002	.003	.000
8	---	---	---	---	---	---	---	.16	.033	.001	.006	.003
9	---	---	---	---	---	---	---	.14	.069	.001	.000	.004
10	---	---	---	---	---	---	---	.13	.043	.000	.000	.046
11	---	---	---	---	---	---	---	.12	.025	.000	.000	.003
12	---	---	---	---	---	---	---	.11	.021	.002	.000	.000
13	---	---	---	---	---	---	---	.10	.020	.000	.000	.000
14	---	---	---	---	---	---	---	.093	.018	.000	.000	.000
15	---	---	---	---	---	---	---	.086	.019	.000	.000	.000
16	---	---	---	---	---	---	---	.089	.019	.000	.000	.000
17	---	---	---	---	---	---	---	.067	.015	.000	.004	.11
18	---	---	---	---	---	---	---	.074	.010	.000	.001	.016
19	---	---	---	---	---	---	---	.086	.010	.016	.000	.000
20	---	---	---	---	---	---	---	.25	.047	.004	.000	.000
21	---	---	---	---	---	---	---	.10	.38	.000	.000	.034
22	---	---	---	---	---	---	---	.064	.077	.000	.000	.048
23	---	---	---	---	---	---	---	.052	.022	.000	.000	.006
24	---	---	---	---	---	---	---	.055	.012	.000	.000	.010
25	---	---	---	---	---	---	---	.050	.010	.000	.000	.000
26	---	---	---	---	---	---	---	.046	.015	.000	.000	.34
27	---	---	---	---	---	---	---	.044	.015	.023	.000	e.050
28	---	---	---	---	---	---	---	.046	.016	e.002	.000	e.013
29	---	---	---	---	---	---	---	.046	.010	.000	.000	e.004
30	---	---	---	---	---	---	.38	.037	.007	.007	.000	e.000
31	---	---	---	---	---	---	---	.15	---	.000	.000	---
TOTAL	---	---	---	---	---	---	---	3.935	1.311	0.105	0.014	0.808
MEAN	---	---	---	---	---	---	---	.13	.044	.003	.000	.027
MAX	---	---	---	---	---	---	---	.32	.38	.027	.006	.34
MIN	---	---	---	---	---	---	---	.037	.007	.000	.000	.000
CFSM	---	---	---	---	---	---	---	.41	.14	.01	.00	.09
IN.	---	---	---	---	---	---	---	.47	.16	.01	.00	.10

e Estimated

DELAWARE RIVER BASIN

01434072 SOUTH SHELTER CREEK SOUTH OF FROST VALLEY, NY--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.000	.75	e.72	.14	e.24	.24	.71	1.0	.11	.31	.30	.22
2	e.001	.44	.56	.13	e.25	.22	.73	.65	.091	.31	.26	.16
3	.077	.45	.53	.13	.22	.22	.94	.54	.081	.32	.24	.14
4	.014	.47	.67	.12	.20	.21	1.1	.43	.073	.29	.22	.12
5	.004	.70	1.7	e.12	e.19	.21	1.2	.39	.068	.29	.23	.10
6	.001	.61	.88	e.115	e.18	.19	1.9	.38	.079	.24	.17	.087
7	.000	.51	.69	e.11	e.17	.21	3.6	.34	.15	.28	.14	.081
8	.000	.49	.56	e.11	e.17	e.25	2.2	.52	.081	.22	.12	.072
9	.000	.47	.47	e.105	e.16	.27	1.8	.42	.074	.15	.10	.066
10	.000	.44	.66	e.105	e.16	1.5	2.9	.39	.071	.12	.084	.056
11	e.000	.42	.68	e.10	e.15	.67	2.6	.37	.071	.096	.074	.052
12	.31	.39	.42	e.098	e.16	.57	2.1	.38	.27	.087	.069	.052
13	.12	.40	.39	e.094	e.17	.55	4.7	.35	.11	.073	.14	.048
14	.041	.94	.41	e.090	e.16	.54	4.6	.34	.40	.081	.39	.048
15	.088	.67	.39	e.086	e.15	e.52	4.7	.32	.14	.14	.11	.044
16	.045	.49	.36	e.082	e.15	e.48	7.5	.50	.085	.11	.068	.046
17	.041	.78	.33	e.080	e.16	e.45	3.5	.35	.077	.12	.21	.040
18	.11	.84	.32	e.079	e.17	e.42	2.2	.28	.068	.15	.76	.072
19	.075	.79	.32	e.076	e.21	.42	2.0	.26	.064	.16	.36	.032
20	.29	.72	.30	e.074	e.35	.39	1.9	e.32	.063	.40	.33	.030
21	.63	.61	e.50	e.073	.62	.37	1.7	.28	.091	.27	.96	.030
22	.44	.57	.37	e.070	.39	.38	1.5	.25	.070	.99	1.4	.030
23	.46	.51	.27	e.068	.34	.50	1.3	.23	.055	.69	1.0	.12
24	.47	.43	.22	e.064	.36	.70	1.2	.20	.067	.41	.78	.035
25	.45	.38	.22	e.061	.32	.83	1.1	.26	.23	.47	.66	.030
26	.41	.34	.21	e.060	.30	.59	1.1	.25	.085	.62	.56	.048
27	.40	.33	.19	e.060	.29	.81	1.0	.19	.13	.41	.47	.96
28	.35	e3.5	.18	e1.5	.27	1.1	.89	.16	.38	.47	.44	.58
29	.30	e2.1	.17	e.50	---	.87	.81	.14	.37	.32	.37	.38
30	.54	e1.2	.15	e.35	---	.76	.75	.11	.32	.33	.28	.31
31	.70	---	.15	e.25	---	.70	---	.11	---	.30	.27	---
TOTAL	6.367	21.74	13.99	5.100	6.66	16.14	64.23	10.71	4.024	9.227	11.565	4.089
MEAN	.21	.72	.45	.16	.24	.52	2.14	.35	.13	.30	.37	.14
MAX	.70	3.5	1.7	1.5	.62	1.5	7.5	1.0	.40	.99	1.4	.96
MIN	.000	.33	.15	.060	.15	.19	.71	.11	.055	.073	.068	.030
CFSM	.66	2.34	1.46	.53	.77	1.68	6.91	1.11	.43	.96	1.20	.44
IN.	.76	2.61	1.68	.61	.80	1.94	7.71	1.29	.48	1.11	1.39	.49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1994, BY WATER YEAR (WY)

	1993	1994	1993	1994	1993	1994	1993	1994	1993	1994	1993	1994
MEAN	.21	.72	.45	.16	.24	.52	2.14	.24	.089	.15	.19	.082
MAX	.21	.72	.45	.16	.24	.52	2.14	.35	.13	.30	.37	.14
(WY)	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994
MIN	.21	.72	.45	.16	.24	.52	2.14	.13	.044	.003	.000	.027
(WY)	1994	1994	1994	1994	1994	1994	1994	1993	1993	1993	1993	1993

SUMMARY STATISTICS

FOR 1994 WATER YEAR

WATER YEARS 1993 - 1994

ANNUAL TOTAL	173.842		
ANNUAL MEAN	.48		
HIGHEST ANNUAL MEAN	.48		1994
LOWEST ANNUAL MEAN	.48		1994
HIGHEST DAILY MEAN	7.5	Apr 16	1994
LOWEST DAILY MEAN	.000	Oct 1	1993
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 5	1993
ANNUAL RUNOFF (CFSM)	1.54		
ANNUAL RUNOFF (INCHES)	20.86		
10 PERCENT EXCEEDS	.96		
50 PERCENT EXCEEDS	.29		
90 PERCENT EXCEEDS	.07		

e Estimated

DELAWARE RIVER BASIN

269

01434073 NORTH SHELTER CREEK NEAR FROST VALLEY, NY

LOCATION.--Lat 41°58'22", long 74°30'22", Ulster County, Hydrologic Unit 02040104, on right bank 0.2 mi upstream from mouth, and 1.0 mi south of Frost Valley.

DRAINAGE AREA.--0.24 mi².

PERIOD OF RECORD.--May 1993 to September 1994. Occasional miscellaneous measurements 1992, 1993.

GAGE.--Water-stage recorder, H-flume, and crest-stage gage. Elevation of gage is 2,420 ft above sea level, from topographic map. Prior to September 30, 1993, at site 50 ft upstream at same datum.

REMARKS.--Records poor. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--1 year, 0.58 ft³/s, 32.82 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18 ft³/s, Nov. 28, 1993, gage height, 2.41 ft; minimum, 0.001 ft³/s, Aug. 29, 31, 1993; minimum gage height, 0.06 ft, Sept. 25, 1993.

EXTREMES FOR CURRENT YEAR.--May to September 1993: Maximum discharge, 5.5 ft³/s, June 21, gage height, 1.05 ft; minimum, 0.001 ft³/s, Aug. 29, 31; minimum gage height, 0.06 ft, Sept. 25.

Water year 1994: Maximum discharge, 18 ft³/s, Nov. 28, gage height, 2.41 ft; minimum, 0.030 ft³/s, Oct. 1, gage height, 0.09 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	.84	.29	.12	.044	.010
2	---	---	---	---	---	---	---	.72	.20	.13	.052	.012
3	---	---	---	---	---	---	---	.63	.18	.20	.042	.078
4	---	---	---	---	---	---	---	.57	.17	.12	.038	.072
5	---	---	---	---	---	---	---	.79	.23	.099	.032	.012
6	---	---	---	---	---	---	---	.69	.26	.094	.030	.006
7	---	---	---	---	---	---	---	.51	.20	.082	.070	.006
8	---	---	---	---	---	---	---	.47	.19	.077	.052	.023
9	---	---	---	---	---	---	---	.44	.25	.076	.035	.020
10	---	---	---	---	---	---	---	.41	.20	.069	.028	.058
11	---	---	---	---	---	---	---	.41	.20	.065	.029	.017
12	---	---	---	---	---	---	---	.41	.19	.088	.038	.009
13	---	---	---	---	---	---	---	.39	.18	.082	.029	.006
14	---	---	---	---	---	---	---	.36	.17	.074	.024	.005
15	---	---	---	---	---	---	---	.35	.17	.073	.021	.012
16	---	---	---	---	---	---	---	.35	.17	.068	.031	e.012
17	---	---	---	---	---	---	---	.32	.16	.068	.052	e.051
18	---	---	---	---	---	---	---	.34	.17	.066	.036	e.017
19	---	---	---	---	---	---	---	.37	.17	.12	e.028	e.010
20	---	---	---	---	---	---	---	.67	.24	.088	.032	e.007
21	---	---	---	---	---	---	---	.40	.68	.067	.027	.067
22	---	---	---	---	---	---	---	.31	.34	.063	.022	.066
23	---	---	---	---	---	---	---	.28	.20	.058	.020	.038
24	---	---	---	---	---	---	---	.28	.18	.048	.023	.031
25	---	---	---	---	---	---	---	.27	.16	.045	.036	.019
26	---	---	---	---	---	---	---	.24	.18	.055	.014	.27
27	---	---	---	---	---	---	---	.23	.17	.11	.013	.14
28	---	---	---	---	---	---	---	.23	.17	.070	.013	.14
29	---	---	---	---	---	---	---	.24	.15	.054	.010	.039
30	---	---	---	---	---	---	---	.22	.14	.076	.009	.034
31	---	---	---	---	---	---	---	.42	---	.055	.008	---
TOTAL	---	---	---	---	---	---	---	13.16	6.36	2.560	0.938	1.287
MEAN	---	---	---	---	---	---	---	.42	.21	.083	.030	.043
MAX	---	---	---	---	---	---	---	.84	.68	.20	.070	.27
MIN	---	---	---	---	---	---	---	.22	.14	.045	.008	.005
CFSM	---	---	---	---	---	---	---	1.77	.88	.34	.13	.18
IN.	---	---	---	---	---	---	---	2.04	.99	.40	.15	.20

e Estimated

DELAWARE RIVER BASIN

01434073 NORTH SHELTER CREEK NEAR FROST VALLEY, NY--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.033	.93	1.0	.27	e.38	.37	.95	.92	.18	.41	.34	.23
2	.047	.55	.85	.27	e.35	.34	1.0	.53	.14	.34	.29	.19
3	.11	.48	.83	.27	e.32	.36	1.4	.49	.12	.34	.25	.18
4	.062	.47	.96	.27	e.29	.29	1.8	.48	.12	.33	.24	.17
5	.064	.76	2.6	e.22	e.28	.25	1.9	.45	.12	.32	.25	.16
6	.068	.73	1.3	.25	.28	.21	2.9	.38	.13	.30	.20	.14
7	.070	.59	1.1	.25	.28	.20	4.5	.33	.21	.37	.17	.14
8	.075	.56	.91	.24	.29	e.29	2.2	.43	.13	.28	.16	.13
9	.080	.53	.78	.24	.29	.26	2.0	.34	.11	.21	.15	.14
10	.072	.50	.93	.24	.31	e1.5	3.8	.33	.10	.17	.14	.14
11	.094	.47	1.1	e.20	.31	.77	2.9	.33	.11	.15	.14	.16
12	.40	.43	.83	.24	e.23	.59	2.3	.35	.33	.12	.13	.17
13	.24	.42	.77	.24	e.21	.60	5.7	.29	.17	.13	.21	.15
14	.14	.95	.56	.24	e.22	.60	4.4	.31	.52	.15	.37	.14
15	.20	.81	e.50	.24	e.24	.58	4.1	.33	.24	.17	.16	.13
16	.17	.56	e.45	.22	e.26	.54	5.9	.52	.20	.14	.13	.12
17	.18	.78	.40	.22	e.29	.50	2.9	.39	.24	.13	.27	.12
18	.27	.94	.38	.22	.33	.45	1.8	.36	.21	.15	1.5	.15
19	.22	.82	.34	.22	.36	.44	1.5	.33	.21	.14	.57	.092
20	.45	.75	.32	e.17	.49	.42	1.3	e.33	.21	.33	.39	.084
21	.91	.60	e.50	e.16	.93	.42	1.2	.33	.26	.15	1.1	.083
22	.68	.55	e.43	e.16	.67	.44	1.0	.32	.17	.59	1.9	.091
23	.55	.51	e.37	e.15	.51	.59	.90	.30	.14	.58	1.2	.20
24	.53	.48	e.34	e.15	.52	.96	.86	.28	.18	.21	.88	.11
25	.51	.40	.33	e.14	.42	1.4	.87	.32	.31	.22	.73	.11
26	.47	.35	.32	e.15	.39	.97	.89	.30	.14	.68	.59	.13
27	.44	.34	.30	e.18	.41	1.1	.92	.24	.21	.59	.47	2.4
28	.40	7.1	.29	e1.4	.42	1.6	.82	.18	.65	.66	.43	.92
29	.35	2.3	.29	e1.0	---	1.2	.70	.17	.58	.44	.36	.49
30	.53	1.4	.28	e.60	---	.93	.66	.16	.51	.40	.28	e.37
31	.78	---	.27	e.65	---	.86	---	.17	---	.35	.26	---
TOTAL	9.195	27.06	20.63	9.47	10.28	20.03	64.07	10.99	6.95	9.55	14.26	7.840
MEAN	.30	.90	.67	.31	.37	.65	2.14	.35	.23	.31	.46	.26
MAX	.91	7.1	2.6	1.4	.93	1.6	5.9	.92	.65	.68	1.9	2.4
MIN	.033	.34	.27	.14	.21	.20	.66	.16	.10	.12	.13	.083
CFSM	1.24	3.76	2.77	1.27	1.53	2.69	8.90	1.48	.97	1.28	1.92	1.09
IN.	1.43	4.19	3.20	1.47	1.59	3.10	9.93	1.70	1.08	1.48	2.21	1.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1994, BY WATER YEAR (WY)

	MEAN	.30	.90	.67	.31	.37	.65	2.14	.39	.22	.20	.25	.15
MAX	.30	.90	.67	.31	.37	.65	2.14	.42	.23	.31	.46	.26	
(WY)	1994	1994	1994	1994	1994	1994	1994	1994	1993	1994	1994	1994	1994
MIN	.30	.90	.67	.31	.37	.65	2.14	.35	.21	.083	.030	.043	
(WY)	1994	1994	1994	1994	1994	1994	1994	1994	1993	1993	1993	1993	

SUMMARY STATISTICS

FOR 1994 WATER YEAR

WATER YEARS 1993 - 1994

ANNUAL TOTAL	210.325		
ANNUAL MEAN	.58	.58	
HIGHEST ANNUAL MEAN		.58	1994
LOWEST ANNUAL MEAN		.58	1994
HIGHEST DAILY MEAN	7.1	Nov 28	1993
LOWEST DAILY MEAN	.033	Oct 1	
ANNUAL SEVEN-DAY MINIMUM	.06	Oct 1	
ANNUAL RUNOFF (CFSM)	2.40		
ANNUAL RUNOFF (INCHES)	32.60		
10 PERCENT EXCEEDS	1.1		
50 PERCENT EXCEEDS	.34		
90 PERCENT EXCEEDS	.14		

e Estimated

DELAWARE RIVER BASIN

271

01434076 SHELTER CREEK SOUTH OF FROST VALLEY, NY

LOCATION.--Lat 41°58'18", long 74°30'36", Ulster County, Hydrologic Unit 02040104, on left bank about 200 ft downstream from confluence of North and South Shelter Creeks, and 1.1 mi south of Frost Valley.

DRAINAGE AREA.--0.40 mi².

PERIOD OF RECORD.--October 1993 to September 1995. Occasional miscellaneous measurements 1992, 1993.

GAGE.--Water-stage recorder, broad-crested weir, and crest-stage gage. Elevation of gage is 2,320 ft above sea level, from topographic map.

REMARKS.--Records poor. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--2 years, 1.04 ft³/s, 35.31 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54 ft³/s, Nov. 28, 1993, gage height, 2.20 ft; minimum, 0.015 ft³/s, on several days during August 1995; minimum gage height, 1.03 ft, Sept. 6, 7, 1995.

EXTREMES FOR CURRENT YEAR.--**Water year 1994:** Maximum discharge, 54 ft³/s, Nov. 28, gage height, 2.20 ft; minimum recorded discharge, 0.081 ft³/s, Oct. 8, 9, gage height, 1.05 ft, but may have been less during period of estimated record.

Water year 1995: Maximum recorded discharge, 14 ft³/s, Mar. 8, gage height, 1.68 ft, but may have been higher during period of estimated record; minimum discharge, 0.015 ft³/s, on several days during August; minimum gage height, 1.03 ft, Sept. 6, 7.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.12	1.8	2.1	.63	.81	.74	1.8	e1.7	.41	.96	.88	.69
2	e.12	1.2	1.7	.58	e.75	.68	1.9	e1.6	.36	.81	.81	.57
3	e.13	1.2	1.7	.56	e.72	e.65	2.4	e1.5	.35	.79	.67	e.53
4	e.12	1.2	1.9	.55	.69	e.63	2.8	e1.4	.30	.75	.66	e.47
5	e.11	1.7	5.3	.50	e.67	e.62	3.0	e1.3	.27	.72	.70	e.42
6	e.11	1.6	3.0	.50	.63	.64	4.2	e1.2	.30	.66	.56	e.37
7	e.10	1.4	2.5	.47	e.59	.73	7.5	e1.1	.49	.83	.48	e.34
8	e.10	1.3	2.3	e.45	e.56	e.93	4.2	e1.2	.30	.71	.43	e.32
9	.098	1.3	1.8	.44	.59	.85	4.0	e1.1	.28	.58	.40	e.30
10	.11	1.2	2.2	.40	.56	3.1	6.7	e1.0	.25	.49	.37	e.29
11	.11	e1.1	2.5	.39	e.46	1.9	5.6	e1.0	.25	.43	.35	e.27
12	.63	e.96	1.6	e.38	e.47	1.5	5.0	e.96	.91	.38	.34	e.28
13	.39	e.90	1.3	e.37	e.47	e1.4	12	e.90	.49	.37	.53	e.29
14	.22	e1.1	e1.3	e.36	e.45	e1.3	8.7	.81	1.3	.40	1.1	e.27
15	.33	e1.3	e1.2	.34	.46	e1.3	8.0	.81	.61	.50	.52	.25
16	.25	e1.2	e1.1	e.33	.44	e1.2	13	1.5	.35	.37	.40	.27
17	.21	e1.4	1.1	e.32	.44	e1.1	5.3	1.0	.34	.32	.75	.28
18	.34	e1.6	1.0	.31	.51	e1.0	3.8	.93	.32	.36	3.0	.34
19	.27	e1.8	1.0	.29	.61	.98	3.3	.92	.27	.32	1.3	.22
20	.68	e1.6	e.94	.29	.88	.82	2.9	.88	.22	.77	.93	.20
21	1.3	e1.5	e.98	e.28	1.6	.85	2.8	.86	.38	.49	2.0	.20
22	e1.5	e1.4	e1.0	e.27	1.2	1.0	2.6	.79	.32	1.7	3.1	.21
23	e1.0	e1.3	.93	e.26	1.1	1.3	2.4	.75	.23	1.5	2.3	.57
24	e.88	.93	e.89	.26	e1.0	1.7	2.1	.68	.32	.63	1.7	.28
25	e.82	.83	.88	.25	e.98	2.3	2.1	.80	.73	.67	1.5	.24
26	e.80	.82	e.83	.25	.95	1.9	2.1	.82	.30	1.5	1.3	.31
27	.79	.82	e.78	.29	e.85	2.0	2.1	.69	.50	1.3	1.1	4.2
28	.72	19	e.72	2.8	e.78	2.5	e1.8	.55	1.5	1.4	1.1	1.9
29	.66	5.5	.69	2.0	---	2.1	e1.7	.53	1.3	1.0	.95	1.1
30	1.0	3.2	.66	1.1	---	1.8	e1.5	.47	1.1	1.0	.81	.88
31	1.4	---	.63	e1.2	---	1.7	---	.41	---	.90	.79	---
TOTAL	15.418	62.16	46.53	17.42	20.22	41.22	127.3	30.16	15.05	23.61	31.83	16.86
MEAN	.50	2.07	1.50	.56	.72	1.33	4.24	.97	.50	.76	1.03	.56
MAX	1.5	19	5.3	2.8	1.6	3.1	13	1.7	1.5	1.7	3.1	4.2
MIN	.098	.82	.63	.25	.44	.62	1.5	.41	.22	.32	.34	.20
CFSM	1.24	5.18	3.75	1.40	1.81	3.32	10.6	2.43	1.25	1.90	2.57	1.40
IN.	1.43	5.78	4.33	1.62	1.88	3.83	11.84	2.80	1.40	2.20	2.96	1.57

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

MEAN	.50	2.07	1.50	.56	.72	1.33	4.24	.97	.50	.76	1.03	.56
MAX	.50	2.07	1.50	.56	.72	1.33	4.24	.97	.50	.76	1.03	.56
(WY)	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994
MIN	.50	2.07	1.50	.56	.72	1.33	4.24	.97	.50	.76	1.03	.56
(WY)	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994

SUMMARY STATISTICS

FOR 1994 WATER YEAR

ANNUAL TOTAL	447.778
ANNUAL MEAN	1.23
HIGHEST DAILY MEAN	19 Nov 28
LOWEST DAILY MEAN	.098 Oct 9
ANNUAL SEVEN-DAY MINIMUM	.11 Oct 5
ANNUAL RUNOFF (CFSM)	3.07
ANNUAL RUNOFF (INCHES)	41.64
10 PERCENT EXCEEDS	2.3
50 PERCENT EXCEEDS	.81
90 PERCENT EXCEEDS	.28

e Estimated

DELAWARE RIVER BASIN

01434076 SHELTER CREEK SOUTH OF FROST VALLEY, 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	1.2	1.3	1.7	2.3	e.80	.78	.93	1.0	.53	.18	.086	.15
2	1.1	.79	1.5	1.7	e.72	e.51	.88	.81	.63	.15	.16	.13
3	.92	.74	1.5	1.4	e.68	e.46	.82	.75	1.4	.12	.11	.12
4	.82	.73	1.4	e1.2	e.62	e.43	.97	.68	.73	.12	.15	.11
5	.79	.71	3.7	e1.0	e.58	.44	.69	.76	.61	.13	.38	.10
6	.75	.75	2.8	e.90	e.56	.47	.69	.61	.56	.17	.19	.097
7	.71	.75	2.4	e1.7	e.53	.68	.61	.56	.52	.36	.10	.085
8	.68	.71	1.9	e1.3	e.51	e6.0	.53	.52	.54	.18	.081	.097
9	.74	.76	1.7	e1.2	e.49	e5.0	.82	.50	.51	.15	.071	.19
10	.72	1.0	1.6	e1.0	e.47	4.5	.91	.62	.50	.13	.075	.14
11	.61	.79	2.1	e.90	e.46	2.7	.74	.59	.51	.32	.081	.11
12	.56	.79	1.5	e1.1	e.45	2.4	.94	.54	.96	.18	.083	.096
13	.54	.78	1.3	2.0	.44	2.8	1.8	.49	.58	.12	.068	.30
14	.50	.76	1.3	2.3	.44	3.4	1.1	.44	.51	.11	.066	.14
15	.50	.78	1.2	3.6	.45	3.8	.99	.50	.44	.10	.075	.11
16	.45	.62	1.1	3.9	.76	3.4	.96	.43	.39	.11	.29	.10
17	.44	.52	1.0	3.2	.46	2.9	.89	.45	.33	.54	.063	.51
18	.44	.76	.99	2.6	.44	2.3	.89	.43	.29	.30	.035	.14
19	.43	.72	.88	2.3	.45	2.0	2.2	.47	.26	.12	.032	.11
20	.43	.63	.80	4.0	.46	1.8	1.5	.40	.26	.11	.029	.11
21	.42	1.3	.79	3.4	.44	1.9	1.6	.39	.23	.11	.026	.12
22	.39	1.2	.79	2.7	.39	1.7	1.5	.38	.27	.097	.027	.96
23	.44	.86	.79	2.3	.39	1.5	1.4	.36	.22	.17	.028	.30
24	.44	.79	3.8	2.0	.43	1.4	1.3	.40	.18	.14	.022	.14
25	.42	.76	2.7	1.8	.42	1.2	1.2	.47	.24	.13	.025	.12
26	.39	.71	2.0	1.7	.37	1.3	1.1	.48	.30	.84	.027	.21
27	.39	.66	1.9	1.4	.34	1.2	1.1	.39	.27	.60	.026	.16
28	.36	4.7	1.7	e1.2	1.5	1.1	1.1	.36	.17	.30	.024	.12
29	.34	3.0	e1.6	e1.0	---	1.0	.95	1.1	.15	.16	.024	.11
30	.38	2.1	e1.5	e.92	---	1.1	.88	1.0	.15	.11	.023	.099
31	.39	---	e1.3	e.85	---	1.0	---	.56	---	.10	.042	---
TOTAL	17.69	31.47	51.24	58.87	15.05	61.17	31.99	17.44	13.24	6.457	2.519	5.284
MEAN	.57	1.05	1.65	1.90	.54	1.97	1.07	.56	.44	.21	.081	.18
MAX	1.2	4.7	3.8	4.0	1.5	6.0	2.2	1.1	1.4	.84	.38	.96
MIN	.34	.52	.79	.85	.34	.43	.53	.36	.15	.097	.022	.085
CFSM	1.43	2.62	4.13	4.75	1.34	4.93	2.67	1.41	1.10	.52	.20	.44
IN.	1.65	2.93	4.77	5.47	1.40	5.69	2.98	1.62	1.23	.60	.23	.49

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

MEAN	.53	1.56	1.58	1.23	.63	1.65	2.65	.77	.47	.48	.55	.37
MAX	.57	2.07	1.65	1.90	.72	1.97	4.24	.97	.50	.76	1.03	.56
(WY)	1995	1994	1995	1995	1994	1995	1994	1994	1994	1994	1994	1994
MIN	.50	1.05	1.50	.56	.54	1.33	1.07	.56	.44	.21	.081	.18
(WY)	1994	1995	1994	1994	1995	1994	1995	1995	1995	1995	1995	1995

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1994 - 1995
ANNUAL TOTAL	424.07	312.420	
ANNUAL MEAN	1.16	.86	1.04
HIGHEST ANNUAL MEAN			1.23
LOWEST ANNUAL MEAN			.86
HIGHEST DAILY MEAN	13	Apr 16	6.0 Mar 8
LOWEST DAILY MEAN	.20	Sep 20	.022 Aug 24
ANNUAL SEVEN-DAY MINIMUM	.25	Sep 16	.02 Aug 24
ANNUAL RUNOFF (CFSM)	2.90		2.14
ANNUAL RUNOFF (INCHES)	39.44		29.06
10 PERCENT EXCEEDS	2.2		1.9
50 PERCENT EXCEEDS	.76		.58
90 PERCENT EXCEEDS	.31		.11

e Estimated

DELAWARE RIVER BASIN

273

01434080 DRY CREEK ABOVE SEEP ZONE NEAR FROST VALLEY, NY

LOCATION.--Lat 41°58'04", long 74°30'43", Ulster County, Hydrologic Unit 02040104, on right bank just above seep zone, about 1,300 ft upstream from mouth, and 1.3 mi south of Frost Valley.

DRAINAGE AREA.--0.10 mi².

PERIOD OF RECORD.--July 1993 to September 1995. Occasional miscellaneous measurements 1992, 1993.

GAGE.--Water-stage recorder, V-notch sharp-crested weir, and crest-stage gage. Elevation of gage is 2,370 ft above sea level, from topographic map.

REMARKS.--Records poor. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--2 years, 0.084 ft³/s, 11.41 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10 ft³/s, Nov. 28, 1993, gage height, 1.98 ft; minimum, no flow, part or all of many days during July to Oct. 1993, part of June 23, 1994, part or all of several days during July 1994, Sept. to Nov. 1994, July to Sept. 1995.

EXTREMES FOR CURRENT YEAR.--July to September 1993: Maximum discharge, .022 ft³/s, Sept. 3, 26, gage height, 0.71 ft; minimum, no flow, part or all of many days during July to September.

Water year 1994: Maximum discharge, 10 ft³/s, Nov. 28, gage height, 1.98 ft; minimum, no flow, part or all of each day Oct. 1-12, 19, June 23, July 9-14, 16-21, Sept. 18-20.

Water year 1995: Maximum discharge, 4.2 ft³/s, Mar. 8, gage height, 1.57 ft; minimum, no flow, part or all of several days during Oct. to Nov., July to Sept.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	e.001	.000	.000
2	---	---	---	---	---	---	---	---	---	e.001	.000	.000
3	---	---	---	---	---	---	---	---	---	e.002	.000	.002
4	---	---	---	---	---	---	---	---	---	e.001	.000	.004
5	---	---	---	---	---	---	---	---	---	e.000	.000	.000
6	---	---	---	---	---	---	---	---	---	e.000	.000	.000
7	---	---	---	---	---	---	---	---	---	e.000	.001	.000
8	---	---	---	---	---	---	---	---	---	e.000	.000	.000
9	---	---	---	---	---	---	---	---	---	e.000	.000	.000
10	---	---	---	---	---	---	---	---	---	.000	.000	.001
11	---	---	---	---	---	---	---	---	---	.000	.000	.000
12	---	---	---	---	---	---	---	---	---	.001	.000	.000
13	---	---	---	---	---	---	---	---	---	.000	.000	.000
14	---	---	---	---	---	---	---	---	---	.000	.000	.000
15	---	---	---	---	---	---	---	---	---	.000	.000	.000
16	---	---	---	---	---	---	---	---	---	.000	.000	.000
17	---	---	---	---	---	---	---	---	---	.000	.000	.001
18	---	---	---	---	---	---	---	---	---	.000	.000	.000
19	---	---	---	---	---	---	---	---	---	.001	.000	.000
20	---	---	---	---	---	---	---	---	---	.000	.000	.000
21	---	---	---	---	---	---	---	---	---	.000	.000	.000
22	---	---	---	---	---	---	---	---	---	.000	.000	.000
23	---	---	---	---	---	---	---	---	---	.000	.000	.000
24	---	---	---	---	---	---	---	---	---	.000	.000	.000
25	---	---	---	---	---	---	---	---	---	.000	.000	.000
26	---	---	---	---	---	---	---	---	---	.000	.000	.004
27	---	---	---	---	---	---	---	---	---	.000	.000	.002
28	---	---	---	---	---	---	---	---	---	.000	.000	.001
29	---	---	---	---	---	---	---	---	---	.000	.000	.000
30	---	---	---	---	---	---	---	---	---	.000	.000	.000
31	---	---	---	---	---	---	---	---	---	.000	.000	---
TOTAL	---	---	---	---	---	---	---	---	---	0.007	0.001	0.015
MEAN	---	---	---	---	---	---	---	---	---	.000	.000	.000
MAX	---	---	---	---	---	---	---	---	---	.002	.001	.004
MIN	---	---	---	---	---	---	---	---	---	.000	.000	.000
CFSM	---	---	---	---	---	---	---	---	---	.00	.00	.00
IN.	---	---	---	---	---	---	---	---	---	.00	.00	.01

e Estimated

DELAWARE RIVER BASIN

01434080 DRY CREEK ABOVE SEEP ZONE NEAR FROST VALLEY, NY--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.000	.18	.20	.027	e.029	e.013	.14	.074	.009	.003	.009	.019
2	.000	.10	.15	.025	e.025	e.012	.14	.087	.008	.002	.009	.014
3	.000	.080	.14	.022	e.022	e.012	.22	.045	.009	.002	.011	.013
4	.000	.078	.17	e.016	e.020	e.011	.38	.042	.007	.002	.009	.011
5	.000	.15	.73	e.014	e.018	e.013	.48	.038	.007	.003	.011	.009
6	.000	.15	.36	e.012	e.017	.014	1.0	.037	.006	.003	.008	.009
7	.000	.10	.21	e.009	.017	.017	2.1	.033	.006	.003	.007	.008
8	.000	.080	.16	e.007	e.014	e.024	.70	.047	.003	.005	.007	.007
9	.000	.068	.13	e.007	e.013	.025	.55	.035	.003	e.001	.007	.008
10	.000	.057	.16	e.007	e.012	.32	1.5	.032	.002	.000	.005	.006
11	.000	.048	.24	e.006	e.012	.22	1.0	.032	.002	.000	.004	.004
12	.004	.041	.14	e.006	e.011	.13	.75	.033	.007	.001	.004	.004
13	.001	.037	.11	e.006	e.011	.11	2.5	.028	.003	.000	.006	.005
14	.002	.11	.099	e.005	e.010	.094	2.0	.027	.007	.001	.009	.005
15	.002	.13	.088	e.005	.010	e.058	1.8	.025	.002	.001	.003	.003
16	.001	.078	.074	e.004	e.010	e.048	2.8	.039	.002	.001	.002	.004
17	.001	.11	.062	e.004	e.010	e.043	1.0	.027	.001	.000	.006	.006
18	.002	.17	.052	e.004	.011	e.040	.52	.027	.002	.000	.047	.003
19	.001	.15	.046	e.004	.012	e.036	.38	.027	.002	.001	.028	.001
20	.005	.14	.039	e.004	.015	e.038	.29	.023	.001	.004	.018	.001
21	.032	.098	.087	e.004	.037	.040	.22	.022	.002	.001	.11	.001
22	.069	.084	.076	e.004	e.037	.042	.17	.018	.001	.006	.41	.002
23	.060	.075	.057	e.004	e.030	.047	.13	.014	.001	.004	.26	.006
24	.059	.067	.051	e.003	e.028	.087	.10	.013	.002	.002	.12	.004
25	.060	.051	.047	e.003	e.026	.25	.083	.013	.003	.003	.079	.003
26	.078	.045	e.034	.003	e.023	.19	.070	.012	.001	.010	.057	.004
27	.070	.046	e.032	.003	e.021	.22	.068	.011	.003	.006	.042	.40
28	.068	3.2	e.031	e.070	e.019	.38	.056	.010	.007	.007	.036	.27
29	.064	.79	e.028	e.050	---	.28	.051	.008	.004	.006	.031	.066
30	.080	.31	e.028	e.043	---	.19	.046	.007	.003	.007	.024	.032
31	.15	---	.027	e.033	---	.14	---	.008	---	.007	.022	---
TOTAL	0.809	6.823	3.858	0.414	0.520	3.144	21.244	0.894	0.116	0.092	1.401	0.928
MEAN	.026	.23	.12	.013	.019	.10	.71	.029	.004	.003	.045	.031
MAX	.15	3.2	.73	.070	.037	.38	2.8	.087	.009	.010	.41	.40
MIN	.000	.037	.027	.003	.010	.011	.046	.007	.001	.000	.002	.001
CFSM	.26	2.27	1.24	.13	.19	1.01	7.08	.29	.04	.03	.45	.31
IN.	.30	2.54	1.44	.15	.19	1.17	7.90	.33	.04	.03	.52	.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1994, BY WATER YEAR (WY)

MEAN	.026	.23	.12	.013	.019	.10	.71	.029	.004	.002	.023	.016
MAX	.026	.23	.12	.013	.019	.10	.71	.029	.004	.003	.045	.031
(WY)	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994
MIN	.026	.23	.12	.013	.019	.10	.71	.029	.004	.000	.000	.000
(WY)	1994	1994	1994	1994	1994	1994	1994	1994	1994	1993	1993	1993

SUMMARY STATISTICS

FOR 1994 WATER YEAR

WATER YEARS 1993 - 1994

ANNUAL TOTAL	40.243	
ANNUAL MEAN	.11	.11
HIGHEST ANNUAL MEAN		.11 1994
LOWEST ANNUAL MEAN		.11 1994
HIGHEST DAILY MEAN	3.2 Nov 28	3.2 Nov 28 1993
LOWEST DAILY MEAN	.000 Oct 1	.000 Jul 5 1993
ANNUAL SEVEN-DAY MINIMUM	.00 Oct 1	.00 Jul 5 1993
INSTANTANEOUS PEAK FLOW	8.0 Nov 28	8.0 Nov 28 1993
INSTANTANEOUS PEAK STAGE	1.98 Nov 28	1.98 Nov 28 1993
INSTANTANEOUS LOW FLOW	.00 Aug 29	.00 Aug 29 1993
ANNUAL RUNOFF (CFSM)	1.10	1.10
ANNUAL RUNOFF (INCHES)	14.97	14.98
10 PERCENT EXCEEDS	.20	.15
50 PERCENT EXCEEDS	.02	.01
90 PERCENT EXCEEDS	.00	.00

e Estimated

DELAWARE RIVER BASIN

275

01434080 DRY CREEK ABOVE SEEP ZONE NEAR FROST VALLEY, 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	.067	.015	.15	.17	.039	e.003	.032	.033	.006	.003	.000	.000
2	.10	.004	.099	.12	.028	e.004	.027	.027	.009	.002	.002	.000
3	.049	.003	.086	.081	.016	e.004	.026	.023	.015	.002	.001	.000
4	.038	.004	.085	.068	e.010	e.004	.029	.022	.012	.002	.001	.000
5	.028	.004	.53	.050	e.009	.005	.024	.022	.012	.003	.005	.000
6	.023	.004	.40	.049	.009	.005	.022	.018	.014	.002	.002	.000
7	.023	.003	.25	.17	.008	.007	.018	.014	.014	.003	.001	.000
8	.024	.003	.15	.098	e.006	.88	.017	.012	.013	.002	.001	.000
9	.023	.003	.12	.083	e.006	.91	.024	.013	.012	.001	.000	.000
10	.021	.001	.11	.065	e.006	.28	.024	.015	.012	.001	.001	.000
11	.017	.001	.18	.061	e.004	.16	.022	.010	.010	.002	.001	.000
12	.015	.001	.098	.075	.003	.11	.031	.009	.017	.002	.001	.000
13	.015	.001	.079	.15	.002	.13	.096	.008	.010	.001	.000	.002
14	.015	.001	.076	.20	e.002	.28	.080	.006	.010	.001	.000	.001
15	.010	.001	.055	.52	e.002	.76	.075	.006	.009	.001	.001	.000
16	.005	.000	.044	.82	e.002	.61	.068	.006	.008	.001	.003	.000
17	.006	.000	.047	.46	e.002	.35	.060	.005	.007	.005	.000	.005
18	.007	.001	.044	.29	e.002	.21	.054	.004	.007	.003	.000	.001
19	.011	.000	.032	.17	e.002	.15	.16	.004	.006	.001	.000	.000
20	.010	.000	.026	.72	e.002	.12	.10	.003	.005	.001	.000	.000
21	.007	.008	.023	.78	e.003	.14	.099	.003	.005	.001	.000	.000
22	.004	.005	.023	.42	e.004	.13	.098	.003	.005	.001	.000	.002
23	.003	.001	.023	.21	e.004	.095	.079	.003	.004	.001	.000	.000
24	.003	.001	.52	.15	e.004	.074	.068	.005	.003	.001	.000	.000
25	.001	.002	.51	.12	e.003	.059	.061	.005	.004	.001	.000	.000
26	.001	.002	.23	.088	e.003	.052	.053	.004	.005	.008	.000	.000
27	.000	.003	.17	.068	e.003	.043	.045	.003	.005	.005	.000	.000
28	.000	.49	.14	.048	e.004	.038	.041	.003	.003	.002	.000	.000
29	.000	.51	.091	.045	---	.038	.036	.010	.003	.001	.000	.000
30	.001	.23	.060	.038	---	.041	.032	.006	.002	.001	.000	.000
31	.001	---	.068	.040	---	.037	---	.006	---	.001	.000	---
TOTAL	0.528	1.302	4.519	6.427	0.188	5.729	1.601	0.311	0.247	0.062	0.020	0.011
MEAN	.017	.043	.15	.21	.007	.18	.053	.010	.008	.002	.001	.000
MAX	.10	.51	.53	.82	.039	.91	.16	.033	.017	.008	.005	.005
MIN	.000	.000	.023	.038	.002	.003	.017	.003	.002	.001	.000	.000
CFSM	.17	.43	1.46	2.07	.07	1.85	.53	.10	.08	.02	.01	.00
IN.	.20	.48	1.68	2.39	.07	2.13	.60	.12	.09	.02	.01	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1995, BY WATER YEAR (WY)

	MEAN	.022	.14	.14	.11	.013	.14	.38	.019	.006	.002	.015	.011
MAX	.026	.23	.15	.21	.019	.18	.71	.029	.008	.003	.045	.031	
(WY)	1994	1994	1995	1995	1994	1995	1994	1994	1995	1995	1994	1994	1994
MIN	.017	.043	.12	.013	.007	.10	.053	.010	.004	.000	.000	.000	
(WY)	1995	1995	1994	1994	1995	1994	1995	1995	1994	1994	1993	1993	1995

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1993 - 1995

ANNUAL TOTAL	35.102	20.945	
ANNUAL MEAN	.096	.057	.084
HIGHEST ANNUAL MEAN			.11 1994
LOWEST ANNUAL MEAN			.057 1995
HIGHEST DAILY MEAN	2.8 Apr 16	.91 Mar 9	3.2 Nov 28 1993
LOWEST DAILY MEAN	.000 Jul 10	.000 Oct 27	.000 Jul 5 1993
ANNUAL SEVEN-DAY MINIMUM	.00 Nov 14	.00 Aug 17	.00 Jul 5 1993
INSTANTANEOUS PEAK FLOW		3.2 Mar 8	8.0 Nov 28 1993
INSTANTANEOUS PEAK STAGE		1.58 Mar 8	1.98 Nov 28 1993
INSTANTANEOUS LOW FLOW			.00 Aug 29 1993
ANNUAL RUNOFF (CFSM)	.96	.57	.84
ANNUAL RUNOFF (INCHES)	13.06	7.79	11.39
10 PERCENT EXCEEDS	.22	.15	.15
50 PERCENT EXCEEDS	.01	.01	.01
90 PERCENT EXCEEDS	.00	.00	.00

e Estimated

DELAWARE RIVER BASIN

01434084 WEST DRY CREEK NEAR FROST VALLEY, NY

LOCATION.--Lat 41°58'05", long 74°30'45", Ulster County, Hydrologic Unit 02040104, 177 ft upstream from mouth, and 1.3 mi south of Frost Valley.

DRAINAGE AREA.--0.12 mi².

PERIOD OF RECORD.--October 1993 to September 1995. Occasional miscellaneous measurements 1993.

GAGE.--Water-stage recorder, V-notch sharp-crested weir, and crest-stage gage. Elevation of gage is 2,360 ft above sea level, from topographic map. Prior to Aug. 15, 1995, at site 65 ft downstream, at different datum.

REMARKS.--Records poor. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--2 years, 0.012 ft³/s, 1.36 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4.9 ft³/s, Apr. 16, 1994, gage height, 1.92 ft, site and datum then in use; minimum, no flow, part or all of many days during water years 1994-95.

EXTREMES FOR CURRENT YEAR.--**Water year 1994:** Maximum discharge, 4.9 ft³/s, Apr. 16, gage height, 1.92 ft, site and datum then in use; minimum, no flow, part or all of many days during water year.

Water year 1995: Maximum discharge, 0.58 ft³/s, Mar. 15, gage height, 1.23 ft, site and datum then in use; minimum, no flow, part or all of many days during water year.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.000	.000	.000	.000	e.000	e.000	.000	.000	.000	.000	.000	.000
2	e.000	.000	.000	.000	e.000	e.000	.000	.000	.000	.000	.000	.000
3	e.000	.000	.000	.000	e.000	e.000	.005	.000	.000	.000	.000	.000
4	e.000	.000	.009	.000	e.000	e.000	.022	.000	.000	.000	.000	.000
5	e.000	.000	.22	.000	e.000	e.000	.014	.000	.000	.000	.000	.000
6	e.000	.000	.016	.000	e.000	e.000	.12	.000	.000	.000	.000	.000
7	e.000	.000	.000	.000	e.000	e.000	.43	.000	.000	.000	.000	.000
8	.000	.000	.000	.000	e.000	e.000	.11	.000	.000	.000	.000	.000
9	.000	.000	.000	.000	e.000	e.003	.048	.000	.000	.000	.000	.000
10	.000	.000	.008	.000	e.000	e.15	.32	.000	.000	.000	.000	.000
11	.000	.000	.049	.000	e.000	e.015	.15	.000	.000	.000	.000	.000
12	.000	.000	.000	.000	e.000	e.001	.11	.000	.000	.000	.000	.000
13	.000	.000	.000	.000	e.000	e.000	.65	.000	.000	.000	.000	.000
14	.000	.000	.000	.000	e.000	e.000	.66	.000	.000	.000	.000	.000
15	.000	.000	.000	.000	e.000	e.000	.74	.000	.000	.000	.000	.000
16	.000	.000	.000	.000	e.000	.000	1.6	.000	.000	.000	.000	.000
17	.000	.001	.000	.000	e.000	.000	.41	.000	.000	.000	.000	.000
18	.000	.001	.000	.000	e.000	.000	.12	.000	.000	.000	.000	.000
19	.000	.000	.000	.000	e.000	.000	.051	.000	.000	.000	.000	.000
20	.000	.000	.000	.000	e.000	.000	.015	.000	.000	.000	.000	.000
21	.000	.000	.010	.000	e.000	.000	.002	.000	.000	.000	.000	.000
22	.000	.000	.000	.000	e.000	.000	.000	.000	.000	.000	.007	.000
23	.000	.000	.000	.000	e.000	.000	.000	.000	.000	.000	.000	.000
24	.000	.000	.000	e.000	e.000	.000	.000	.000	.000	.000	.000	.000
25	.000	.000	.000	e.000	e.000	.000	.000	.000	.000	.000	.000	.000
26	.000	.000	.000	e.000	e.000	.000	.000	.000	.000	.000	.000	.000
27	.000	.000	.000	e.002	e.000	.000	.000	.000	.000	.000	.000	.059
28	.000	1.4	.000	e.080	e.000	.007	.000	.000	.000	.000	.000	.015
29	.000	.25	.000	e.010	---	.001	.000	.000	.000	.000	.000	.000
30	.000	.033	.000	e.001	---	.000	.000	.000	.000	.000	.000	.000
31	.000	---	.000	e.000	---	.000	---	.000	---	.000	.000	---
TOTAL	0.000	1.685	0.312	0.093	0.000	0.177	5.577	0.000	0.000	0.000	0.007	0.074
MEAN	.000	.056	.010	.003	.000	.006	.19	.000	.000	.000	.000	.002
MAX	.000	1.4	.22	.080	.000	.15	1.6	.000	.000	.000	.007	.059
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
CFSM	.00	.47	.08	.02	.00	.05	1.55	.00	.00	.00	.00	.02
IN.	.00	.52	.10	.03	.00	.05	1.73	.00	.00	.00	.00	.02

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

MEAN	.000	.056	.010	.003	.000	.006	.19	.000	.000	.000	.000	.002
MAX	.000	.056	.010	.003	.000	.006	.19	.000	.000	.000	.000	.002
(WY)	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994
MIN	.000	.056	.010	.003	.000	.006	.19	.000	.000	.000	.000	.002
(WY)	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994

SUMMARY STATISTICS

FOR 1994 WATER YEAR

ANNUAL TOTAL	7.925
ANNUAL MEAN	.022
HIGHEST DAILY MEAN	1.6 Apr 16
LOWEST DAILY MEAN	.000 Oct 1
ANNUAL SEVEN-DAY MINIMUM	.00 Oct 1
ANNUAL RUNOFF (CFSM)	.18
ANNUAL RUNOFF (INCHES)	2.46
10 PERCENT EXCEEDS	.00
50 PERCENT EXCEEDS	.00
90 PERCENT EXCEEDS	.00

e Estimated

DELAWARE RIVER BASIN

277

01434084 WEST DRY CREEK NEAR FROST VALLEY, 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	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000
2	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
3	.000	.000	.000	.000	.000	.000	.000	e.000	.000	.000	.000	.000
4	.000	.000	.000	.000	.000	.001	.000	e.000	.000	.000	.000	.000
5	.000	.000	.11	.000	.000	.001	.000	e.000	.000	.000	.000	.000
6	.000	.000	.024	.000	.000	.001	.000	e.000	.000	.000	.000	.000
7	.000	.000	.000	.000	.000	.001	.000	e.000	.000	e.000	.000	.000
8	.000	.000	.000	.000	.000	.004	.000	e.000	.000	e.000	.000	.000
9	.000	.000	.000	.000	.000	.054	.000	e.000	.000	e.000	.000	.000
10	.000	.000	.000	.000	.000	.049	.000	e.000	.000	e.000	.000	.000
11	.000	.000	.000	.000	.000	.031	.000	e.000	.000	e.000	.000	.000
12	.000	.000	.000	.000	.000	.019	.000	e.000	.000	e.000	.000	.000
13	.000	.000	.000	.000	.000	.010	.000	e.000	.000	.000	.000	.000
14	.000	.000	e.000	.000	.000	.007	.000	e.000	.000	.000	.000	.000
15	.000	.000	e.000	.029	.000	.17	.000	e.000	.000	.000	.000	.000
16	.000	.000	e.000	.056	.000	.13	.000	e.000	.000	.000	.000	.000
17	.000	.000	.000	.001	.000	.038	.000	e.000	.000	.000	.000	.000
18	.000	.000	.000	.000	.000	.003	.000	e.000	.000	.000	.000	.000
19	.000	.000	.000	.000	.000	.000	.001	e.000	.000	.000	.000	.000
20	.000	.000	.000	.11	.000	.000	.000	e.000	.000	.000	.000	.000
21	.000	.000	.000	.037	.000	.000	.000	e.000	.000	.000	.000	.000
22	.000	.000	.000	.000	.000	.000	.000	e.000	.000	.000	.000	.000
23	.000	.000	.000	.000	.000	.000	.000	e.000	.000	.000	.000	.000
24	.000	.000	.078	.000	.000	.000	.000	e.000	.000	.000	.000	.000
25	.000	.000	.028	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.000	.082	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.000	.018	.000	.000	---	.000	.000	.000	.000	.000	.000	.000
30	.000	.000	.000	.000	---	.000	.000	.000	.000	.000	.000	.000
31	.000	---	.000	.000	---	.000	---	.000	---	.000	.000	---
TOTAL	0.000	0.100	0.240	0.234	0.000	0.519	0.001	0.000	0.000	0.000	0.000	0.000
MEAN	.000	.003	.008	.008	.000	.017	.000	.000	.000	.000	.000	.000
MAX	.000	.082	.11	.11	.000	.17	.001	.000	.000	.000	.000	.000
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
CFSM	.00	.03	.06	.06	.00	.14	.00	.00	.00	.00	.00	.00
IN.	.00	.03	.07	.07	.00	.16	.00	.00	.00	.00	.00	.00

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

MEAN	.000	.030	.009	.005	.000	.011	.093	.000	.000	.000	.000	.001
MAX	.000	.056	.010	.008	.000	.017	.19	.000	.000	.000	.000	.002
(WY)	1994	1994	1994	1995	1994	1995	1994	1994	1994	1994	1994	1994
MIN	.000	.003	.008	.003	.000	.006	.000	.000	.000	.000	.000	.000
(WY)	1994	1995	1995	1994	1994	1994	1995	1994	1994	1994	1995	1995

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1994 - 1995

ANNUAL TOTAL	6.268	1.094	
ANNUAL MEAN	.017	.003	
HIGHEST ANNUAL MEAN			.012 1994
LOWEST ANNUAL MEAN			.003 1995
HIGHEST DAILY MEAN	1.6 Apr 16	.17 Mar 15	1.6 Apr 16 1994
LOWEST DAILY MEAN	.000 Jan 1	.000 Oct 1	.000 Oct 1 1993
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Oct 1	.00 Oct 1 1993
ANNUAL RUNOFF (CFSM)	.14	.025	.10
ANNUAL RUNOFF (INCHES)	1.94	.34	1.40
10 PERCENT EXCEEDS	.00	.00	.00
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

e Estimated

DELAWARE RIVER BASIN

01434086 DRY CREEK AT FLUME NEAR FROST VALLEY, NY

LOCATION.--Lat 41°58'06", long 74°30'46", Ulster County, Hydrologic Unit 02040104, on left bank at the flume, 20 ft downstream from West Dry Creek, and 1.2 mi south of Frost Valley.

DRAINAGE AREA.--0.13 mi².

PERIOD OF RECORD.--October 1992 to September 1995.

GAGE.--Water-stage recorder, H-flume, and crest-stage gage. Elevation of gage is 2,320 ft above sea level, from topographic map.

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

AVERAGE DISCHARGE.--3 years, 0.15 ft³/s, 15.88 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11 ft³/s, Nov. 28, 1993, gage height, 1.90 ft; minimum, no flow, part or all of each day Aug. 27 to Sept. 3, Sept. 14-16, 1993.

EXTREMES FOR CURRENT YEAR.--**Water year 1993:** Maximum discharge, 10 ft³/s, Apr. 16, gage height, 1.80 ft; minimum, no flow, part or all of each day Aug. 27 to Sept. 3, Sept. 14-16.

Water year 1994: Maximum discharge, 11 ft³/s, Nov. 28, gage height, 1.90 ft; minimum, 0.003 ft³/s, Oct. 7, 8, 9, 10, gage height, 0.06 ft..

Water year 1995: Maximum discharge, 4.1 ft³/s, Mar. 8, gage height, 1.20 ft; minimum, 0.003 ft³/s, all or part of each day Aug. 30-31, Sept. 5-7, 12, 28-30, gage height, 0.06 ft.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.027	.048	.17	e.66	e.054	.017	1.9	.18	.053	.027	.011	.000
2	e.026	.054	.15	.43	e.052	.017	1.5	.15	.049	.030	.012	.000
3	e.025	.095	.13	.27	e.056	e.019	.74	.13	.044	.026	.011	.012
4	e.024	.074	.12	.24	e.058	e.020	.44	.11	.035	.020	.010	.010
5	e.023	.098	.11	3.4	e.054	e.022	.33	.13	.041	.019	.009	.005
6	e.024	.10	.10	1.1	e.052	.024	.35	.13	.035	.019	.008	.003
7	e.023	.082	.096	.54	e.050	.023	.48	.11	.026	.019	.017	.002
8	e.022	.067	e.085	.36	e.048	.023	.81	.10	.027	.018	.011	.004
9	.11	.062	e.080	.26	e.049	e.029	1.2	.096	.030	.015	.008	.005
10	.19	.064	.075	.20	e.054	e.029	3.5	.088	.031	.015	.007	.005
11	.16	.083	.074	.16	.054	e.027	4.0	.079	.029	.015	.009	.004
12	.15	.091	.075	.14	.050	e.028	1.2	.076	.027	.017	.008	.003
13	.12	.98	.066	e.12	.045	.031	.80	.070	.026	.015	.005	.002
14	.093	.30	.064	e.10	e.043	e.032	.80	.064	.026	.014	.005	.000
15	.087	.20	.061	e.094	e.041	e.030	.88	.061	.033	.014	.004	.000
16	.085	.16	.059	e.092	.041	.029	2.7	.057	.032	.012	.007	.002
17	.055	.15	.13	e.086	.037	e.032	3.1	.054	.030	.011	.010	.010
18	.065	.14	.11	e.084	.037	e.031	.84	.055	.029	.011	.007	.005
19	.061	.13	.096	e.080	.037	.030	.48	.054	.029	.020	.005	.003
20	.053	.12	.11	e.078	.037	.029	.34	.077	.045	.014	.005	.001
21	.045	.20	.11	e.078	.037	.029	.28	.059	.077	.011	.004	.005
22	.035	.51	.11	e.076	.037	.029	.62	.054	.047	.010	.003	.006
23	.036	1.1	.11	e.068	e.034	.030	.47	.050	.040	.010	.003	.003
24	.042	.43	e.10	e.070	e.032	.063	.33	.050	.037	.010	.003	.003
25	.031	.41	e.094	e.074	e.030	.049	.27	.048	.037	.009	.006	.003
26	.030	.40	e.090	e.078	e.029	.055	.36	.045	.030	.009	.003	.020
27	.047	.37	e.086	e.078	e.028	.072	.43	.045	.031	.025	.001	.010
28	.061	.25	.097	e.074	.023	.18	.31	.043	.030	.015	.000	.010
29	.057	.20	.12	e.070	---	1.2	.25	.046	.029	.012	.000	.005
30	.054	.19	.29	e.064	---	1.8	.21	.049	.028	.017	.000	.005
31	.048	---	e.15	e.060	---	1.4	---	.062	---	.012	.000	---
TOTAL	1.909	7.158	4.668	9.284	1.199	5.429	29.92	2.422	1.063	0.491	0.192	0.146
MEAN	.062	.24	.15	.30	.043	.18	1.00	.078	.035	.016	.006	.005
MAX	.19	1.1	1.5	3.4	.058	1.8	4.0	.18	.077	.030	.017	.020
MIN	.022	.048	.059	.060	.023	.017	.21	.043	.026	.009	.000	.000
CFSM	.47	1.84	1.16	2.30	.33	1.35	7.67	.60	.27	.12	.05	.04
IN.	.55	2.05	1.34	2.66	.34	1.55	8.56	.69	.30	.14	.05	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1993, BY WATER YEAR (WY)

MEAN	.062	.24	.15	.30	.043	.18	1.00	.078	.035	.016	.006	.005
MAX	.062	.24	.15	.30	.043	.18	1.00	.078	.035	.016	.006	.005
(WY) 1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993
MIN	.062	.24	.15	.30	.043	.18	1.00	.078	.035	.016	.006	.005
(WY) 1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993

SUMMARY STATISTICS

FOR 1993 WATER YEAR

ANNUAL TOTAL	63.881
ANNUAL MEAN	.18
HIGHEST DAILY MEAN	4.0 Apr 11
LOWEST DAILY MEAN	.000 Aug 28
ANNUAL SEVEN-DAY MINIMUM	.00 Aug 27
ANNUAL RUNOFF (CFSM)	1.35
ANNUAL RUNOFF (INCHES)	18.28
10 PERCENT EXCEEDS	.36
50 PERCENT EXCEEDS	.05
90 PERCENT EXCEEDS	.00

e Estimated

DELAWARE RIVER BASIN

279

01434086 DRY CREEK AT FLUME NEAR FROST VALLEY, NY--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.005	.21	.24	e.084	.075	e.076	.21	.16	.043	.034	.062	.064
2	.005	.16	.18	.077	.064	.075	.22	.12	.041	.032	.053	e.056
3	.007	.16	.18	.064	e.062	.075	.31	.11	.039	.029	.050	.050
4	.005	.17	.21	e.060	.059	.067	.49	.11	.033	.031	.047	.053
5	.005	.22	.84	e.056	e.056	.062	.56	.11	.032	.031	.047	.054
6	.005	.23	.42	e.054	.054	.056	1.1	.10	.029	.031	.043	.050
7	.004	.18	.27	e.052	e.052	.065	2.2	.097	.036	.032	.040	.045
8	.003	.15	.21	e.048	e.049	e.072	.83	.12	.029	.033	.037	.043
9	.004	.13	.18	e.045	e.047	.074	.66	.10	.027	.031	.034	.041
10	.004	.12	.23	e.040	e.044	.37	1.8	.096	.025	.027	.040	.037
11	.005	.11	.32	e.035	e.041	.27	1.3	.089	.025	.027	.040	.036
12	.024	.10	.20	e.031	e.042	.19	1.0	.099	.048	.025	.036	.033
13	.013	.099	.17	e.030	e.043	.18	3.1	.094	.029	.024	.046	.032
14	.009	.17	.15	e.028	e.041	e.16	2.7	.085	.056	.023	.066	.031
15	.013	.19	.14	e.027	e.039	e.14	2.2	.085	.028	.027	.037	.029
16	.012	.15	.13	e.025	.038	e.12	3.7	.12	.026	.023	.027	.031
17	.013	.18	.12	e.025	.038	e.11	1.3	.096	.026	.021	.045	.032
18	.018	.24	.12	e.024	.041	.11	.63	.096	.022	.023	.14	.034
19	.018	.22	.11	e.024	.046	.10	.46	.089	.017	.021	.091	.028
20	.026	.20	.097	e.023	.063	.095	.37	.085	.017	.043	.081	.025
21	.062	.16	.18	e.022	.11	.090	.29	.085	.024	.028	e.18	.023
22	.10	.15	.15	e.022	.13	.095	.24	.081	.018	.060	.45	.024
23	.098	.13	.13	e.021	.11	.11	.19	.073	.015	.050	.31	.040
24	.096	.12	e.12	e.021	e.10	.16	.16	.069	.018	.031	.17	.026
25	.090	.11	.12	e.020	e.094	.33	.15	.075	.028	.036	.13	.023
26	.082	.096	e.11	e.019	e.090	.26	.14	.077	.019	.069	.11	.025
27	.075	.090	e.11	e.020	e.084	.28	.13	.069	.025	.059	.091	.38
28	.070	3.6	e.10	.26	e.080	.46	.12	.059	.051	.071	.087	.27
29	.068	.90	e.10	.12	---	.35	.12	.054	.040	.064	.086	.15
30	.083	.38	.10	.098	---	.25	.11	.050	.040	.064	.074	.11
31	.14	---	.093	.085	---	.21	---	.048	---	.061	.074	---
TOTAL	1.162	9.125	5.830	1.560	1.792	5.062	26.79	2.801	0.906	1.161	2.824	1.875
MEAN	.037	.30	.19	.050	.064	.16	.89	.090	.030	.037	.091	.062
MAX	.14	3.6	.84	.26	.13	.46	3.7	.16	.056	.071	.45	.38
MIN	.003	.090	.093	.019	.038	.056	.11	.048	.015	.021	.027	.023
CFSM	.29	2.34	1.45	.39	.49	1.26	6.87	.70	.23	.29	.70	.48
IN.	.33	2.61	1.67	.45	.51	1.45	7.67	.80	.26	.33	.81	.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1994, BY WATER YEAR (WY)

MEAN	.050	.27	.17	.17	.053	.17	.95	.084	.033	.027	.049	.034
MAX	.062	.30	.19	.30	.064	.18	1.00	.090	.035	.037	.091	.062
(WY)	1993	1994	1994	1993	1994	1993	1993	1994	1993	1994	1994	1994
MIN	.037	.24	.15	.050	.043	.16	.89	.078	.030	.016	.006	.005
(WY)	1994	1993	1993	1994	1993	1994	1994	1993	1994	1993	1993	1993

SUMMARY STATISTICS FOR 1993 CALENDAR YEAR FOR 1994 WATER YEAR WATER YEARS 1993 - 1994

ANNUAL TOTAL	66.263	60.888	
ANNUAL MEAN	.18	.17	.17
HIGHEST ANNUAL MEAN			.18 1993
LOWEST ANNUAL MEAN			.17 1994
HIGHEST DAILY MEAN	4.0 Apr 11	3.7 Apr 16	4.0 Apr 11 1993
LOWEST DAILY MEAN	.000 Aug 28	.003 Oct 8	.000 Aug 28 1993
ANNUAL SEVEN-DAY MINIMUM	.00 Aug 27	.00 Oct 4	.00 Aug 27 1993
ANNUAL RUNOFF (CFSM)	1.40	1.28	1.31
ANNUAL RUNOFF (INCHES)	18.96	17.42	17.86
10 PERCENT EXCEEDS	.34	.26	.31
50 PERCENT EXCEEDS	.05	.07	.06
90 PERCENT EXCEEDS	.00	.02	.01

e Estimated

DELAWARE RIVER BASIN

01434086 DRY CREEK AT FLUME NEAR FROST VALLEY, 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	.11	.059	.20	.22	e.082	.045	.084	.091	e.045	.039	.013	.011
2	.12	.040	.17	.18	.074	.042	.080	.081	e.056	.041	.017	.008
3	.10	.032	.14	.15	e.070	e.041	.073	.075	.081	.038	.014	.007
4	.088	.029	.13	.14	e.068	e.042	e.084	.072	.070	.037	.014	.006
5	.083	.034	.63	e.13	.064	.043	.077	.074	.064	e.031	.028	.005
6	.075	.037	.45	.12	e.060	.046	.070	.065	.064	e.028	.023	.005
7	.069	.035	.29	e.12	e.055	.053	.065	.061	.060	e.035	.018	.005
8	.064	.036	.24	e.13	e.055	1.1	.064	.054	.054	e.023	.016	.005
9	.067	.045	.19	e.12	.055	e.80	.083	.054	.049	e.021	.015	.015
10	.062	.047	.17	.13	.054	.34	.082	.058	.049	e.019	.017	.008
11	.054	.043	.25	.12	.054	.22	.078	.058	.050	e.021	e.017	.006
12	.054	.042	.18	.12	e.056	.18	.10	.056	.065	e.030	.017	.005
13	.054	.037	.14	.18	e.054	.20	.17	.054	.050	.011	.016	.018
14	.049	.037	.13	.20	e.051	.36	.15	.054	.049	.010	e.016	.008
15	.045	.037	.12	.48	e.050	e.84	.14	.055	.045	.009	.022	.005
16	.045	.037	.11	.74	e.047	e.74	.13	.048	.040	.012	.040	.005
17	.045	.036	.11	.42	.044	.46	.12	e.048	.035	.034	.027	.025
18	.039	.043	.10	.29	.040	.30	.12	.049	.032	.019	.020	.007
19	.037	.031	.090	.23	.038	.23	.23	.050	.028	.012	.019	.005
20	.042	.029	.083	.66	.038	.19	e.17	.045	.017	.011	.017	e.009
21	.038	.053	.078	.52	.037	.22	e.16	.036	.017	.010	.016	e.009
22	.037	.043	.076	.31	.036	.22	.17	.034	.016	.009	.015	.049
23	.037	.038	.074	.23	.035	.17	.15	.029	.013	.016	.014	.016
24	.031	.044	.58	.19	e.037	.15	.14	.033	.012	.013	.012	.009
25	.029	.049	.53	.16	e.036	.13	.13	.037	.012	.013	.011	.008
26	.029	.052	.29	e.14	e.034	.12	.12	.037	.011	.043	.011	.010
27	.029	.051	.22	.13	.032	.11	.10	.036	.024	.032	.010	.007
28	.028	.71	.19	.12	.076	.10	.10	.026	.035	.020	.010	.005
29	.027	.58	.16	.11	---	.093	.092	.058	.035	.015	.009	.004
30	.023	.28	e.14	.10	---	.097	.085	.056	.036	.017	.006	.003
31	.023	---	.13	e.090	---	.093	---	.050	---	.015	.007	---
TOTAL	1.633	2.666	6.391	6.980	1.432	7.775	3.417	1.634	1.214	0.684	0.507	0.288
MEAN	.053	.089	.21	.23	.051	.25	.11	.053	.040	.022	.016	.010
MAX	.12	.71	.63	.74	.082	1.1	.23	.091	.081	.043	.040	.049
MIN	.023	.029	.074	.090	.032	.041	.064	.026	.011	.009	.006	.003
CFSM	.41	.68	1.59	1.73	.39	1.93	.88	.41	.31	.17	.13	.07
IN.	.47	.76	1.83	2.00	.41	2.22	.98	.47	.35	.20	.15	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1995, BY WATER YEAR (WY)

MEAN	.051	.21	.18	.19	.053	.20	.67	.074	.035	.025	.038	.026
MAX	.062	.30	.21	.30	.064	.25	1.00	.090	.040	.037	.091	.062
(WY)	1993	1994	1995	1993	1994	1995	1993	1994	1995	1994	1994	1994
MIN	.037	.089	.15	.050	.043	.16	.11	.053	.030	.016	.006	.005
(WY)	1994	1995	1993	1994	1993	1994	1995	1995	1994	1993	1993	1993

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1993 - 1995
ANNUAL TOTAL	55.461	34.621	
ANNUAL MEAN	.15	.095	.15
HIGHEST ANNUAL MEAN			.18 1993
LOWEST ANNUAL MEAN			.095 1995
HIGHEST DAILY MEAN	3.7 Apr 16	1.1 Mar 8	4.0 Apr 11 1993
LOWEST DAILY MEAN	.015 Jun 23	.003 Sep 30	.000 Aug 28 1993
ANNUAL SEVEN-DAY MINIMUM	.02 Jun 18	.01 Sep 2	.00 Aug 27 1993
ANNUAL RUNOFF (CFSM)	1.17	.73	1.12
ANNUAL RUNOFF (INCHES)	15.87	9.91	15.21
10 PERCENT EXCEEDS	.27	.20	.26
50 PERCENT EXCEEDS	.06	.05	.05
90 PERCENT EXCEEDS	.02	.01	.01

e Estimated

DELAWARE RIVER BASIN

281

01434087 SHEEP BROOK NEAR FROST VALLEY, NY

LOCATION.--Lat 41°58'07", long 74°30'45", Ulster County, Hydrologic Unit 02040104, on right bank 200 ft upstream from mouth, near flume on Dry Creek, and 1.2 mi south of Frost Valley.

DRAINAGE AREA.--0.13 mi².

PERIOD OF RECORD.--July 1994 to September 1995. Occasional miscellaneous measurements 1994.

GAGE.--Water-stage recorder and V-notch sharp-crested weir. Elevation of gage is 2,320 ft above sea level, from topographic map.

REMARKS.--Records poor. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--1 year, 0.054 ft³/s, 5.64 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 0.62 ft³/s, Sept. 27, 1994; maximum gage height, 1.68 ft, Feb. 13, 1995 (ice jam); minimum discharge, 0.004 ft³/s, July 26, 1995, gage height, 1.17 ft.

EXTREMES FOR CURRENT YEAR.--July to September 1994: Maximum discharge, 0.62 ft³/s, Sept. 27, gage height, 1.57 ft; minimum, 0.011 ft³/s, Sept. 17, gage height, 1.23 ft.

Water year 1995: Maximum discharge, 0.47 ft³/s, Mar. 8; maximum gage height, 1.68 ft, Feb. 13 (ice jam); minimum discharge, 0.004 ft³/s, July 26, gage height, 1.17 ft.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	e.050	.044
2	---	---	---	---	---	---	---	---	---	---	e.054	.054
3	---	---	---	---	---	---	---	---	---	---	e.058	.053
4	---	---	---	---	---	---	---	---	---	---	e.050	.048
5	---	---	---	---	---	---	---	---	---	---	e.056	.049
6	---	---	---	---	---	---	---	---	---	---	e.060	.049
7	---	---	---	---	---	---	---	---	---	---	.059	.050
8	---	---	---	---	---	---	---	---	---	---	.056	.049
9	---	---	---	---	---	---	---	---	---	---	.051	.043
10	---	---	---	---	---	---	---	---	---	---	.051	.048
11	---	---	---	---	---	---	---	---	---	---	.050	.048
12	---	---	---	---	---	---	---	---	---	---	.047	.039
13	---	---	---	---	---	---	---	---	---	---	.050	.029
14	---	---	---	---	---	---	---	---	---	---	.059	.028
15	---	---	---	---	---	---	---	---	---	---	.047	.024
16	---	---	---	---	---	---	---	---	---	---	.043	.018
17	---	---	---	---	---	---	---	---	---	---	.053	.015
18	---	---	---	---	---	---	---	---	---	---	.071	.032
19	---	---	---	---	---	---	---	---	---	---	.055	.042
20	---	---	---	---	---	---	---	---	---	---	.059	.037
21	---	---	---	---	---	---	---	---	---	.089	.080	.026
22	---	---	---	---	---	---	---	---	---	.11	.11	.030
23	---	---	---	---	---	---	---	---	---	.077	.12	.029
24	---	---	---	---	---	---	---	---	---	.054	.082	.021
25	---	---	---	---	---	---	---	---	---	.051	.066	.019
26	---	---	---	---	---	---	---	---	---	.055	.059	.020
27	---	---	---	---	---	---	---	---	---	.049	.052	.082
28	---	---	---	---	---	---	---	---	---	e.064	.051	.056
29	---	---	---	---	---	---	---	---	---	e.058	.048	.059
30	---	---	---	---	---	---	---	---	---	e.054	.047	.070
31	---	---	---	---	---	---	---	---	---	e.052	.045	---
TOTAL	---	---	---	---	---	---	---	---	---	---	1.839	1.211
MEAN	---	---	---	---	---	---	---	---	---	---	.059	.040
MAX	---	---	---	---	---	---	---	---	---	---	.12	.082
MIN	---	---	---	---	---	---	---	---	---	---	.043	.015
CFSM	---	---	---	---	---	---	---	---	---	---	.46	.31
IN.	---	---	---	---	---	---	---	---	---	---	.53	.35

e Estimated

DELAWARE RIVER BASIN

01434087 SEEP BROOK NEAR FROST VALLEY, 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	.057	.055	.081	.079	e.047	.046	.052	.074	.056	.042	.022	.019
2	.056	.058	.077	.070	.044	e.046	.052	.067	.062	.040	.027	.018
3	.072	.087	.069	.068	e.044	e.047	.052	.068	.061	.038	.027	.016
4	.060	.087	.068	.069	.044	e.048	.061	.068	.057	.036	.030	.016
5	.056	.085	.10	.068	.044	.049	.076	.068	.051	.038	.038	.016
6	.059	.074	.12	.068	.041	.052	.059	.066	.039	.039	.030	.017
7	.058	.044	.097	.081	.044	.054	.059	.059	.039	.042	.027	.016
8	.045	.044	.080	.074	.044	.18	.061	.059	.040	.035	.026	.015
9	.046	.046	.070	.077	.043	.18	.068	.059	.037	.032	.026	.020
10	.058	.047	.077	.071	.046	.11	.060	.063	.042	.032	.025	.014
11	.085	.044	.083	.059	.044	.090	.059	.059	.051	.033	.026	.013
12	.046	.051	.073	.061	e.046	.082	.075	.052	.060	.032	.026	.013
13	.037	.049	.063	.066	e.045	.085	.088	.052	.057	.029	.026	.027
14	.040	.044	.059	.063	.046	.099	.098	.052	.059	.029	.027	.017
15	.055	.052	.059	.090	e.045	.13	.090	.052	.056	.032	.026	.017
16	.083	.056	.056	.13	e.043	.14	.087	.052	.051	.032	.040	.016
17	.11	.059	.059	.10	.038	.12	.087	.048	.048	.044	.032	.029
18	.098	.061	.054	.081	.041	.10	.074	.045	.046	.030	.031	.015
19	.095	.052	.052	.066	.045	.088	.093	.045	.040	.026	.029	.014
20	.056	.052	.049	.091	.044	.078	.087	.045	.039	.026	.027	.014
21	.043	.067	.044	.10	.044	.086	.089	.052	.044	.026	.027	.014
22	.057	.054	.044	.080	e.043	.078	.087	.049	.040	.023	.027	.041
23	.071	.056	.044	.064	.044	.077	.087	.045	.035	.027	.025	.015
24	.066	.059	.098	.053	.046	.076	.086	.047	.037	.025	.026	.014
25	.065	.059	.11	e.052	e.044	.069	.077	.046	.039	.025	.025	.014
26	.060	.059	.093	.052	.043	.068	.068	.047	.046	.032	.025	.016
27	.050	.059	.079	.051	.038	.067	.085	.038	.045	.033	.025	.014
28	.047	.14	.074	.050	e.045	.059	.079	.051	.045	.025	.024	.014
29	.042	.14	.065	e.046	---	.059	.077	.067	.044	.024	.023	.013
30	.037	.099	.063	.045	---	.061	.077	.051	.041	.022	.020	.013
31	.038	---	.068	.049	---	.057	---	.053	---	.021	.020	---
TOTAL	1.848	1.939	2.228	2.174	1.225	2.581	2.250	1.699	1.407	0.970	0.835	0.510
MEAN	.060	.065	.072	.070	.044	.083	.075	.055	.047	.031	.027	.017
MAX	.11	.14	.12	.13	.047	.18	.098	.074	.062	.044	.040	.041
MIN	.037	.044	.044	.045	.038	.046	.052	.038	.035	.021	.020	.013
CFSM	.46	.50	.55	.54	.34	.64	.58	.42	.36	.24	.21	.13
IN.	.53	.55	.64	.62	.35	.74	.64	.49	.40	.28	.24	.15

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

	MEAN	.060	.065	.072	.070	.044	.083	.075	.055	.047	.031	.043	.029
MAX	.060	.065	.072	.070	.044	.083	.075	.055	.047	.031	.031	.059	.040
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1994	1994
MIN	.060	.065	.072	.070	.044	.083	.075	.055	.047	.031	.031	.027	.017
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1994 - 1995

ANNUAL TOTAL	19.666		
ANNUAL MEAN	.054	.054	
HIGHEST ANNUAL MEAN		.054	1995
LOWEST ANNUAL MEAN		.054	1995
HIGHEST DAILY MEAN	.18	Mar 8	1995
LOWEST DAILY MEAN	.013	Sep 11	1995
ANNUAL SEVEN-DAY MINIMUM	.01	Sep 24	1995
ANNUAL RUNOFF (CFSM)	.41	.41	
ANNUAL RUNOFF (INCHES)	5.63	5.63	
10 PERCENT EXCEEDS	.09	.09	
50 PERCENT EXCEEDS	.05	.05	
90 PERCENT EXCEEDS	.02	.02	

e Estimated

DELAWARE RIVER BASIN

283

01434092 SHELTER CREEK BELOW DRY CREEK NEAR FROST VALLEY, NY

LOCATION.--Lat 41°58'12", long 74°30'53", Ulster County, Hydrologic Unit 02040104, on right bank about 50 ft downstream from Dry Creek, and 1.2 mi south of Frost Valley.

DRAINAGE AREA.--0.62 mi².

PERIOD OF RECORD.--October 1992 to September 1994. Occasional miscellaneous measurements 1992.

GAGE.--Water-stage recorder. Elevation of gage is 2,140 ft above sea level, from topographic map.

REMARKS.--Records poor. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--2 years, 2.04 ft³/s, 44.68 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 53 ft³/s, Apr. 16, 1994, gage height, 1.71 ft; minimum, 0.049 ft³/s, Aug. 15, 27, 29, 30, 31, Sept. 14, 15, 1993, gage height, 0.70 ft.

EXTREMES FOR CURRENT YEAR.--**Water year 1993:** Maximum discharge, 50 ft³/s, Apr. 10, gage height, 1.70 ft; minimum, 0.049 ft³/s, Aug. 15, 27, 29, 30, 31, Sept. 14, 15, gage height, 0.70 ft.

Water year 1994: Maximum discharge, 53 ft³/s, Apr. 16, gage height, 1.71 ft; minimum, 0.068 ft³/s, Oct. 8, gage height, 0.74 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.65	.76	2.5	9.4	e.91	e.49	14	2.5	.91	.25	.13	.058
2	.61	1.1	2.3	6.3	.80	e.49	11	2.2	.61	.27	.15	.066
3	.58	3.6	2.1	4.5	e.90	e.52	8.9	1.8	.56	.49	.14	.42
4	.58	1.6	1.9	4.4	e.84	e.50	6.6	1.7	.56	.25	.11	.47
5	.56	1.6	1.6	e22	e.78	e.48	5.1	1.7	.80	.20	.10	.096
6	.56	1.7	1.5	e9.2	e.70	e.50	5.2	1.5	1.0	.20	.095	.072
7	.54	1.5	1.4	e5.4	e.68	.38	6.1	1.4	.67	.20	.24	.068
8	.54	1.4	1.2	e3.5	e.65	.36	7.7	1.4	.66	.20	.19	.12
9	2.4	1.3	1.1	3.0	e.64	.35	9.7	1.3	.95	.18	.096	.14
10	3.0	1.3	e1.1	2.5	e.75	.34	21	1.2	.71	.17	.086	.31
11	1.6	1.8	e1.1	e2.3	.62	.34	28	1.0	.58	.17	.089	.12
12	1.7	2.0	1.1	e2.2	.57	.33	13	1.0	.54	.24	.12	.076
13	1.7	9.3	.98	e2.1	.64	e.52	10	1.2	.51	.19	.097	.064
14	1.6	5.1	.93	2.0	.54	.38	9.8	1.0	.48	.18	.072	.060
15	1.6	3.6	.90	1.8	.53	.34	10	1.0	.48	.18	.062	.070
16	1.7	2.7	.94	1.6	.54	.34	14	1.0	.45	.18	.081	.066
17	1.6	2.5	3.0	1.5	.53	e.57	14	.84	.42	.18	.20	.55
18	1.5	2.2	2.2	1.3	.49	.54	8.3	.88	.39	.17	.15	.17
19	1.4	2.1	1.6	e1.1	.49	.40	6.2	.98	.39	.58	e.093	.090
20	1.3	1.9	1.8	e1.1	.49	.34	3.9	1.8	.71	.35	.10	.065
21	1.3	3.6	1.7	1.1	.47	.32	3.3	1.2	2.0	.23	.095	.20
22	1.1	6.7	e1.6	2.1	.44	.31	6.9	.87	.95	.20	.076	.27
23	.98	10	e1.5	1.3	.43	.31	7.7	.79	.48	.19	.073	.12
24	1.3	7.1	e1.4	1.7	.43	e1.2	5.8	.78	.38	.16	.074	.12
25	1.1	6.5	e1.3	1.9	.41	1.1	3.8	.73	.34	.15	.13	.072
26	.90	6.6	e1.3	1.4	.37	1.3	5.2	.67	.39	.17	.072	1.1
27	.84	5.8	1.4	1.3	.37	1.9	7.2	.62	.41	.54	.064	.53
28	.83	4.3	1.5	1.2	.37	4.3	5.5	.63	.41	.25	.064	.53
29	.83	3.2	2.1	1.1	---	9.1	4.2	.62	.33	.16	.056	.14
30	.80	2.7	5.1	e1.0	---	12	3.3	.55	.27	.30	.055	.10
31	.77	---	10	e.95	---	10	---	1.1	---	.16	.055	---
TOTAL	36.47	105.56	60.15	102.25	16.38	50.35	265.4	35.96	18.34	7.34	3.215	6.333
MEAN	1.18	3.52	1.94	3.30	.58	1.62	8.85	1.16	.61	.24	.10	.21
MAX	3.0	10	10	22	.91	12	28	2.5	2.0	.58	.24	1.1
MIN	.54	.76	.90	.95	.37	.31	3.3	.55	.27	.15	.055	.058
CFSM	1.90	5.68	3.13	5.32	.94	2.62	14.3	1.87	.99	.38	.17	.34
IN.	2.19	6.33	3.61	6.13	.98	3.02	15.92	2.16	1.10	.44	.19	.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1993, BY WATER YEAR (WY)

	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993
MEAN	1.18	3.52	1.94	3.30	.58	1.62	8.85	1.16	.61	.24	.10	.21
MAX	1.18	3.52	1.94	3.30	.58	1.62	8.85	1.16	.61	.24	.10	.21
(WY)	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993
MIN	1.18	3.52	1.94	3.30	.58	1.62	8.85	1.16	.61	.24	.10	.21
(WY)	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993	1993

SUMMARY STATISTICS

FOR 1993 WATER YEAR

ANNUAL TOTAL	707.748
ANNUAL MEAN	1.94
HIGHEST DAILY MEAN	28 Apr 11
LOWEST DAILY MEAN	.055 Aug 30
ANNUAL SEVEN-DAY MINIMUM	.06 Aug 27
ANNUAL RUNOFF (CFSM)	3.13
ANNUAL RUNOFF (INCHES)	42.46
10 PERCENT EXCEEDS	5.6
50 PERCENT EXCEEDS	.80
90 PERCENT EXCEEDS	.12

e Estimated

DELAWARE RIVER BASIN

01434092 SHELTER CREEK BELOW DRY CREEK NEAR FROST VALLEY, NY--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.091	2.9	5.3	e1.1	1.4	1.1	2.5	3.6	.70	1.5	1.2	1.0
2	.099	1.9	4.0	e1.0	e1.3	1.0	2.7	2.3	.63	1.2	1.1	.82
3	.27	1.9	3.8	e.94	e1.2	e1.0	3.7	2.2	.57	1.1	.92	.74
4	.12	1.9	4.4	e.88	1.1	e.99	5.0	2.2	.51	1.0	.82	.65
5	.099	e3.0	10	e.83	e1.1	e1.0	6.2	2.1	.47	1.0	.88	.57
6	.093	e5.0	6.4	e.79	e1.0	1.0	10	2.0	.51	.90	.66	.51
7	.099	e4.5	5.1	e.78	e.92	1.3	17	1.9	.80	1.1	.57	.48
8	.11	e2.4	4.0	e.75	.88	e1.7	11	2.7	.46	.96	.52	.45
9	.12	e2.0	3.5	e.72	e.88	1.5	10	1.9	.38	.73	.48	.44
10	.12	e1.8	4.1	e.69	.85	7.3	13	1.8	.35	.58	.44	.38
11	.12	e1.6	4.7	e.66	.85	3.5	11	1.7	.35	.49	.42	.36
12	1.1	e1.5	3.1	e.64	e.82	2.5	9.1	1.9	1.3	.44	.41	.35
13	.58	e1.5	2.8	.58	e.78	2.2	21	1.6	.63	.41	.76	.34
14	.27	e2.4	2.6	e.60	.75	2.1	21	1.6	1.8	.43	1.6	.37
15	.49	e2.9	2.5	e.58	.71	1.9	18	1.6	.73	.57	.62	.34
16	.32	e2.1	2.2	e.56	.70	1.8	18	2.8	.45	.39	.49	.38
17	.29	e2.7	1.9	e.54	.68	1.6	12	1.8	.44	.34	1.0	.35
18	.52	e4.0	1.6	e.52	.79	1.4	8.1	1.7	.44	.39	4.9	.49
19	.38	e3.4	1.5	e.50	.98	1.3	6.5	1.7	.37	.35	2.1	.27
20	1.2	e2.8	e1.3	e.50	1.5	1.2	5.1	1.6	.32	1.2	1.7	.24
21	2.6	e2.6	e2.6	e.48	2.6	1.1	4.5	1.5	.57	.56	3.7	.24
22	1.9	e2.3	e2.1	e.45	2.0	1.2	4.0	1.3	.48	2.5	6.5	.25
23	1.6	e2.1	e1.8	e.44	1.7	1.7	3.4	1.2	.32	2.2	4.6	.87
24	1.5	2.0	e1.6	e.44	e1.6	2.4	3.1	1.1	.48	.75	3.3	.37
25	1.3	1.9	e1.5	e.42	1.5	3.6	2.8	1.3	e1.0	.82	2.6	.32
26	1.2	1.8	e1.5	e.40	1.4	2.8	2.6	1.3	e.85	2.2	2.3	.42
27	1.2	1.9	e1.4	.35	e1.4	3.3	2.5	1.1	e.97	1.8	2.0	6.0
28	1.1	19	e1.3	7.1	1.2	4.7	2.4	.83	2.4	1.9	1.9	3.0
29	.99	12	e1.3	3.5	---	3.6	2.3	.73	1.9	1.5	1.6	1.9
30	1.6	7.5	e1.2	1.8	---	2.9	2.2	.65	1.7	1.4	1.2	1.7
31	2.4	---	e1.1	1.5	---	2.6	---	.61	---	1.2	1.2	---
TOTAL	23.881	105.3	92.2	31.04	32.59	67.29	240.7	52.32	22.88	31.91	52.49	24.60
MEAN	.77	3.51	2.97	1.00	1.16	2.17	8.02	1.69	.76	1.03	1.69	.82
MAX	2.6	19	10	7.1	2.6	7.3	21	3.6	2.4	2.5	6.5	6.0
MIN	.091	1.5	1.1	.35	.68	.99	2.2	.61	.32	.34	.41	.24
CFSM	1.24	5.66	4.80	1.61	1.88	3.50	12.9	2.72	1.23	1.66	2.73	1.32
IN.	1.43	6.32	5.53	1.86	1.96	4.04	14.44	3.14	1.37	1.91	3.15	1.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1994, BY WATER YEAR (WY)

MEAN	.97	3.51	2.46	2.15	.87	1.90	8.43	1.42	.69	.63	.90	.52
MAX	1.18	3.52	2.97	3.30	1.16	2.17	8.85	1.69	.76	1.03	1.69	.82
(WY)	1993	1993	1994	1993	1994	1994	1993	1994	1994	1994	1994	1994
MIN	.77	3.51	1.94	1.00	.58	1.62	8.02	1.16	.61	.24	.10	.21
(WY)	1994	1994	1993	1994	1993	1993	1994	1993	1993	1993	1993	1993

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1993 - 1994
ANNUAL TOTAL	726.949	777.201	
ANNUAL MEAN	1.99	2.13	2.03
HIGHEST ANNUAL MEAN			2.13
LOWEST ANNUAL MEAN			1.94
HIGHEST DAILY MEAN	28 Apr 11	21 Apr 13	28 Apr 11 1993
LOWEST DAILY MEAN	.055 Aug 30	.091 Oct 1	.055 Aug 30 1993
ANNUAL SEVEN-DAY MINIMUM	.06 Aug 27	.11 Oct 4	.06 Aug 27 1993
ANNUAL RUNOFF (CFSM)	3.21	3.43	3.28
ANNUAL RUNOFF (INCHES)	43.62	46.63	44.58
10 PERCENT EXCEEDS	5.2	4.2	4.9
50 PERCENT EXCEEDS	.71	1.3	1.1
90 PERCENT EXCEEDS	.10	.38	.19

e Estimated

DELAWARE RIVER BASIN

285

01434498 WEST BRANCH NEVERSINK RIVER AT CLARYVILLE, NY

LOCATION.--Lat 41°55'13", long 74°34'30", Sullivan County, Hydrologic Unit 02040104, on left bank about 100 ft downstream from bridge on County Highway 157 in Claryville.

DRAINAGE AREA.--33.8 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 1,620 ft above sea level, from topographic map.

REMARKS.--Records good except those above 1,600 ft³/s and those for estimated daily discharges, which are poor.

Diversion upstream from station to maintain lake volume at Frost Valley YMCA camp. Excess lake water is diverted back into the river upstream from station.

AVERAGE DISCHARGE.--5 years, 106 ft³/s, 42.59 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,020 ft³/s, Jan. 19, 1996, gage height, 11.83 ft, from rating curve extended above 1,190 ft³/s on basis of runoff comparisons with nearby stations; minimum discharge, 5.9 ft³/s, result of freezeup, Mar. 14, 1993; minimum gage height, 4.22 ft, Sept. 14, 15, 1991.

EXTREMES 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)
Oct. 21	1545	a4,100	10.09	Apr. 16	1015	1,680	8.01
Nov. 12	0245	a3,660	9.79	Apr. 30	2030	2,130	8.46
Jan. 19	1645	a*8,020	*11.83	July 13	1715	2,350	8.65
Jan. 27	1630	a5,160	10.51				

a From rating curve extended as explained above.

Minimum discharge, 9.7 ft³/s, Oct. 2, 3, 4, gage height, 4.44 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	144	77	e34	145	146	131	750	45	52	94	32
2	10	320	71	e33	e130	130	153	350	42	42	79	30
3	9.7	306	68	e33	e110	113	129	252	44	102	73	27
4	18	235	76	27	e100	98	115	210	61	116	136	27
5	37	178	68	28	e90	101	109	175	51	101	125	27
6	209	150	67	27	e85	116	102	175	42	70	95	25
7	75	151	61	e26	e80	102	106	152	38	59	80	44
8	48	166	56	e26	e75	89	98	133	138	58	72	71
9	36	127	e53	e26	e70	78	90	124	237	60	73	42
10	31	110	e48	e25	e65	84	87	140	258	58	70	32
11	28	134	e47	e25	e60	82	86	329	195	48	62	29
12	26	1450	e46	e25	e57	77	106	502	124	44	58	27
13	25	385	e45	e25	e56	75	263	272	104	836	56	27
14	68	273	e44	e25	e55	84	481	203	89	452	52	30
15	206	336	e55	e25	e54	116	269	169	77	387	52	26
16	93	247	e50	e25	e52	114	1070	160	68	580	54	24
17	68	196	48	e32	e51	93	511	147	69	254	49	53
18	57	170	46	e40	e50	99	295	134	70	174	43	449
19	52	153	44	e3100	e60	109	242	125	80	158	40	115
20	48	138	42	865	e70	185	254	111	93	147	38	66
21	1690	128	39	301	e350	131	275	109	82	114	36	52
22	683	119	42	195	e300	111	220	99	72	98	34	55
23	263	105	42	149	286	99	222	88	64	90	32	97
24	178	96	40	412	417	92	311	81	57	83	57	62
25	149	88	39	408	296	104	208	74	58	87	38	65
26	121	84	38	229	213	175	178	69	50	297	32	53
27	108	80	36	1820	180	140	170	65	46	139	33	49
28	878	92	36	720	210	118	139	61	48	107	184	76
29	341	92	35	326	186	113	395	58	43	96	58	282
30	214	78	33	240	---	110	886	54	64	94	43	122
31	168	---	36	184	---	117	---	50	---	98	36	---
TOTAL	5947.7	6331	1528	9456	3953	3401	7701	5421	2509	5101	1984	2116
MEAN	192	211	49.3	305	136	110	257	175	83.6	165	64.0	70.5
MAX	1690	1450	77	3100	417	185	1070	750	258	836	184	449
MIN	9.7	78	33	25	50	75	86	50	38	42	32	24
CFSM	5.68	6.24	1.46	9.02	4.03	3.25	7.59	5.17	2.47	4.87	1.89	2.09
IN.	6.55	6.97	1.68	10.41	4.35	3.74	8.48	5.97	2.76	5.61	2.18	2.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1996, BY WATER YEAR (WY)

	MEAN	1991	1992	1993	1994	1995	1996	1991	1992	1993	1994	1995
MEAN	78.5	136	102	156	69.2	129	290	95.1	65.9	52.3	38.9	35.6
MAX	192	211	135	305	136	160	498	175	123	165	75.2	70.5
(WY)	1996	1996	1994	1996	1996	1995	1993	1996	1992	1996	1994	1996
MIN	40.9	61.2	49.3	53.8	40.2	108	86.7	49.7	34.5	11.1	10.7	13.6
(WY)	1994	1995	1996	1994	1993	1993	1995	1995	1993	1991	1993	1995

e Estimated

DELAWARE RIVER BASIN

01434498 WEST BRANCH NEVERSINK RIVER AT CLARYVILLE, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1991 - 1996	
ANNUAL TOTAL	32240.8		55448.7			
ANNUAL MEAN	88.3		151			
HIGHEST ANNUAL MEAN					106	
LOWEST ANNUAL MEAN					151	1996
HIGHEST DAILY MEAN					70.3	1995
LOWEST DAILY MEAN	1690	Oct 21	3100	Jan 19	3100	Jan 19 1996
ANNUAL SEVEN-DAY MINIMUM	9.3	Sep 7	9.7	Oct 3	6.8	Sep 14 1991
ANNUAL RUNOFF (CFSM)	9.8	Sep 2	25	Jan 10	7.3	Sep 8 1991
ANNUAL RUNOFF (INCHES)	2.61		4.48		3.12	
10 PERCENT EXCEEDS	35.48		61.03		42.42	
50 PERCENT EXCEEDS	178		296		200	
90 PERCENT EXCEEDS	49		87		57	
	13		32		16	

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LOCATION.--Lat 41°53'24", long 74°35'25", Sullivan County, Hydrologic Unit 02040104, on left bank 50 ft downstream from covered bridge, 300 ft upstream from small tributary, 2.2 mi downstream from confluence of East and West Branches, and 2.2 mi southwest of Claryville.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s and maximum (*):

Minimum discharge, 19 ft³/s, Oct. 3, 4, gage height, 6.05 ft.

MEAN	148	208	211	170	171	274	440	251	139	86.5	72.9	86.8
MAX	613	409	565	530	747	681	899	608	483	341	430	336
(WY)	1956	1973	1974	1996	1981	1977	1993	1989	1972	1996	1955	1979
MIN	12.4	18.4	71.9	41.8	48.4	85.8	160	99.1	37.3	19.3	16.8	10.6
(WY)	1965	1965	1981	1961	1980	1958	1981	1995	1991	1991	1953	1964

e Estimated

DELAWARE RIVER BASIN

01435000 NEVERSINK RIVER NEAR CLARYVILLE, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1951 - 1996	
ANNUAL TOTAL	62609		104517			
ANNUAL MEAN	172		286		188	
HIGHEST ANNUAL MEAN					286	
LOWEST ANNUAL MEAN					100	
HIGHEST DAILY MEAN	3320 Oct 21		4970 Jan 19		6090 Feb 20 1981	
LOWEST DAILY MEAN	19 Sep 6		20 Oct 3		7.5 Sep 25 1964	
ANNUAL SEVEN-DAY MINIMUM	20 Sep 3		57 Aug 31		8.9 Sep 21 1964	
ANNUAL RUNOFF (CFSM)	2.58		4.29		2.82	
ANNUAL RUNOFF (INCHES)	34.97		58.38		38.35	
10 PERCENT EXCEEDS	334		552		374	
50 PERCENT EXCEEDS	100		170		113	
90 PERCENT EXCEEDS	30		67		32	

01436000 NEVERSINK RIVER AT NEVERSINK, NY

LOCATION.--Lat 41°49'12", long 74°38'09", Sullivan County, Hydrologic Unit 02040104, on right bank at downstream end of outlet channel, 1,650 ft downstream from Neversink Dam and State Highway 55, 2.0 mi southwest of Neversink, and 2.6 mi upstream from Wynkoop Brook.

DRAINAGE AREA.--92.6 mi².

PERIOD OF RECORD.--October 1941 to current year.

REVISED RECORDS.--WDR NY-72-1: 1961 (M), 1968 (M). WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,255.24 ft above sea level (levels by Board of Water Supply, City of New York). Prior to Jan. 17, 1953, water-stage recorder at site 650 ft downstream at datum 0.20 ft lower. Jan. 17, 1953 to Apr. 16, 1954, water-stage recorder at present site at datum 0.41 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Subsequent to June 1953, entire flow from 92.5 mi² of drainage area controlled by Neversink Reservoir (see Reservoirs in Delaware River Basin). Part of flow diverted for New York City municipal supply (see Reservoirs in Delaware River Basin). Remainder of flow (except for conservation release and spill) impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,300 ft³/s, Nov. 25, 1950, gage height, 11.23 ft, site and datum then in use, from rating curve extended above 2,600 ft³/s on basis of contracted-opening and critical-depth measurements of peak flow; maximum gage height, 11.65 ft, Sept. 27, 1942, site and datum then in use; minimum discharge, no flow for all or part of each day Sept. 22-24, Oct. 26-29, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,790 ft³/s, May 1, gage height, 5.92 ft; minimum, 2.5 ft³/s, Feb. 4, 5, gage height, 2.24 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	14	21	21	26	23	29	2040	e58	77	49	45
2	21	15	21	21	20	22	28	1030	e58	81	49	45
3	21	10	21	21	2.8	22	29	490	e58	64	49	45
4	18	5.1	21	21	2.6	22	29	109	e58	48	51	45
5	14	5.2	21	21	15	23	29	50	58	48	68	45
6	14	5.4	21	19	21	23	29	55	59	48	83	45
7	14	5.5	21	20	20	22	29	57	59	48	80	45
8	14	5.3	21	20	22	22	29	60	60	52	73	45
9	16	5.3	21	20	22	22	29	61	61	49	55	44
10	21	5.4	21	20	21	22	27	63	63	50	48	44
11	21	5.7	21	20	22	22	27	67	83	51	48	44
12	21	6.4	21	20	21	22	28	153	49	51	48	44
13	21	5.9	21	20	21	23	29	218	48	52	48	44
14	22	6.0	21	20	21	24	28	82	48	198	48	46
15	17	6.4	21	21	21	26	28	66	48	760	48	47
16	13	6.0	21	21	21	25	31	62	48	1540	49	45
17	13	5.9	21	21	22	25	214	e62	55	703	51	45
18	13	6.0	21	22	22	25	199	e61	59	151	51	45
19	14	5.9	21	25	21	26	87	e60	51	66	51	44
20	14	5.8	21	27	22	26	33	e60	51	76	51	44
21	16	5.9	21	26	22	27	55	e60	50	51	51	44
22	14	5.7	21	26	23	29	27	e60	69	51	51	44
23	14	5.8	21	26	23	29	29	e60	66	41	60	44
24	14	5.8	21	27	23	29	84	e60	52	40	68	44
25	14	5.8	21	26	22	29	28	e59	52	45	68	44
26	14	5.8	21	27	22	29	28	e59	52	51	60	44
27	14	5.8	21	28	22	28	28	e59	54	49	44	44
28	15	15	21	26	22	29	29	e59	50	49	45	44
29	14	22	21	26	22	29	28	e58	64	49	44	44
30	14	22	21	26	---	29	733	e58	70	49	44	44
31	14	---	21	26	---	29	---	e58	---	49	44	---
TOTAL	509	235.8	651	711	587.4	783	2060	5556	1711	4737	1677	1336
MEAN	16.4	7.86	21.0	22.9	20.3	25.3	68.7	179	57.0	153	54.1	44.5
MAX	30	22	21	28	26	29	733	2040	83	1540	83	47
MIN	13	5.1	21	19	2.6	22	27	50	48	40	44	44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1996, BY WATER YEAR (WY)

	MEAN	53.1	25.1	14.4	14.2	16.2	12.7	89.2	80.1	65.8	70.0	74.7	65.7
MAX	279	198	55.6	33.5	148	29.1	420	319	369	293	305	231	
(WY)	1956	1956	1956	1956	1961	1978	1993	1956	1972	1962	1956	1964	
MIN	14.0	4.76	3.17	4.19	4.24	4.58	10.5	14.6	14.9	14.6	14.1	14.1	
(WY)	1974	1966	1966	1971	1989	1976	1965	1967	1971	1967	1968	1968	

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR			FOR 1996 WATER YEAR			WATER YEARS 1954 - 1996		
ANNUAL TOTAL	12869.8			20554.2					
ANNUAL MEAN	35.3			56.2			48.5		
HIGHEST ANNUAL MEAN							158		
LOWEST ANNUAL MEAN							11.4		
HIGHEST DAILY MEAN	98			2040			3700		
LOWEST DAILY MEAN	5.1			2.6			.00		
ANNUAL SEVEN-DAY MINIMUM	5.3			5.3			.23		
10 PERCENT EXCEEDS	66			63			79		
50 PERCENT EXCEEDS	24			28			22		
90 PERCENT EXCEEDS	14			14			5.0		

e Estimated

DELAWARE RIVER BASIN

01436690 NEVERSINK RIVER AT BRIDGEVILLE, NY

LOCATION.--Lat 41°38'15", long 74°37'04", Sullivan County, Hydrologic Unit 02040104, on left bank 0.1 mi upstream from State Highway 17 bridge, 0.25 mi upstream from Bridgeville. Water-quality sampling site at discharge station.

DRAINAGE AREA.--171 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1992 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,080 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Subsequent to June 1953, entire flow from 92.5 mi² of drainage area controlled by Neversink Reservoir (see Reservoirs in Delaware River basin). Part of flow diverted for New York City municipal supply. Remainder of flow (except for conservation releases and spill) impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master. Satellite gage-height and temperature telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,420 ft³/s, Jan. 19, 1996, gage height, 11.72 ft; minimum, 31 ft³/s, Oct. 2, 3, 1995, gage height, 4.33 ft; minimum daily discharge, 32 ft³/s, Oct. 2, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,420 ft³/s, Jan. 19, gage height, 11.72 ft; minimum, 31 ft³/s, Oct. 2, 3, gage height, 4.33 ft; minimum daily discharge, 32 ft³/s, Oct. 2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	156	161	e90	e310	279	168	3160	104	144	127	67
2	32	222	e160	e90	e230	238	223	1570	99	139	120	65
3	36	245	153	e90	e220	209	187	992	105	180	114	63
4	45	243	165	e88	e150	175	169	513	154	155	149	62
5	246	203	e150	e88	e210	177	163	334	129	138	121	64
6	158	169	e130	e88	e210	217	155	309	109	116	127	66
7	92	159	e120	e85	e200	e200	164	289	108	105	126	95
8	58	214	e110	e85	e190	e180	205	242	101	103	119	213
9	54	163	e100	e85	e190	e170	188	218	111	121	107	191
10	55	137	e98	e85	e180	e160	176	320	622	105	104	118
11	49	148	e95	e83	e170	e150	167	437	598	95	88	97
12	47	1450	e110	e83	e170	e150	160	933	328	90	82	84
13	58	584	e120	e83	e150	e160	318	584	251	906	86	82
14	197	453	e110	e80	e150	e190	457	363	238	768	86	90
15	138	919	e100	e80	e150	314	314	266	174	922	81	84
16	76	681	e95	e80	e140	359	1190	264	149	1530	79	77
17	58	479	e93	e83	e130	258	862	264	161	1030	102	155
18	52	383	e95	e88	e120	245	659	245	245	363	86	666
19	47	334	e100	e1770	e120	252	459	258	205	218	79	354
20	136	305	e110	1120	e130	544	316	213	282	195	76	166
21	1370	284	e120	554	e350	378	282	217	174	151	75	132
22	650	261	e110	e400	e560	312	241	252	146	138	75	136
23	306	221	e100	e340	496	259	236	196	158	110	76	161
24	213	195	e98	e360	587	225	424	169	138	106	132	134
25	221	173	e95	e725	521	213	278	149	133	104	120	134
26	160	160	e93	e410	437	226	243	138	112	441	95	107
27	116	152	e93	1920	369	204	231	136	105	255	79	99
28	300	157	e93	1440	393	180	185	129	121	197	82	159
29	238	182	e93	699	363	180	479	119	114	165	77	699
30	193	166	e98	516	---	180	1280	113	147	126	73	314
31	162	---	e93	415	---	175	---	108	---	123	69	---
TOTAL	5603	9598	3461	12203	7596	7159	10579	13500	5621	9339	3012	4934
MEAN	181	320	112	394	262	231	353	435	187	301	97.2	164
MAX	1370	1450	165	1920	587	544	1280	3160	622	1530	149	699
MIN	32	137	93	80	120	150	155	108	99	90	69	62

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1996, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996
MEAN	112	210	184	255	144
MAX	181	320	237	394	262
(WY)	1996	1996	1994	1996	1994
MIN	79.1	114	112	110	90.2
(WY)	1994	1995	1996	1994	1993

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1992 - 1996
ANNUAL TOTAL	57741	92605	
ANNUAL MEAN	158	253	203
HIGHEST ANNUAL MEAN			253
LOWEST ANNUAL MEAN			141
HIGHEST DAILY MEAN	1450	3160	4170
LOWEST DAILY MEAN	32	32	32
ANNUAL SEVEN-DAY MINIMUM	48	59	48
10 PERCENT EXCEEDS	278	514	377
50 PERCENT EXCEEDS	111	160	120
90 PERCENT EXCEEDS	61	82	74

e Estimated

DELAWARE RIVER BASIN

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01436690 NEVERSINK RIVER AT BRIDGEVILLE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1992 to current year.

INSTRUMENTATION.--Water-temperature satellite telemeter provides 15-minute-interval readings. Prior to May 1993, satellite telemeter provided one-hour-interval readings.

REMARKS.--Interruptions of record were due to malfunction of recording instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 26.5°C, July 15, 1995; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 24.5°C, July 9; minimum, 0.0°C on many days during winter period.

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

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

DELAWARE RIVER BASIN

01436690 NEVERSINK RIVER AT BRIDGEVILLE, NY--Continued

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

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

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LOCATION.--Lat 41°26'28", long 74°36'08", Orange County, Hydrologic Unit 02040104, on right bank just upstream from highway bridge on Graham Road, 0.5 mi downstream from Basher Kill, 0.8 mi southeast of Godeffroy, 1.7 mi south of Cuddebackville, and 8.5 mi upstream from mouth.

PERIOD OF RECORD.--July 1937 to current year. Gage heights and discharge measurements, August to October 1903 and August 1909 to April 1914, and twice-daily figures of discharge for January 1911 to December 1912 (which do not represent daily mean discharges because of diurnal fluctuation) are published in WSP 97, 261, 321, 351, and 381. August to October 1903, published as "Navesink River at Godeffroy, NY."

GAGE.--Water-stage recorder. Datum of gage is 459.66 ft above sea level (levels by Corps of Engineers). Prior to Apr. 30, 1914, nonrecording gages at same site (August to October 1903 at datum 0.98 ft higher).

EXTREMES FOR PERIOD OF RECORD -Maximum discharge, 33,000 ft³/s, Aug. 19, 1955, gage height, 12.49 ft, from rating curve extended above 11,000 ft³/s, on basis of slope-area measurement of peak flow; minimum discharge observed, no flow July 21, 22, 28, 1911, result of regulation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,220 ft³/s, Jan. 19, gage height, 8.86 ft; minimum, 43 ft³/s, Oct. 4.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	421	385	e200	e1000	846	459	4370	244	258	287	149
2	e69	484	393	e190	e840	758	596	2740	228	234	267	155
3	47	555	377	e190	e700	676	533	1940	231	274	244	160
4	e46	524	375	e180	e600	562	485	1320	331	284	264	163
5	e84	466	373	e180	e550	547	458	1030	302	252	238	167
6	558	420	368	e170	e520	625	433	939	258	214	226	168
7	e342	404	351	e170	e500	617	438	908	238	191	225	225
8	e224	475	325	e180	493	e510	533	791	223	183	209	389
9	169	425	e310	e180	510	e490	515	710	222	197	198	399
10	145	388	e300	e200	503	e450	479	801	544	197	197	319
11	e134	385	e290	e220	e470	e440	443	866	918	172	174	272
12	e134	2650	e280	e220	e450	e420	432	1580	522	161	161	254
13	e128	1460	e270	e210	e410	e430	683	1190	416	1250	168	244
14	e149	1220	e270	e200	e370	507	927	931	388	1700	167	285
15	445	2090	e270	e190	e340	719	814	751	303	1460	161	256
16	e312	1770	e260	e190	e320	943	2160	716	257	2000	162	251
17	e220	1290	e260	e200	e310	775	2060	730	261	1660	221	375
18	e176	1040	e260	e210	e300	731	1650	645	443	880	182	1360
19	e159	897	e260	e1200	e300	736	1300	666	364	591	161	973
20	e155	802	e250	e2900	e310	1250	1040	565	536	476	153	586
21	1760	718	e250	e1600	e780	1090	892	514	375	408	149	481
22	1560	656	e250	e1200	e1000	963	795	593	303	336	147	427
23	776	563	e250	e1000	1130	826	705	485	298	298	143	452
24	554	517	e240	e1100	1310	735	1040	421	268	273	185	394
25	518	466	e230	1890	1380	674	834	372	252	262	216	380
26	436	431	e230	1310	1210	659	715	337	222	668	172	335
27	370	412	e220	3370	1080	600	692	327	201	608	156	312
28	631	397	e210	4040	1070	529	586	315	216	426	152	345
29	592	419	e210	2370	1030	513	790	296	208	355	154	1240
30	515	402	e200	1790	---	504	1960	273	238	312	140	741
31	442	---	e200	e1300	---	486	---	259	---	288	142	---
TOTAL	11933	23147	8717	28550	19786	20611	25447	28381	9810	16868	5821	12257
MEAN	385	772	281	921	682	665	848	916	327	544	188	409
MAX	1760	2650	393	4040	1380	1250	2160	4370	918	2000	287	1360
MIN	46	385	200	170	300	420	432	259	201	161	140	141

MEAN	296	379	434	367	411	684	851	542	367	237	228	217
MAX	2033	1094	1227	1053	981	1370	2080	1392	1722	652	1327	705
(WY)	1956	1956	1974	1979	1976	1977	1993	1989	1972	1972	1955	1960
MIN	94.9	86.3	119	72.6	118	297	248	180	111	54.2	76.0	71.1
(WY)	1985	1966	1981	1981	1980	1981	1985	1962	1957	1966	1968	1972

ANNUAL TOTAL	123223		211328			
ANNUAL MEAN	338		577		417	
HIGHEST ANNUAL MEAN					704	1956
LOWEST ANNUAL MEAN					215	1965
HIGHEST DAILY MEAN	3070	Mar 9	4370	May 1	15900	Aug 19 1955
LOWEST DAILY MEAN	46	Oct 4	46	Oct 4	32	Aug 17 1965
ANNUAL SEVEN-DAY MINIMUM	72	Sep 29	150	Aug 27	38	Aug 11 1965
10 PERCENT EXCEEDS	595		1230		873	
50 PERCENT EXCEEDS	247		406		270	
90 PERCENT EXCEEDS	98		170		107	

e Estimated

DELAWARE RIVER BASIN

01438500 DELAWARE RIVER AT MONTAGUE, NJ

LOCATION.--Lat 41°18'33", long 74°47'44", Pike County, PA, Hydrologic Unit 02040104, on right bank 1,500 ft upstream from toll bridge (on U.S. Route 206) between Montague, NJ and Milford, PA, 0.8 mi downstream from Sawkill Creek, and at river mile 246.3.

DRAINAGE AREA.--3,480 mi².

PERIOD OF RECORD.--March 1936 to September 1939 (gage heights only, published as "at Milford, PA"). October 1939 to current year. Monthly discharge only for some periods, published in WSP 1302.

REVISED RECORDS.--WDR-NJ-81-2: 1980.

GAGE.--Water-stage recorder. Datum of gage is 369.93 ft above sea level. Prior to Feb. 9, 1940, nonrecording gage on upstream side of left span of subsequently dismantled bridge at present site at datum 70 ft lower.

REMARKS.--Records good except for estimated daily discharges and periods of shifting control, which are fair. Diurnal fluctuations at medium and low flow caused by powerplants on tributary streams. Flow regulated by Lake Wallenpaupack, Cliff Lake, and by Pepacton, Cannonsville, Swinging Bridge, Toronto, and Neversink Reservoirs (see Delaware River basin, reservoirs in) and smaller reservoirs. Diversion from Pepacton, Cannonsville, and Neversink Reservoirs (see Delaware River basin, diversions). Several measurements of water temperature were made during the year. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of October 10, 1903, reached a stage of 35.5 ft, from floodmark, present datum.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1640	4540	5770	e1800	13900	10800	5950	31800	2510	3240	4590	1630
2	1620	4730	5290	e2200	12200	9260	7210	27900	2210	3550	4840	1740
3	1630	5190	4670	e3200	e10300	8190	7550	21600	2100	3440	4240	1810
4	1660	5750	4690	e2700	e8700	7310	6500	18000	2590	3530	3270	2040
5	2000	4850	5550	e2600	e7500	6680	5960	15700	2520	3130	3180	1990
6	2810	4260	5500	e2900	e7100	6590	5030	14400	2250	3400	3930	2810
7	2710	4340	5310	e2400	e6400	7560	4770	14500	2530	2900	3560	3320
8	2330	4100	4950	e2500	e6200	7090	5770	12900	2280	2730	3340	3200
9	1590	4380	4070	e2800	e6400	6130	6280	11500	2570	3360	3260	3400
10	1270	3900	e3500	e2900	e6300	5030	5830	11600	3830	3280	3670	3110
11	1030	3610	e3600	e2700	e6000	5360	5460	12400	8340	2490	2280	2110
12	1210	12800	e4500	e2900	6200	5230	4870	22500	8640	2500	1990	1880
13	1450	18000	e4300	e2800	5800	5440	5730	26100	11100	5210	3140	1960
14	1620	13300	e3700	e1900	4930	6200	12300	22300	10400	16700	2860	2000
15	2350	17500	e3600	e2200	4580	7410	16700	17700	7740	14000	1990	2010
16	3670	20400	e4100	e3400	4530	9870	26000	14700	5720	15400	2140	1940
17	2850	15300	e3400	e3300	4390	8570	37900	12700	4610	15400	2350	2300
18	2020	12300	e3200	e3200	3700	8100	27900	10900	4960	12000	2240	6510
19	1650	10600	e3900	e17000	3860	8660	21300	9640	4850	10000	1930	7510
20	1430	9750	e3600	118000	4200	11200	16800	9130	5440	8730	2030	4740
21	3740	9170	e3700	42900	8610	14500	13400	8840	5060	7580	1680	3520
22	28000	8600	e3600	25500	14600	12800	11800	8440	4230	6210	1500	2720
23	16700	6760	e2200	18500	16200	10700	11200	7610	3310	6110	2550	2830
24	9490	6010	e2300	14800	16900	8860	11800	6680	3180	5230	2110	3900
25	6820	5350	e2400	20300	19200	8070	11800	5640	3650	4550	2580	3570
26	5410	4870	e2600	16500	16400	8300	11100	4000	3380	6230	2550	3310
27	4520	4830	e3800	24500	13800	8500	9890	3560	3130	8190	2460	3210
28	5000	4890	e3300	57900	12300	7900	8660	3380	2990	6020	1990	3150
29	8350	5140	e3000	36100	12400	7570	8380	3320	2700	5080	2400	4210
30	7140	6720	e2800	25700	---	6830	16300	3190	2360	5240	2550	4740
31	5350	---	e1800	17500	---	6120	---	2600	---	4660	1960	---
TOTAL	139060	241940	118700	483600	263600	250830	350140	395230	131180	200090	85160	93170
MEAN	4486	8065	3829	15600	9090	8091	11670	12750	4373	6455	2747	3106
MAX	28000	20400	5770	118000	19200	14500	37900	31800	11100	16700	4840	7510
MIN	1030	3610	1800	1800	3700	5030	4770	2600	2100	2490	1500	1630

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

	MEAN	3327	5111	6086	5843	5986	9965	12030	7418	4354	3055	2618	2661
MAX	15690	11760	14050	15600	15120	24480	31560	16090	15200	11220	14230	9167	
(WY)	1956	1952	1974	1996	1976	1945	1940	1943	1972	1945	1955	1960	
MIN	807	995	1968	1318	1748	3191	3322	2215	1214	864	715	892	
(WY)	1942	1965	1965	1981	1980	1981	1985	1965	1965	1954	1954	1941	

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1940 - 1996

ANNUAL TOTAL	1567620	2752700	
ANNUAL MEAN	4295	7521	5699
HIGHEST ANNUAL MEAN			8621
LOWEST ANNUAL MEAN			2309
HIGHEST DAILY MEAN	28000	Oct 22	118000
LOWEST DAILY MEAN	1030	Oct 11	1030
ANNUAL SEVEN-DAY MINIMUM	1500	Oct 8	1500
INSTANTANEOUS PEAK FLOW			149000
INSTANTANEOUS PEAK STAGE		26.66	Jan 20
INSTANTANEOUS LOW FLOW		970	Oct 11
10 PERCENT EXCEEDS	8640	16200	12000
50 PERCENT EXCEEDS	3180	4870	3420
90 PERCENT EXCEEDS	1670	2110	1590

e Estimated

a From rating curve extended above 90,000 ft³/s on basis of flood-routing study.

RESERVOIRS IN DELAWARE RIVER BASIN

01416900 PEPACTON RESERVOIR.--Lat 42°04'38", long 74°58'04", Delaware County, Hydrologic Unit 02040102, near release chamber at Downsview Dam on East Branch Delaware River, and 1.6 mi east of Downsview. **DRAINAGE AREA**, 372 mi². **PERIOD OF RECORD**, September 1954 to current year. **REVISED RECORDS**, WDR NY-90-1: Drainage area. **GAGE**, water-stage recorder. Datum of gage is sea level (levels by Board of Water Supply, City of New York).

Reservoir is formed by an earthfill rockfaced dam. Storage began Sept. 15, 1954. Usable capacity 140,190 mil gal between minimum operating level, elevation, 1,152.0 ft and crest of spillway, elevation, 1,280.0 ft. Capacity: at crest of spillway 149,799 mil gal; at minimum operating level, 9,609 mil gal; at sill of diversion tunnel, elevation, 1,143.0 ft, 6,098 mil gal; in dead storage below release outlet, elevation, 1,126.50 ft, 1,898 mil gal. Figures given herein represent total contents. Reservoir impounds water for diversion through East Delaware Tunnel to Rondout Reservoir on Rondout Creek, in Hudson River basin (see elsewhere in this section), for water supply to City of New York; for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master; and for conservation release. No diversion prior to Jan. 6, 1955. Records provided by New York City Department of Environmental Protection.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 154,027 mil gal, Apr. 5, 1960, elevation, 1,282.27 ft; minimum observed (after first filling), 9,575 mil gal, Dec. 26, 1964, elevation, 1,151.92 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 152,791 mil gal, Apr. 17, elevation, 1,281.61 ft; minimum observed, 65,759 mil gal, Oct. 20, elevation, 1,223.37 ft.

01424997 CANNONVILLE RESERVOIR.--Lat 42°03'46", long 75°22'29", Delaware County, Hydrologic Unit 02040101, in emergency gate tower at Cannonville Dam on West Branch Delaware River, and 1.8 mi southeast of Stilesville.

DRAINAGE AREA, 454 mi². **PERIOD OF RECORD**, October 1963 to current year. **REVISED RECORDS**, WDR NY-71-1: 1966. **GAGE**, water-stage recorder. Datum of gage is sea level (levels by Board of Water Supply, City of New York).

Reservoir is formed by an earthfill rockfaced dam. Storage began Sept. 30, 1963. Usable capacity 95,706 mil gal between minimum operating level, elevation, 1,040.0 ft and crest of spillway, elevation, 1,150.0 ft. Capacity, at crest of spillway, 98,618 mil gal; at minimum operating level, 2,912 mil gal; at mouth of inlet channel to diversion tunnel, elevation, 1,035.0 ft, 1,892 mil gal; in dead storage below release outlet elevation, 1,020.5 ft, 328 mil gal. Figures given herein represent total contents. Impounded water is diverted for New York City water supply via West Delaware Tunnel to Rondout Reservoir in Hudson River basin (see elsewhere in this section); is released in Delaware River for downstream low flow augmentation, as directed by the Delaware River Master; and is released for conservation flow in the Delaware River. No diversion prior to January 29, 1964. Records provided by New York City Department of Environmental Protection.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 109,617 mil gal, Mar. 16, 1986, elevation, 1,156.73 ft; minimum observed (after first filling), 11,901 mil gal, Nov. 7, 1968, elevation, 1,066.24 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 104,267 mil gal, May 13, elevation, 1,153.51 ft; minimum observed, 25,674 mil gal, Oct. 14, elevation, 1,087.91 ft.

01433000 SWINGING BRIDGE RESERVOIR.--Lat 41°34'21", long 74°47'00", Sullivan County, Hydrologic Unit 02040104, at dam on Mongaup River, and 1.8 mi northwest of Fowlersville. **DRAINAGE AREA**, 116 mi², excluding Cliff Lake, Lebanon Lake, and Toronto Reservoir. **PERIOD OF RECORD**, January 1930 to current year. **REVISED RECORDS**, WSP 1552: 1951-54. WDR NY-86-1: 1985. WDR NY-90-1: Drainage area. **GAGE**, nonrecording gage, daily readings at 0900.

Datum of gage is sea level (levels by Orange and Rockland Utilities, Inc.). All capacity figures given herein are based on zero storage at minimum operating pool level, 1,010 ft.

Reservoir is formed by an earthfill dam. Storage began Jan. 19, 1930. Usable capacity, 1,436.6 mil ft³ between elevations 1,010.0 ft, minimum operating pool, and 1,071.2 ft, top of flashboards. Capacity below elevation 1,010.0 ft, minimum operating pool, about 212.7 mil ft³. Reservoir is used for storage of water for power. Figures given herein represent contents above 1,010.0 ft. Water is received from Cliff Lake, Lebanon Lake, and Toronto Reservoir. Records provided by Orange and Rockland Utilities, Inc.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 1,461.6 mil ft³, Mar. 14, 1977, elevation, 1,071.8 ft; minimum observed (after first filling), -141.4 mil ft³, Dec. 2, 1938, elevation, 987.5 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 1,375.2 mil ft³, May 15, elevation, 1,069.7 ft; minimum observed, 882.8 mil ft³, Jan. 6, elevation, 1,056.2 ft.

01433100 TORONTO RESERVOIR.--Lat 41°37'15", long 74°49'55", Sullivan County, Hydrologic Unit 02040104, at dam on Black Lake Creek, and 2.5 mi southeast of village of Black Lake. **DRAINAGE AREA**, 22.9 mi². **PERIOD OF RECORD**, January 1926 to current year. **REVISED RECORDS**, WSP 1552: 1951-54. WSP 1702: 1959 (M). WDR NY-85-1: 1984. WDR NY-86-1: 1985. WDR NY-90-1: Drainage area. **GAGE**, nonrecording gage, daily readings at 0900. Datum of gage is sea level (levels by Orange and Rockland Utilities, Inc.). All capacity figures given herein are based on zero storage at minimum operating pool level, 1,165.0 ft.

Reservoir is formed by an earthfill dam completed July 24, 1926. Storage began Jan. 13, 1926. Usable capacity 1,098.2 mil ft³ between elevations 1,165.0 ft, minimum operating pool, and 1,220.0 ft, top of permanent flashboards. Capacity below elevation 1,165.0 ft, minimum operating pool, about 26.8 mil ft³. Reservoir is used for storage of water for power. Figures given herein represent contents above 1,165.0 ft. Records provided by Orange and Rockland Utilities, Inc.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 1,171.2 mil ft³, July 20, 1945, elevation, 1,222.0 ft; minimum observed (after first filling), -26.8 mil ft³, Nov. 15, 1928, elevation, 1,144.5 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 1,130.6 mil ft³, May 13, elevation, 1,220.9 ft; minimum observed, 391.3 mil ft³, Jan. 19, elevation, 1,194.6 ft.

01433200 CLIFF LAKE.--Lat 41°35'00", long 74°47'40", Sullivan County Hydrologic Unit 02040104, at dam on Black Lake Creek, and 2.5 mi northwest of Fowlersville. **DRAINAGE AREA**, 6.46 mi², excluding area above Toronto Reservoir. **PERIOD OF RECORD**, January 1939 to current year. **REVISED RECORDS**, WSP 1552: 1951-54. WDR NY-75-1: 1974(m). WDR NY-86-1: 1985. **GAGE**, nonrecording gage, daily readings at 0900. Datum of gage is sea level (levels by Orange and Rockland Utilities, Inc.). All capacity figures given herein are based on zero storage at minimum operating pool level, 1,043.3 ft.

Reservoir is formed by a concrete gravity-type dam. Storage began Jan. 6, 1939. Usable capacity, 136.06 mil ft³ between elevations 1,043.3 ft, minimum operating pool, and 1,072.0 ft, top of permanent flashboards. Capacity below elevation 1,043.3 ft, minimum operating pool, about 6.54 mil ft³. Reservoir is used for storage of water for power. Water is received from Toronto and Lebanon Lake reservoirs and is discharged through a tunnel into Swinging Bridge Reservoir. Figures given herein represent contents above 1,043.3 ft. Records provided by Orange and Rockland Utilities, Inc.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 145.44 mil ft³, July 30, 31, 1945, elevation, 1,073.1 ft; minimum observed (after first filling), about -6.54 mil ft³, Mar. 16, 1963, elevation, 1,038.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 132.74 mil ft³, May 13, elevation, 1,071.6 ft; minimum observed, 47.92 mil ft³, Jan. 19, elevation, 1,058.8 ft.

DELAWARE RIVER BASIN

RESERVOIRS IN DELAWARE RIVER BASIN--Continued

01435900 NEVERSINK RESERVOIR.--Lat 41°49'27", long 74°38'20", Sullivan County, Hydrologic Unit 02040104, at a gatehouse at Neversink Dam on Neversink River, and 2 mi southwest of Neversink. DRAINAGE AREA, 92.5 mi². PERIOD OF RECORD, June 1953 to current year. REVISED RECORDS, WDR NY-85-1: Drainage area. GAGE, nonrecording gage read daily at 0900. Datum of gage is sea level (levels by Board of Water Supply, City of New York).

Reservoir is formed by an earthfill rockfaced dam. Storage began June 2, 1953. Usable capacity 34,941 mil gal between minimum operating level, elevation, 1,319.0 ft and crest of spillway, elevation, 1,440.0 ft. Capacity at crest of spillway 37,146 mil gal; at minimum operating level, 2,205 mil gal; dead storage below diversion sill and outlet sill, elevation 1,314.0 ft, 1,680 mil gal. Figures given herein represent total contents. Reservoir impounds water for diversion through Neversink-Grahamsville Tunnel to Rondout Reservoir on Rondout Creek, in Hudson River basin, for water supply of City of New York (see elsewhere in this section); for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master; and for conservation release. No diversion prior to Dec. 3, 1953. Records provided by New York City Department of Environmental Protection.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 37,983 mil gal, Apr. 17, 1993, elevation, 1,441.68 ft; minimum observed (after first filling), 1,985 mil gal, Nov. 25, 1964, elevation, 1,316.98 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 37,773 mil gal, May 1, elevation, 1,441.26 ft; minimum observed, 9,941 mil gal, Oct. 13, elevation, 1,364.11 ft.

MONTH-END ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Elevation (feet) ††	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)	Elevation (feet) ††	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)	Elevation (feet) †	Contents (million ft ³)	Change in contents (equivalent in ft ³ /s)
01416900 Pepacton Reservoir				01424997 Cannonsville Reservoir			01433000 Springing Bridge Reservoir		
Sept. 30	1,230.81	74,470		1,090.47	27,691		1,061.3	1,056.0	
Oct. 31	1,231.23	74,981	+ 25.5	1,104.62	40,758	+ 652	1,065.0	1,191.3	+ 50.5
Nov. 30	1,245.29	93,403	+ 950	1,124.86	63,717	+1,184	1,066.2	1,237.0	+ 17.6
Dec. 31	1,244.94	92,913	- 24.5	1,127.83	67,492	+ 188	1,057.1	912.2	-121
CAL YR 1995	-	-	- 70.8	-	-	- 73.1	-	-	- 7.5
Jan. 31	1,273.09	137,367	+2,219	1,151.78	101,483	+1,697	1,069.2	1,355.0	+165
Feb. 29	1,275.86	142,274	+ 262	1,151.09	100,372	- 59.3	1,064.4	1,168.9	- 74.3
Mar. 31	1,277.81	145,790	+ 175	1,150.64	99,648	- 36.1	1,061.9	1,077.3	- 34.2
Apr. 30	1,281.44	152,473	+ 345	1,152.00	101,837	+ 113	1,067.5	1,287.5	+ 81.1
May 31	1,279.52	148,917	- 177	1,149.91	98,481	- 168	1,066.9	1,264.0	- 8.8
June 30	1,278.45	146,955	- 101	1,149.10	97,249	- 63.5	1,065.3	1,202.7	- 23.6
July 31	1,280.08	149,947	+ 149	1,150.05	98,699	+ 72.4	1,066.5	1,248.6	+ 17.1
Aug. 31	1,275.11	140,936	- 450	1,148.04	95,637	- 153	1,062.0	1,080.9	- 62.6
Sept. 30	1,268.39	129,257	- 602	1,144.35	90,073	- 287	1,065.3	1,202.7	+ 47.0
WTR YR 1996	-	-	+ 232	-	-	+ 264	-	-	+ 4.6
Date	Elevation (feet) †	Contents (million ft ³)	Change in contents (equivalent in ft ³ /s)	Elevation (feet) †	Contents (million ft ³)	Change in contents (equivalent in ft ³ /s)	Elevation (feet) ††	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)
01433100 Toronto Reservoir				01433200 Cliff Lake			01435900 Neversink Reservoir		
Sept. 30	1,196.0	422.2		1,061.5	62.21		1,368.73	11,053	
Oct. 31	1,196.9	442.6	+ 7.6	1,064.9	83.02	+ 7.8	1,390.40	17,138	+304
Nov. 30	1,203.3	600.0	+60.7	1,066.9	96.47	+ 5.2	1,410.91	24,376	+373
Dec. 31	1,201.7	558.9	-15.4	1,060.4	56.12	-15.1	1,405.72	22,406	- 98.3
CAL YR 1995	-	-	+ 5.5	-	-	- 0.8	-	-	- 15.6
Jan. 31	1,205.0	644.5	+32.0	1,070.7	125.33	+25.8	1,431.02	32,866	+522
Feb. 29	1,210.4	792.2	+58.9	1,067.7	102.20	- 9.2	1,434.59	34,531	+ 88.8
Mar. 31	1,214.3	907.4	+43.0	1,062.1	65.66	-13.6	1,432.75	33,666	- 43.2
Apr. 30	1,219.1	1,066.7	+61.5	1,067.5	100.76	+13.5	1,441.26	37,773	+212
May 31	1,220.1	1,101.8	+13.1	1,067.4	100.04	- 0.3	1,437.67	36,004	- 88.3
June 30	1,219.8	1,091.2	- 4.1	1,065.8	88.94	- 4.3	1,437.62	35,980	- 1.24
July 31	1,216.3	971.4	-44.7	1,069.0	111.86	+ 8.5	1,438.86	36,584	+ 30.1
Aug. 31	1,210.3	789.4	-67.9	1,066.8	95.78	- 6.0	1,423.88	29,690	-344
Sept. 30	1,208.0	725.2	-24.8	1,066.5	93.71	- 0.8	1,414.69	25,866	-197
WTR YR 1996	-	-	+ 9.6	-	-	+ 1.0	-	-	+ 62.6

†† Elevation at 0800 hours on first day of following month.

† Elevation at 0900 hours.

DELAWARE RIVER BASIN

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DIVERSIONS FROM DELAWARE RIVER BASIN

01415200 Diversion from Pepacton Reservoir (see preceding pages) on East Branch Delaware River to Rondout Reservoir on Rondout Creek, in Hudson River basin, for municipal supply of City of New York. No diversion prior to Jan. 6, 1955. Records provided by Bureau of Water Resources Development and Department of Environmental Protection, City of New York.

REVISED RECORDS, WDR NY-71-1: 1970. WDR NY-81-1: 1980.

014239000 Diversion from Cannonsville Reservoir (see preceding pages) on West Branch Delaware River to Rondout Reservoir on Rondout Creek, in Hudson River basin, for municipal supply of City of New York. No diversion prior to Jan. 29, 1964. Records provided by Bureau of Water Resources Development and Department of Environmental Protection, City of New York.

REVISED RECORDS, WDR NY-81-1: 1980.

01435800 Diversion from Neversink Reservoir (see preceding pages) on Neversink River to Rondout Reservoir on Rondout Creek, in Hudson River basin, for municipal supply of City of New York. No diversion prior to Dec. 3, 1953. Records provided by Bureau of Water Resources Development and Department of Environmental Protection, City of New York.

REVISED RECORDS, WDR NY-82-1: 1976, 1977.

DIVERSION, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Month	<u>01415200</u> <u>Pepacton Reservoir</u>	<u>01423900</u> <u>Cannonsville Reservoir</u>	<u>01435800</u> <u>Neversink Reservoir</u>
October.....	708	0.0	122
November.....	338	83.3	106
December.....	461	351	209
CAL YR 1995	533	306	196
January.....	277	276	134
February.....	641	153	234
March.....	694	395	311
April.....	277	352	334
May.....	316	277	387
June.....	631	336	210
July.....	464	167	252
August.....	627	62.8	439
September.....	699	202	324
WTR YR 1996	511	221	255

STREAMS TRIBUTARY TO LAKE ONTARIO

04250200 SALMON RIVER AT PINEVILLE, NY

LOCATION.--Lat 43°32'00", long 76°02'20", Oswego County, Hydrologic Unit 04140102, on right bank 0.8 mi upstream from Trout Brook, 2.3 mi northwest of Altmar, and 30 ft downstream from County Highway 48 in Pineville.

DRAINAGE AREA.--238 mi².

PERIOD OF RECORD.--November 1992 to current year.

GAGE.--Water-stage recorder. Datum of gage is 477.54 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Seasonal regulation of flow by Salmon River Reservoir at Redfield. Extensive diurnal fluctuation caused by powerplants at Bennett Bridge and Lighthouse Hill operated by Niagara Mohawk Power Corporation. Several measurements of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,060 ft³/s, Apr. 11, 1993, gage height, 11.63 ft; minimum daily, 64 ft³/s, Aug. 21, 1995.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 24,800 ft³/s, Dec. 29, 1984, gage height, 16.36 ft, on basis of contracted-opening measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,910 ft³/s, Apr. 23, gage height, 10.70 ft; minimum daily, 70 ft³/s, Aug. 28.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	520	1000	835	e320	e920	1680	982	2850	347	119	168	449
2	503	1020	705	e320	e900	1740	963	2360	343	105	475	455
3	382	1210	703	e320	e850	1690	958	2270	337	140	1130	460
4	397	1250	717	e320	e800	1660	1420	2220	320	156	985	503
5	392	1230	690	e320	e800	1250	1360	2060	431	152	457	519
6	708	1170	680	e310	e820	1150	913	1530	441	131	127	455
7	686	1100	667	e310	e850	1220	956	1000	473	139	318	530
8	646	1120	e650	e310	896	1490	1020	673	489	101	202	544
9	602	1160	e620	e310	959	1450	1460	515	483	116	96	577
10	518	1140	e620	e300	1050	1380	1430	582	783	106	94	574
11	446	1150	e620	e290	1120	1160	1040	2370	2340	324	91	560
12	433	1690	e600	e290	1650	867	1050	2480	1980	79	91	553
13	540	2100	e620	e290	1600	840	1220	2360	2070	79	90	565
14	540	1700	651	e290	1510	765	2030	1740	2020	80	88	568
15	600	1870	637	e290	1080	624	1950	1180	982	108	85	557
16	736	1800	639	e300	e950	626	2200	888	919	128	86	556
17	731	1750	647	e320	e850	619	2840	654	439	441	215	561
18	597	1720	644	331	e850	636	2620	513	289	453	76	557
19	687	1710	668	920	e880	862	2460	510	306	526	75	549
20	686	1700	656	2360	e1000	926	2420	700	322	934	111	544
21	1050	1700	e550	1690	1940	1010	2630	1980	334	902	142	541
22	2490	1670	e480	1120	2140	1090	5310	2410	308	869	78	570
23	1370	902	e400	1140	1920	1040	6510	2120	316	848	78	663
24	1240	845	e340	1890	2110	1030	5930	1130	312	253	77	635
25	1100	839	e330	1850	1900	956	3450	845	307	114	88	600
26	1070	839	e330	1640	1790	787	2420	633	275	112	124	563
27	1440	848	e330	1780	1730	760	2250	517	106	115	109	553
28	1090	859	e330	1820	1840	601	2100	501	110	454	70	614
29	1090	866	e330	1640	1720	1400	2070	453	784	150	125	785
30	1100	885	e320	986	---	1390	2260	358	742	115	113	690
31	1080	---	e320	975	---	945	---	353	---	118	485	---
TOTAL	25470	38843	17329	25352	37425	33644	66222	40755	19708	8467	6549	16850
MEAN	822	1295	559	818	1291	1085	2207	1315	657	273	211	562
MAX	2490	2100	835	2360	2140	1740	6510	2850	2340	934	1130	785
MIN	382	839	320	290	800	601	913	353	106	79	70	449

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1996, BY WATER YEAR (WY)

	1993	1994	1995	1996
MEAN	771	964	829	914
MAX	822	1295	1140	1330
(WY)	1996	1996	1994	1993
MIN	673	680	559	548
(WY)	1995	1994	1996	1995

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1993 - 1996

	1995 CALENDAR YEAR	1996 WATER YEAR	1993 - 1996
ANNUAL TOTAL	207729	336614	
ANNUAL MEAN	569	920	749
HIGHEST ANNUAL MEAN			920
LOWEST ANNUAL MEAN			548
HIGHEST DAILY MEAN	2520	Jan 17	6510
LOWEST DAILY MEAN	64	Aug 21	70
ANNUAL SEVEN-DAY MINIMUM	65	Aug 19	89
10 PERCENT EXCEEDS	1150		1960
50 PERCENT EXCEEDS	450		688
90 PERCENT EXCEEDS	71		126

e Estimated

STREAMS TRIBUTARY TO LAKE ONTARIO

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04252500 BLACK RIVER NEAR BOONVILLE, NY

LOCATION.--Lat 43°30'42", long 75°18'25", Oneida County, Hydrologic Unit 04150101, on left bank at downstream side of bridge on Moose River Road, 0.8 mi upstream from Sugar River, and 2 mi northeast of Boonville.

DRAINAGE AREA.--304 mi².

PERIOD OF RECORD.--January to February 1911 (monthly discharges only, published in WSP 1307), March 1911 to current year.

REVISED RECORDS.--WSP 784: 1934. WSP 1084: 1912(M), 1913, 1917-1919(M), 1922(M), 1924(M), 1926(M), 1928(M), 1930(M), 1933(M). WSP 1307: 1914(M). WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 935.50 ft above sea level. Prior to Sept. 27, 1933, nonrecording gage at same site and datum.

REMARKS.--Records good except those below 800 ft³/s, which are fair, and those for estimated daily discharges, which are poor. Occasional regulation by several headwater reservoirs. Forestport feeder diverts water from State Pond at Forestport 9 mi upstream. That portion of diverted water which does not pass Black River Canal (flowing south), returns to Black River downstream from station through Mill Creek sluiceway. Slight diurnal fluctuation at medium and low flow caused by mill upstream from station. Telephone and satellite gage-height telemeters at station.

AVERAGE DISCHARGE.--85 years, 718 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,800 ft³/s, Apr. 18, 1982, Dec. 30, 1984, gage heights, 11.31 ft and 11.41 ft, respectively; maximum gage height, 13.10 ft, Feb. 21, 1981 (ice jam); minimum observed discharge, about 5 ft³/s, Aug. 26, 1918, gage height, 2.40 ft; minimum daily, 7 ft³/s, Aug. 26, 1918.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 22	1530	*7,680	10.03	Apr. 17	0300	4,200	8.65
Jan. 19	1745	ice jam	*10.72	Apr. 24	1545	5,060	9.07
Jan. 20	2100	4,730	8.93	May 12	1900	4,300	8.72

Minimum discharge observed, 162 ft³/s, Jan. 16; minimum daily discharge, about 170 ft³/s, Jan. 16.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	271	981	735	e310	799	1070	1250	2400	487	484	504	200
2	199	990	737	e300	e750	989	1350	2190	470	425	429	197
3	175	1290	608	e290	e700	e750	1250	1640	433	467	417	195
4	268	1630	763	e280	e650	e680	1120	1530	454	1790	410	193
5	565	1430	622	e270	e620	e640	1010	1530	746	2520	336	184
6	1090	1170	582	e250	e590	e620	950	1360	699	1690	329	188
7	1240	1060	594	e240	e590	e600	1070	1190	753	1010	306	198
8	912	1110	542	e230	e600	e590	1170	1020	1030	776	290	247
9	716	1110	524	e220	e620	e580	1030	872	2120	583	318	573
10	559	971	e500	e220	e650	e570	984	1080	2890	489	337	568
11	433	908	e470	e220	e700	e570	890	2760	2660	433	309	456
12	380	1880	e430	e210	e680	573	1050	4010	2290	394	286	353
13	346	2560	e400	e200	e620	571	1380	3810	1820	432	264	290
14	389	1800	e390	e190	e570	608	2080	2680	1370	675	242	330
15	1750	1510	e380	e180	e550	746	2090	1800	871	1040	238	314
16	2610	1490	e350	e170	e500	818	3230	1300	716	1530	341	341
17	2280	1240	e360	e190	e450	714	3890	1420	613	992	421	320
18	1630	1000	e370	e300	e430	673	2850	1280	544	691	351	299
19	1160	943	e390	e850	e410	773	2350	1590	583	703	297	275
20	845	913	e380	e2400	e400	1010	2380	1350	763	1320	263	228
21	1020	848	e370	4120	e480	1060	2850	1430	788	814	727	223
22	5970	840	e360	2600	e800	962	3180	1780	660	640	656	238
23	4140	817	e360	1740	e1400	840	3620	1390	573	477	436	752
24	2080	721	e350	1550	e1900	748	4750	1110	526	407	424	717
25	1400	585	e340	2030	e2100	802	3700	953	640	389	337	492
26	1140	713	e340	1960	2400	1330	2720	846	699	560	275	404
27	1040	659	e330	1740	1650	1350	2640	760	588	527	262	333
28	1170	739	e320	1550	1370	1050	2260	725	494	456	250	579
29	1400	892	e320	1370	1230	964	1730	584	436	390	231	2260
30	1230	651	e310	1260	---	982	1700	551	467	385	212	1820
31	1080	---	e310	1080	---	1090	---	524	---	484	211	---
TOTAL	39488	33451	13837	28520	25209	25323	62524	47465	28183	23973	10709	13767
MEAN	1274	1115	446	920	869	817	2084	1531	939	773	345	459
MAX	5970	2560	763	4120	2400	1350	4750	4010	2890	2520	727	2260
MIN	175	585	310	170	400	570	890	524	433	385	211	184

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1996, BY WATER YEAR (WY)

	MEAN	539	742	727	636	570	1017	1893	985	506	354	283	384
MAX	1695	1480	1759	1837	1410	2394	3313	2402	1707	980	760	1157	
(WY)	1946	1960	1974	1913	1981	1921	1993	1972	1917	1947	1986	1975	
MIN	55.0	149	260	158	167	302	692	328	55.0	55.4	41.5	49.4	
(WY)	1915	1931	1961	1931	1931	1931	1995	1941	1920	1913	1913	1913	

e Estimated

STREAMS TRIBUTARY TO LAKE ONTARIO

04252500 BLACK RIVER NEAR BOONVILLE, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1911 - 1996	
ANNUAL TOTAL	229551		352449		719	
ANNUAL MEAN	629		963		1119	1976
HIGHEST ANNUAL MEAN					448	1931
LOWEST ANNUAL MEAN					11100	Dec 30 1984
HIGHEST DAILY MEAN	5970	Oct 22	5970	Oct 22	7.0	Aug 26 1918
LOWEST DAILY MEAN	59	Aug 25	170	Jan 16	19	Aug 22 1918
ANNUAL SEVEN-DAY MINIMUM	66	Aug 20	194	Sep 1	1540	
10 PERCENT EXCEEDS	1400		2080		470	
50 PERCENT EXCEEDS	416		699		167	
90 PERCENT EXCEEDS	138		271			

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LOCATION.--Lat 43°44'50", long 75°20'05", Lewis County, Hydrologic Unit 04150101, on right bank at downstream side of highway bridge on Donnattsburg Road at Donnattsburg, 1.2 mi downstream from Chase Lake Outlet, 4.2 mi northeast of Glenfield, and 5.0 mi upstream from mouth.

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

GAGE.--Water-stage recorder. Datum of gage is 972.84 ft above sea level. Prior to Sept. 16, 1949, nonrecording gage at same site and datum.

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

AVERAGE DISCHARGE.--54 years, 196 ft³/s, 30.01 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,420 ft³/s, Dec. 30, 1984, gage height, 13.34 ft, from rating curve extended above 2,100 ft³/s on basis of slope-area measurement of peak flow; minimum observed discharge, 18 ft³/s, Sept. 17, 1948, Aug. 4, 5, 1949, gage height, 2.85 ft.

EXTREMES 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)
Oct. 22	0930	*3,360	*8.62	Apr. 21	2100	1,540	6.68
Jan. 20	--	a2,100	ice jam	May 12	2115	1,490	6.59
Apr. 17	0115	1,410	6.49	July 16	1030	1,310	6.36

Minimum discharge, 34 ft³/s, Sept. 4, 5, 6, 7, 8, gage height, 3.45 ft.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	229	170	e70	e240	276	340	662	123	80	226	38
2	39	235	167	e68	e210	241	363	599	110	74	167	37
3	36	316	181	e68	e180	206	326	415	100	69	120	35
4	44	451	155	e65	e160	219	279	374	96	345	97	35
5	58	348	157	e60	e150	e180	244	381	97	900	82	34
6	162	250	146	e58	e140	e170	227	334	96	487	72	34
7	333	209	e130	e56	e130	e150	246	284	120	291	65	34
8	234	206	e120	e54	e120	e140	271	239	330	206	60	35
9	155	200	e110	e55	e130	e130	243	210	281	156	59	56
10	116	172	e100	e56	e140	e120	224	235	725	119	56	69
11	92	162	e100	e57	e150	e120	204	609	896	101	54	62
12	78	439	e92	e58	e150	e110	256	1240	455	88	51	54
13	68	591	e86	e56	e150	e110	389	1150	299	79	49	49
14	67	360	e80	e55	e140	e120	638	653	290	78	48	49
15	315	309	e82	e55	e130	e130	634	472	247	162	47	51
16	504	277	e90	e55	e120	e150	937	368	184	1060	61	51
17	324	237	e88	e70	e110	e160	1210	314	146	493	84	51
18	227	205	e86	e120	e100	e150	689	280	123	225	77	49
19	165	188	e86	e230	e95	e150	556	467	110	174	65	46
20	122	174	e86	e1300	e90	e150	700	449	106	263	57	42
21	352	165	e88	1300	e110	e190	1190	569	105	206	55	40
22	2600	163	e86	734	e180	e180	1250	855	103	143	52	42
23	1060	156	e82	470	e300	e170	1240	482	98	110	51	57
24	446	140	e82	377	e430	169	1450	342	92	92	61	73
25	331	e130	e80	488	773	164	928	267	91	89	61	67
26	279	e130	e78	498	692	384	635	215	105	108	52	62
27	221	135	e76	475	457	446	770	185	91	119	47	56
28	209	161	e72	510	341	321	609	163	82	98	44	65
29	279	231	e72	436	295	261	425	146	75	83	42	228
30	323	186	e70	339	---	260	383	138	75	77	41	241
31	274	---	e70	251	---	291	---	136	---	85	39	---
TOTAL	9555	7155	3168	8544	6413	6018	17856	13233	5851	6660	2142	1842
MEAN	308	238	102	276	221	194	595	427	195	215	69.1	61.4
MAX	2600	591	181	1300	773	446	1450	1240	896	1060	226	241
MIN	36	130	70	54	90	110	204	136	75	69	39	34
CFSM	3.47	2.69	1.15	3.11	2.49	2.19	6.71	4.81	2.20	2.42	.78	.69
IN.	4.01	3.00	1.33	3.58	2.69	2.52	7.49	5.55	2.45	2.79	.90	.77

MEAN	162	227	205	161	150	278	518	259	129	86.2	76.6	107
MAX	509	427	524	319	391	707	1014	712	325	257	208	309
(WY)	1946	1989	1985	1949	1981	1945	1993	1971	1972	1947	1981	1981
MIN	26.4	74.8	59.3	45.1	44.1	95.5	147	77.3	40.1	26.3	25.4	23.1
(WY)	1964	1967	1961	1961	1963	1970	1995	1987	1949	1966	1944	1964

e Estimated

STREAMS TRIBUTARY TO LAKE ONTARIO

04256000 INDEPENDENCE RIVER AT DONNATTSBURG, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1942 - 1996	
ANNUAL TOTAL	55051		88437			
ANNUAL MEAN	151		242		196	
HIGHEST ANNUAL MEAN					292	
LOWEST ANNUAL MEAN					132	
HIGHEST DAILY MEAN					5410	
LOWEST DAILY MEAN	20	Aug 25	34	Sep 5	18	
ANNUAL SEVEN-DAY MINIMUM	22	Aug 20	35	Sep 2	20	
ANNUAL RUNOFF (CFSM)	1.70		2.72		2.21	
ANNUAL RUNOFF (INCHES)	23.09		37.09		30.09	
10 PERCENT EXCEEDS	309		506		419	
50 PERCENT EXCEEDS	106		150		120	
90 PERCENT EXCEEDS	31		54		42	

STREAMS TRIBUTARY TO LAKE ONTARIO

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04256500 STILLWATER RESERVOIR NEAR BEAVER RIVER, NY

LOCATION.--Lat 43°53'50", long 75°03'05", Herkimer County, Hydrologic Unit 04150101, in gatehouse at Stillwater Dam on Beaver River, 2.5 mi upstream from Moshier Creek, and 7.5 mi west of Beaver River Post Office.

DRAINAGE AREA.--171 mi².

PERIOD OF RECORD.--May 1908 to current year. Prior to February 1925, month-end contents only, published in WSP 1307. February 1925 to September 1937, published in WSP 824.

REVISED RECORDS.--WDR NY-85-1: Drainage area.

GAGE.--Nonrecording gage read once daily and prior to reservoir gate changes. Datum of gage is sea level, adjustment of 1912.

REMARKS.--Reservoir originally formed about 1885; enlarged at various times and in 1924 enlarged to a usable capacity of 4,623 mil ft³ between elevations 1,650.3 ft and 1,679.3 ft (top of 24-inch flashboards in place throughout year). Elevation of gate sill of lowest outlet, 1,642.3 ft. Capacity below elevation 1,650.3 ft, 90 mil ft³, is included in records presented herein, but is not ordinarily available for release. Reservoir is used to regulate flow of Beaver and Black Rivers for flood control, power development, and general public welfare. Satellite gage-height and rain-gage telemeter at station.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum observed elevation, 1,680.08 ft, May 20, 1969, contents, 4,939 mil ft³; minimum observed since first filling, 1,644.80 ft, Mar. 25-27, 1949, contents, 8 mil ft³.

EXTREMES FOR CURRENT YEAR.--Maximum observed elevation, 1,679.48 ft, Apr. 28, June 12, contents, 4,765 mil ft³; minimum observed, 1,668.73 ft, Oct. 4, contents, 2,179 mil ft³.

Capacity table (elevation, in feet, and
contents, in millions of cubic feet)

1,658.0	604	1,670.0	2,431
1,660.0	821	1,675.0	3,556
1,665.0	1,518	1,680.0	4,916

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY OBSERVATION AT 08:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1668.82	1675.12	1675.65	1672.00	1672.75	1672.16	1671.06	1679.18	1678.48	1677.46	1677.03	1672.06
2	1668.79	1675.20	1675.62	1671.85	1672.70	1672.13	1671.28	1679.18	1678.42	1677.38	1676.95	1671.82
3	1668.76	1675.35	1675.54	1671.67	1672.63	1672.09	1671.47	1679.08	1678.31	1677.26	1676.85	1671.61
4	1668.73	1675.49	1675.45	1671.54	1672.54	1672.02	1671.63	1678.94	1678.21	1677.23	1676.74	1671.45
5	1668.76	1675.63	1675.39	1671.36	1672.43	1671.92	1671.80	1678.82	1678.12	1677.56	1676.61	1671.32
6	1668.89	1675.72	1675.30	1671.18	1672.33	1671.88	1671.93	1678.66	1678.02	1677.75	1676.47	1671.21
7	1669.03	1675.79	1675.23	1671.00	1672.23	1671.80	1672.07	1678.46	1677.90	1677.83	1676.33	1671.10
8	1669.17	1675.84	1675.16	1670.82	1672.09	1671.72	1672.23	1678.27	1678.06	1677.84	1676.17	1670.96
9	1669.25	1675.90	1675.06	1670.63	1672.03	1671.63	1672.38	1678.13	1678.18	1677.85	1676.03	1670.87
10	1669.30	1675.94	1674.96	1670.45	1671.92	1671.51	1672.51	1677.97	1678.71	1677.86	1675.89	1670.76
11	1669.32	1675.96	1674.86	1670.27	1671.78	1671.37	1672.64	1677.93	1679.37	1677.86	1675.73	1670.69
12	1669.35	1676.07	1674.74	1670.07	1671.67	1671.24	1672.76	1678.22	1679.48	1677.85	1675.57	1670.59
13	1669.37	1676.35	1674.62	1669.87	1671.54	1671.10	1672.94	1678.62	1679.38	1677.82	1675.41	1670.48
14	1669.37	1676.50	1674.48	1669.67	1671.39	1670.96	1673.18	1678.79	1679.26	1677.81	1675.25	1670.34
15	1669.43	1676.64	1674.41	1669.47	1671.24	1670.83	1673.55	1678.87	1679.21	1677.79	1675.10	1670.21
16	1669.67	1676.65	1674.29	1669.27	1671.08	1670.72	1673.87	1678.91	1679.08	1678.15	1674.94	1670.06
17	1669.92	1676.69	1674.17	1669.06	1670.92	1670.57	1674.53	1678.92	1678.88	1678.31	1674.82	1669.93
18	1670.13	1676.67	1674.04	1668.91	1670.77	1670.49	1675.09	1678.90	1678.77	1678.29	1674.66	1669.79
19	1670.24	1676.62	1673.90	1668.83	1670.66	1670.34	1675.43	1678.97	1678.68	1678.23	1674.48	1669.66
20	1670.35	1676.56	1673.77	1669.70	1670.43	1670.21	1675.74	1679.03	1678.59	1678.24	1674.32	1669.55
21	1670.49	1676.47	1673.64	1670.46	1670.34	1670.08	1676.18	1679.04	1678.45	1678.18	1674.17	1669.43
22	1671.64	1676.39	1673.50	1670.84	1670.53	1670.08	1676.99	1679.43	1678.34	1678.12	1673.97	1669.32
23	1672.74	1676.33	1673.35	1671.04	1670.84	1670.10	1677.64	1679.47	1678.21	1678.02	1673.77	1669.29
24	1673.20	1676.24	1673.22	1671.22	1671.10	1670.10	1678.43	1679.38	1678.10	1677.92	1673.64	1669.18
25	1673.50	1676.14	1673.07	1671.45	1671.55	1670.09	1678.94	1679.26	1678.00	1677.78	1673.45	1669.12
26	1673.78	1676.03	1672.93	1671.70	1671.89	1670.15	1679.17	1679.12	1677.93	1677.69	1673.25	1669.00
27	1674.01	1675.93	1672.78	1671.88	1672.10	1670.33	1679.35	1678.97	1677.79	1677.58	1673.07	1668.89
28	1674.23	1675.85	1672.64	1672.22	1672.15	1670.43	1679.48	1678.77	1677.66	1677.45	1672.87	1668.89
29	1674.45	1675.80	1672.47	1672.45	1672.16	1670.57	1679.43	1678.67	1677.58	1677.33	1672.66	1669.00
30	1674.74	1675.73	1672.32	1672.62	---	1670.72	1679.27	1678.61	1677.51	1677.18	1672.44	1669.17
31	1674.98	---	1672.16	1672.73	---	1670.88	---	1678.56	---	1677.06	1672.28	---
MEAN	1670.79	1676.05	1674.15	1670.85	1671.65	1670.97	1674.77	1678.81	1678.42	1677.76	1674.87	1670.19
MAX	1674.98	1676.69	1675.65	1672.73	1672.75	1672.16	1679.48	1679.47	1679.48	1678.31	1677.03	1672.06
MIN	1668.73	1675.12	1672.16	1668.83	1670.34	1670.08	1671.06	1677.93	1677.51	1677.06	1672.28	1668.89
†	3574	3727	2866	3020	2890	2639	4687	4486	4200	4081	2884	2281
††	+513	+59.0	-321	+57.5	-51.9	-93.7	+790	-75.0	-110	-44.4	-447	-233
CAL YR 1995	MEAN 1673.64	MAX 1676.91	MIN 1668.73	†† +9.42								
WTR YR 1996	MEAN 1674.11	MAX 1679.48	MIN 1668.73	†† +2.59								

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

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

STREAMS TRIBUTARY TO LAKE ONTARIO

04258000 BEAVER RIVER AT CROGHAN, NY

LOCATION.--Lat 43°53'50", long 75°24'16", Lewis County, Hydrologic Unit 04150101, on left bank 1,200 ft upstream from Black Creek, and 0.5 mi west of Croghan.

DRAINAGE AREA.--291 mi².

PERIOD OF RECORD.--September 1930 to current year.

REVISED RECORDS.--WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 806.20 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by Stillwater Reservoir (see station 04256500). Between Stillwater Dam and this station, flow is further regulated by several powerplant ponds. Diurnal fluctuation at low and medium flow.

AVERAGE DISCHARGE.--66 years, 614 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,100 ft³/s, May 21, 1969, gage height, 6.98 ft; minimum, 11 ft³/s, Jan. 22, 29, Feb. 4, 1967, gage height, 0.63 ft; minimum daily, 22 ft³/s, July 18, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,850 ft³/s, Oct. 22, gage height, 5.38 ft; minimum, 134 ft³/s, Oct. 21, gage height, 1.62 ft; minimum daily discharge, 197 ft³/s, Oct. 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	207	583	856	691	814	770	380	2260	870	509	717	665
2	201	625	e870	690	904	681	502	2040	671	584	811	628
3	197	611	e920	790	954	810	440	1990	756	631	716	736
4	211	652	e840	882	888	803	506	1920	746	872	659	651
5	232	555	e800	817	847	733	338	1790	744	1450	670	405
6	320	456	639	732	832	758	290	1880	807	1380	711	465
7	439	485	703	731	817	687	365	1670	710	1040	655	498
8	368	491	766	690	682	797	391	1530	806	979	554	504
9	284	508	777	640	778	984	408	1500	811	957	613	508
10	269	456	768	653	621	844	331	1480	972	419	659	568
11	234	589	787	658	733	787	356	1510	1640	389	604	506
12	206	700	792	652	766	842	396	2330	1910	397	636	549
13	202	674	767	669	806	782	430	1740	1550	445	627	611
14	231	811	686	670	713	788	658	1540	1690	490	647	315
15	433	916	741	651	698	789	697	1490	1490	633	639	260
16	750	938	755	655	705	741	809	1260	1460	956	670	261
17	500	867	754	697	739	747	1020	1100	1440	984	643	291
18	308	783	753	704	569	743	1090	1080	1170	950	675	338
19	255	854	705	1630	654	792	872	1240	1050	959	655	318
20	300	839	688	2360	773	887	671	1310	945	970	649	334
21	413	749	709	2010	1110	598	875	1720	870	945	658	321
22	2040	767	693	1220	1040	619	1560	2170	824	857	628	354
23	1850	815	692	1070	1050	558	1600	2010	856	810	599	345
24	983	824	640	1050	1040	615	1900	1960	942	871	616	303
25	755	740	661	1020	777	565	2020	1470	942	747	654	319
26	334	646	785	724	937	570	1770	1450	832	612	697	368
27	286	787	680	963	904	385	1470	1280	821	575	737	301
28	331	893	690	986	976	378	1800	1270	753	561	668	320
29	300	740	679	947	931	428	1960	1230	560	634	625	406
30	284	840	670	660	---	533	2040	1110	506	670	611	438
31	557	---	682	807	---	422	---	944	---	698	625	---
TOTAL	14280	21194	22948	28119	24058	21436	27945	49274	30144	23974	20328	12886
MEAN	461	706	740	907	830	691	931	1589	1005	773	656	430
MAX	2040	938	920	2360	1110	984	2040	2330	1910	1450	811	736
MIN	197	456	639	640	569	378	290	944	506	389	554	260

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1996, BY WATER YEAR (WY)

	MEAN	516	582	651	678	696	700	809	717	517	489	518	502
	MAX	944	1144	1190	1486	1519	1490	1528	1977	1184	863	913	824
	(WY)	1946	1989	1978	1978	1973	1976	1954	1943	1947	1972	1986	1986
	MIN	263	159	175	315	292	321	298	199	244	174	363	327
	(WY)	1961	1940	1940	1961	1956	1967	1995	1941	1941	1965	1967	1972

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1930 - 1996
ANNUAL TOTAL	184007	296586	
ANNUAL MEAN	504	810	614
HIGHEST ANNUAL MEAN			916
LOWEST ANNUAL MEAN			361
HIGHEST DAILY MEAN	2370	Jan 16	4700
LOWEST DAILY MEAN	188	Jul 15	22
ANNUAL SEVEN-DAY MINIMUM	216	Sep 29	37
10 PERCENT EXCEEDS	786		970
50 PERCENT EXCEEDS	447		579
90 PERCENT EXCEEDS	276		281

e Estimated

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LOCATION.--Lat 43°59'08", long 75°55'30", Jefferson County, Hydrologic Unit 04150101, on right bank 200 ft downstream from Vanduzee Street Bridge at Watertown, and 3.5 mi upstream from Philomel Creek.

DRAINAGE AREA.--1,864 mi²

PERIOD OF RECORD.--July 1920 to current year.

REVISED RECORDS.--WDR NY-77-1: 1974. WDR NY-85-1: Drainage area. WDR NY-93-1: 1955, 1958-60, 1962-64, 1969, 1971-72, 1974, 1976-77, 1979-82, 1984-87, 1989-92.

GAGE.--Water-stage recorder. Datum of gage is 373.88 ft above sea level. Prior to Sept. 3, 1921, nonrecording gage, and from Sept. 3, 1921 to Mar. 15, 1977, recording gage at same site at datum 1.00 ft higher. Prior to June 13, 1992, at site 200 ft upstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by Stillwater Reservoir (see station 04256500), Fulton Chain of Lakes, and other reservoirs. Extensive diurnal fluctuation at low and medium flow caused by mills and powerplants in and above Watertown. During canal season, water is diverted out of basin through Forestport feeder and Black River Canal (flowing south). Several measurements of water temperature were made during the year. Telephone and satellite gage-height telemeters at station.

AVERAGE DISCHARGE.--76 years, 4,122 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42,600 ft³/s, Apr. 12, 1993, gage height, 14.2 ft; minimum, 10 ft³/s, Sept. 2, 1934, gage height, 0.81 ft, present datum; minimum daily discharge, 137 ft³/s, Sept. 4, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, about 39,700 ft³/s, Apr. 23, 1869 (from New York State Museum Bulletin 85).

EXTREMES 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)
Oct. 24	1945	19,200	8.69	Apr. 25	1830	*23,900	*9.81
Jan. 22	1045	21,700	9.30	May 14	1445	19,300	8.71

Minimum discharge, 425 ft³/s, Oct. 3, gage height, 1.71 ft; minimum daily discharge, 821 ft³/s, Oct. 4.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1230	7040	5160	e2500	9030	10100	6500	14700	3860	1980	2530	1430
2	1120	6560	5090	e2600	7850	8500	6590	14500	3250	2240	2960	1290
3	958	6650	4260	e2400	6640	7690	6940	14200	3110	2090	3020	1390
4	821	7180	5150	e2300	5720	5750	6780	13600	2980	2230	2690	1540
5	1170	7500	4980	e2300	4780	5560	6420	12400	2810	6490	2480	1490
6	2810	7520	4180	e2200	4190	4870	5620	11100	3010	8080	2240	1290
7	6140	7060	3270	e2300	3860	4540	5190	10500	3330	8710	2120	968
8	5810	6160	2920	e2300	3780	3700	5420	9320	4020	8350	1880	1200
9	4770	5760	3500	e2300	3750	3690	5560	8360	5130	6800	1660	1290
10	3640	5450	3430	e2300	e3800	e3600	5500	7560	5990	4850	1750	1680
11	2820	4960	3450	e2400	e3900	e3800	5080	8570	7790	3150	1810	2080
12	2150	7010	3590	e2300	e3800	e3900	5040	12000	9550	2380	1670	1830
13	1930	9010	3850	e2200	e3500	3980	5810	15800	10800	2250	1690	1930
14	1600	9600	3620	e2200	e3600	4000	7710	18600	10800	2110	1610	1780
15	1980	10600	3220	e2200	e3400	4190	9040	17600	9930	2400	1630	1500
16	5840	10600	3360	e2100	e3200	4870	10900	15200	8580	5340	1630	1150
17	7220	9730	3430	e2200	e3100	5060	13000	12900	7010	7080	1680	1390
18	7240	8720	3410	2980	3030	4840	16300	11100	5530	6880	1920	1340
19	7050	7560	e3300	11800	2640	4730	17300	9950	4330	5790	1990	1390
20	5920	6730	e3200	15900	2950	5580	15900	9390	3570	5160	1860	1370
21	5660	6080	e3200	18000	7030	6390	15600	10300	3780	5760	1770	1330
22	11200	5480	e3000	20800	11000	6230	16200	11600	3380	5390	2040	1230
23	13800	5370	e2800	18800	11400	5610	18700	11600	3370	4110	2690	1300
24	18400	5070	e2700	15800	13300	4800	21500	11300	3300	3500	2010	2140
25	17100	4570	e2700	14400	15000	4570	23100	10600	3050	2990	1970	2840
26	14200	3890	e2600	13100	15300	6200	22300	9270	3100	2620	1640	2320
27	11300	4170	e2600	12700	15200	7590	19300	7910	3290	2650	1780	1910
28	8950	4520	e2600	13200	14200	7470	17000	6550	3250	2920	1750	1630
29	7840	5740	e2500	12600	11500	6960	15500	5570	2650	2750	1660	2490
30	7690	5480	e2500	11400	---	6460	14300	4800	2280	2610	1620	5580
31	7370	---	e2500	10300	---	6320	---	4030	---	2370	1570	---
TOTAL	195729	201770	106070	230880	200450	171550	350100	340880	146830	132030	61320	52098
MEAN	6314	6726	3422	7448	6912	5534	11670	11000	4894	4259	1978	1737
MAX	18400	10600										

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 1996, BY WATER YEAR (WY)

MEAN	3136	4352	4404	3996	3602	6051	9921	5391	2715	2011	1747	2160
MAX	9058	8440	9129	8658	9181	13590	19180	12790	8235	5266	4083	5011
(WY)	1946	1989	1928	1937	1981	1921	1993	1943	1947	1972	1986	1975
MIN	1149	1116	1403	1173	1289	1776	3460	1600	991	925	730	919
(WY)	1964	1931	1923	1961	1931	1940	1995	1941	1941	1965	1923	1923

e Estimated

STREAMS TRIBUTARY TO LAKE ONTARIO

04260500 BLACK RIVER AT WATERTOWN, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1920 - 1996	
ANNUAL TOTAL	1356876		2189707			
ANNUAL MEAN	3717		5983		4122	
HIGHEST ANNUAL MEAN					6392	1976
LOWEST ANNUAL MEAN					2579	1931
HIGHEST DAILY MEAN	21800	Jan 18	23100	Apr 25	41000	Apr 12 1993
LOWEST DAILY MEAN	793	Jun 21	821	Oct 4	137	Sep 4 1939
ANNUAL SEVEN-DAY MINIMUM	922	Aug 22	1310	Sep 2	637	Aug 15 1923
10 PERCENT EXCEEDS	7750		13200		8780	
50 PERCENT EXCEEDS	2450		4550		2800	
90 PERCENT EXCEEDS	1100		1690		1260	

LAKES AND RESERVOIRS IN STREAMS TRIBUTARY TO LAKE ONTARIO

04253300 SIXTH LAKE--Lat 43°44'43", long 74°46'58", Hamilton County, Hydrologic Unit 04150101, on dam at outlet of Sixth Lake at Inlet, and 11.2 mi upstream from dam at Old Forge. **DRAINAGE AREA**, 18.6 mi². **PERIOD OF RECORD**, November 1911 to current year. **GAGE**, nonrecording gage read daily at 0800. Datum of gage is sea level (levels by Hudson River-Black River Regulating District).

The Sixth and Seventh Lakes of Fulton Chain Lakes are partially formed and controlled by the concrete dam at Inlet, while the Eighth Lake is upstream and at approximately 5 ft higher elevation. Storage began around 1881. The present structure is a concrete dam with control gates which were installed in 1938. Usable capacity 296.6 mil ft³ between minimum operating level, elevation 1,775.1 ft and crest of spillway, elevation 1,786.0 ft; no dead storage below minimum operating level. Figures given herein represent total contents. The dam is operated, records collected, provided, and stored by Board of Hudson River-Black River Regulating District.

EXTREMES FOR PERIOD OF RECORD--Maximum contents observed, 332 mil ft³, Oct. 3, 1945, elevation, 1,787.1 ft; minimum observed, less than 0.90 mil ft³, Nov. 18, 1943, water level below elevation 1,775.6 ft.

EXTREMES FOR CURRENT YEAR--Maximum contents observed, 319.0 mil ft³, Oct. 22, elevation, 1,786.70 ft; minimum observed, 179.0 mil ft³, Feb. 19, elevation, 1,782.25 ft.

04253400 FIRST LAKE (formerly published as "Old Forge Reservoir")--Lat 43°42'44", long 74°58'12", Herkimer County, Hydrologic Unit 04150101, at dam on Middle Branch Moose River, 100 ft downstream from bridge on State Highway 28 at Old Forge, and 11.2 mi downstream from dam on Sixth Lake outlet at Inlet. **DRAINAGE AREA**, 53.6 mi². **PERIOD OF RECORD**, November 1911 to current year. **REVISED RECORDS**, WDR NY-85-1: Drainage area. **GAGE**, nonrecording gage read daily at 0800. Datum of gage is sea level (levels by Hudson River-Black River Regulating District).

The First through Fifth Lakes of Fulton Chain Lakes are partially formed and controlled by a concrete dam with 12-inch flashboards. Storage began around 1881 or 1882 with a wooden crib dam. This dam was replaced with a concrete dam in 1905 and gates were installed in 1927. Usable capacity with flashboards, 895.6 mil ft³, elevation, 1,707.0 ft. Usable capacity without flashboards, 764.3 mil ft³, elevation, 1,706.1 ft; no dead storage below minimum operating level. Figures given herein represent total contents. The dam is operated, records collected, provided, and stored by Board of Hudson River-Black River Regulating District.

EXTREMES FOR PERIOD OF RECORD--Maximum contents observed, 1,019 mil ft³, June 17, 1972, elevation, 1,707.9 ft; minimum observed, 6.50 mil ft³, Nov. 3, 1939, elevation, 1,699.8 ft.

EXTREMES FOR CURRENT YEAR--Maximum contents observed, 950.8 mil ft³, Oct. 23, elevation, 1,707.44 ft; minimum observed, 373.2 mil ft³, Jan. 18, elevation, 1,703.00 ft.

04256500 STILLWATER RESERVOIR NEAR BEAVER RIVER (see station for daily elevation, skeleton capacity table, monthly contents, and change in contents).

MONTH-END ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Elevation (feet) †	Contents (million ft ³)	Change in contents (equivalent in ft ³ /s)	Elevation (feet) †	Contents (million ft ³)	Change in contents (equivalent in ft ³ /s)
04253300 Sixth Lake				04253400 First Lake		
Sept. 30	1,785.55	282.2		1,706.98	887.4	
Oct. 31	1,785.33	275.1	- 2.65	1,706.46	817.5	-26.1
Nov. 30	1,785.60	220.8	-20.9	1,704.73	591.6	-87.2
Dec. 31	1,782.82	196.6	- 9.03	1,703.41	424.4	-62.4
CAL YR 1995	-	-	+ 0.82	-	-	+ 3.11
Jan. 31	1,782.57	188.9	- 2.87	1,703.90	485.7	+22.9
Feb. 29	1,783.05	203.7	+ 5.90	1,704.29	534.4	+19.4
Mar. 31	1,783.00	202.2	- 0.56	1,704.61	576.0	+15.5
Apr. 30	1,783.90	230.1	+10.8	1,706.31	797.0	+85.3
May 31	1,785.55	282.2	+19.5	1,706.91	878.0	+30.2
June 30	1,785.53	281.5	- 0.27	1,706.91	878.0	0.0
July 31	1,785.52	281.2	- 0.11	1,706.82	866.0	- 4.48
Aug. 31	1,785.43	278.3	- 1.08	1,706.85	870.2	+ 1.57
Sept. 30	1,785.20	271.0	- 2.82	1,706.60	836.2	-13.1
WTR YR 1996	-	-	- 0.35	-	-	- 1.62

† Elevation at 2400 hours, by interpolation.

ST. LAWRENCE RIVER BASIN

04262000 OSWEGATCHIE RIVER NEAR OSWEGATCHIE, NY

LOCATION.--Lat 44°13'21", long 75°04'29", St. Lawrence County, Hydrologic Unit 04150302, on left bank, 300 ft downstream from Niagara Mohawk Corporation Flat Rock powerplant, and 2.8 mi north of Oswegatchie.

DRAINAGE AREA.--259 mi².

PERIOD OF RECORD.--October 1924 to September 1968, July 1987 to current year. Prior to October 1958, published as East Branch Oswegatchie River near Oswegatchie.

REVISED RECORDS.--WDR NY-88-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,016.52 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Extensive diurnal fluctuation at low and medium flow caused by powerplant. Since 1867, flow regulated by Cranberry Lake. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--53 years (water years 1925-68, 1988-96), 521 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,090 ft³/s, Apr. 12, 1947; maximum gage height, 7.3 ft, Apr. 26, 1926; minimum daily discharge, 1.0 ft³/s, July 25, 1926.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,100 ft³/s, Jan. 19, gage height, 6.26 ft; minimum daily, 77 ft³/s, Oct. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	1090	403	323	870	1390	870	1450	689	515	357	230
2	235	943	503	294	906	1350	632	1810	701	341	345	249
3	188	909	459	251	993	1270	639	1490	694	339	325	236
4	121	1000	486	240	1110	1080	656	1290	515	821	306	213
5	139	903	445	241	603	1090	601	1200	423	1220	272	208
6	343	957	443	242	755	1230	577	841	443	1200	227	209
7	468	909	477	242	732	862	510	853	553	1230	227	214
8	371	946	477	244	418	748	364	951	1580	1170	224	206
9	287	802	371	241	638	814	390	1080	1590	1380	279	218
10	202	428	388	236	453	705	395	1110	1530	1430	312	220
11	210	523	381	240	618	620	465	1520	1510	1390	274	216
12	286	1270	417	360	648	711	676	1940	1100	1300	258	217
13	208	1070	293	272	535	702	605	2200	1300	469	252	217
14	152	931	302	268	419	513	910	1900	1240	565	253	216
15	283	1050	441	266	445	569	1050	1840	1050	1220	249	217
16	759	1150	497	265	522	299	1140	1850	772	2580	248	221
17	450	1120	514	263	615	326	1290	1740	679	1860	258	220
18	486	917	456	568	517	490	1130	1310	801	1430	261	215
19	566	937	301	1910	491	586	1240	1320	605	1150	266	209
20	449	1110	292	2290	620	613	1390	1210	727	1500	269	213
21	851	698	312	1900	1070	860	1690	1230	752	1160	282	216
22	2180	433	407	1280	1110	567	1750	914	475	784	280	215
23	1700	370	432	791	1390	295	2010	926	399	721	264	215
24	1350	378	459	1000	1670	373	2210	953	599	495	346	208
25	1240	420	334	1140	1900	522	2060	805	756	650	392	271
26	1340	451	325	1230	1690	1000	2140	783	719	417	351	261
27	944	566	306	1200	1410	656	2140	765	409	354	238	243
28	941	491	305	1420	1070	747	1860	725	688	279	228	237
29	1020	472	318	771	1170	851	1340	619	294	239	230	303
30	1110	460	333	1020	---	469	1180	804	233	256	227	313
31	1120	---	383	1300	---	509	---	809	---	377	223	---
TOTAL	20076	23704	12260	22308	25388	22817	33910	38238	23826	28842	8523	6846
MEAN	648	790	395	720	875	736	1130	1233	794	930	275	228
MAX	2180	1270	514	2290	1900	1390	2210	2200	1590	2580	392	313
MIN	77	370	292	236	418	295	364	619	233	239	223	206

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 1996, BY WATER YEAR (WY)

	398	502	507	541	528	691	1012	692	418	331	307	326
MEAN												
MAX	685	1048	1097	1094	970	1161	1787	1659	1218	930	632	719
(WY)	1946	1989	1928	1937	1947	1990	1947	1943	1947	1996	1989	1957
MIN	189	177	239	230	225	288	302	219	170	131	152	152
(WY)	1942	1940	1935	1931	1931	1931	1995	1941	1988	1991	1991	1990

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1925 - 1996

ANNUAL TOTAL	155493	266738		
ANNUAL MEAN	426	729		
HIGHEST ANNUAL MEAN			521	
LOWEST ANNUAL MEAN			884	1947
HIGHEST DAILY MEAN	2460	Jan 16	2580	Jul 16
LOWEST DAILY MEAN	77	Sep 30	77	Oct 1
ANNUAL SEVEN-DAY MINIMUM	86	Jul 1	213	Sep 4
10 PERCENT EXCEEDS	910		1410	
50 PERCENT EXCEEDS	302		567	
90 PERCENT EXCEEDS	141		230	

309

LOCATION.--Lat 44°11'08", long 75°19'52", St. Lawrence County, Hydrologic Unit 04150302, on right bank just downstream from highway bridge, 0.5 mi northeast of Geers Corners, 1.5 mi downstream from Big Creek, and 4.0 mi downstream from Harrisville.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,300 ft³/s and maximum (*):

Minimum discharge, 69 ft³/s, Sept. 4, 8, gage height, 1.35 ft.

e Estimated

ST. LAWRENCE RIVER BASIN

04262500 WEST BRANCH OSWEGATCHIE RIVER NEAR HARRISVILLE, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1916 - 1996	
ANNUAL TOTAL	162258		274736		524	
ANNUAL MEAN	445		751		833	1947
HIGHEST ANNUAL MEAN					333	1941
LOWEST ANNUAL MEAN					6820	Mar 15 1977
HIGHEST DAILY MEAN	4720	Jan 17	5280	Jan 21	21	Aug 11 1985
LOWEST DAILY MEAN	52	Jul 5	81	Sep 8	34	Aug 28 1934
ANNUAL SEVEN-DAY MINIMUM	55	Jun 30	86	Sep 2	2.15	
ANNUAL RUNOFF (CFSM)	1.82		3.08		29.21	
ANNUAL RUNOFF (INCHES)	24.74		41.89		1180	
10 PERCENT EXCEEDS	937		1780		321	
50 PERCENT EXCEEDS	277		474		98	
90 PERCENT EXCEEDS	82		133			

ST. LAWRENCE RIVER BASIN

311

04263000 OSWEGATCHIE RIVER NEAR HEUVELTON, NY

LOCATION.--Lat 44°35'58", long 75°22'45", St. Lawrence County, Hydrologic Unit 04150302, on right bank 1.5 mi downstream from Beaver Creek, and 2.5 mi upstream from Heuvelton.

DRAINAGE AREA.--965 mi².

PERIOD OF RECORD.--June 1916 to current year.

REVISED RECORDS.--WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 288.85 ft above sea level. Prior to Sept. 16, 1916, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Since 1867, seasonal flow regulated by Cranberry Lake; slight diurnal fluctuation at low flow and medium flow caused by powerplants. During high stages on Grass River, part of flow of that stream may pass through Upper Lake, Indian Creek and Lower Lake and enter Oswegatchie River at Rensselaer Falls, 4.5 mi upstream from station. In October 1973, a dike was installed on Indian Creek to prevent overflow of Grass River during high flows. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--80 years, 1,743 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,600 ft³/s, Apr. 6, 1960, gage height, 10.36 ft; minimum, 99 ft³/s, Aug. 4, 1991, gage height, 0.49 ft; minimum gage height, 0.47 ft, Aug. 17, 1949, but may have been less during period of no gage-height record Sept. 7, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,700 ft³/s, Jan. 23, gage height, 7.34 ft; minimum, 244 ft³/s, Oct. 3, gage height, 0.82 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	362	2600	1560	e760	3830	4220	2060	4720	1400	851	726	410
2	281	2500	e1600	e750	e2900	e3600	2150	4560	1430	762	751	415
3	249	2560	e1700	e700	e2400	e3100	2330	4580	1320	911	710	421
4	291	2440	1850	e680	e2100	e2800	2150	4410	1270	865	775	416
5	396	2460	1810	e650	e1900	e2500	2070	3810	1240	971	728	430
6	516	2400	1760	e620	e1700	e2200	1940	3430	1150	2750	679	424
7	1090	2300	1580	e600	e1500	e2000	1810	2900	1150	3830	613	391
8	1770	2160	1500	e610	e1500	e1900	1770	2500	1650	3820	560	355
9	1850	2000	1380	e640	e1600	1900	1750	2300	3130	3250	532	368
10	1620	1850	e1300	e680	e1700	1760	1670	2370	3780	2780	621	391
11	1350	1710	e1200	e660	e1800	1680	1580	3400	3870	2500	660	401
12	1070	1530	e1100	e650	e1800	1570	1610	5570	3990	2210	610	447
13	898	2500	e1000	e650	e1700	1510	1900	7480	4240	2000	553	450
14	881	3240	e950	e660	e1500	1640	2610	8350	4200	1580	526	481
15	829	3220	e950	e650	e1400	2160	3420	7970	4110	1190	519	495
16	996	3360	e950	e640	e1200	2180	4100	6820	3840	1460	509	529
17	1800	3430	e980	787	e1200	2030	4960	5760	3060	3490	509	546
18	2330	3260	e990	1370	e1200	1780	5780	4960	2320	4470	505	538
19	1960	2990	e1000	5180	e1200	1760	5930	4230	1950	4010	516	481
20	1770	2670	e950	7680	1320	2000	5620	3730	1750	3160	539	504
21	1680	2610	e900	9540	3600	2200	5520	3700	1490	2800	568	465
22	2980	2590	e880	10300	4950	2370	5510	4000	1440	2780	557	409
23	5290	2250	e850	10500	4810	2540	5920	3850	1620	2310	623	405
24	6460	1900	e830	9350	e5500	2350	6870	3680	1430	1840	617	425
25	6290	1730	e820	8060	e6000	1900	7700	3350	1270	1430	595	414
26	5160	1570	e800	7350	6430	2120	8170	2790	1350	1260	672	422
27	4130	1550	e800	6540	6480	2650	7990	2340	1360	1190	675	463
28	3360	e1550	e800	6060	6020	3000	7360	2030	1270	1000	615	563
29	2720	e1500	e800	5690	5260	2800	6490	1790	1110	898	549	657
30	2520	1480	e780	5230	---	2740	5530	1600	1110	804	485	644
31	2530	---	e780	4310	---	2500	---	1430	---	736	445	---
TOTAL	65429	69910	35150	108547	84500	71460	124270	124410	64300	63908	18542	13760
MEAN	2111	2330	1134	3502	2914	2305	4142	4013	2143	2062	598	459
MAX	6460	3430	1850	10500	6480	4220	8170	8350	4240	4470	775	657
MIN	249	1480	780	600	1200	1510	1580	1430	1110	736	445	355

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1996, BY WATER YEAR (WY)

	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927
MEAN	1144	1780	1901	1796	1627	3102	4259	2149	1123	729	613	704
MAX	3563	4284	4522	5369	4800	6327	8867	5243	4481	2096	2196	2420
(WY)	1978	1928	1928	1930	1954	1977	1993	1976	1947	1947	1981	1981
MIN	327	552	582	507	538	972	1167	620	391	319	278	278
(WY)	1964	1957	1923	1961	1934	1940	1995	1941	1941	1965	1934	1990

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1916 - 1996
ANNUAL TOTAL	491178	844186	
ANNUAL MEAN	1346	2307	1743
HIGHEST ANNUAL MEAN			2952
LOWEST ANNUAL MEAN			1029
HIGHEST DAILY MEAN	8980	Jan 19	19200
LOWEST DAILY MEAN	146	Jul 8	107
ANNUAL SEVEN-DAY MINIMUM	170	Jul 4	133
10 PERCENT EXCEEDS	3070		3990
50 PERCENT EXCEEDS	881		1100
90 PERCENT EXCEEDS	308		433

e Estimated

ST. LAWRENCE RIVER MAIN STEM

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY
(National stream-quality accounting network station)
(National radiochemical network station)

LOCATION.--Lat 45°00'22", long 74°47'43", Stormont County, Ontario--St. Lawrence County, NY, Hydrologic Unit 04150301, at Robert Moses-Robert H. Saunders power dam on Lake St. Lawrence at the International Boundary at Cornwall, Ontario, 2.9 mi upstream from Grass River, 6.2 mi upstream from Raquette River, and 5.9 mi northeast of Massena, NY. Water-quality samples collected at power dam from taps at generators 17 and 30.

DRAINAGE AREA.--298,800 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1860 to September 1935 (monthly discharges only, published in WSP 1307), October 1935 to current year. Prior to October 1970 published as 04264000 "St. Lawrence River at Ogdensburg."

REVISED RECORDS.--WSP 1437: 1870, 1875, 1881, 1883, 1884, 1890.

GAGE.--There is no gage. Discharge is determined from summation of discharge through the Robert Moses-Robert H. Saunders power dam, the Long Sault Dam, the Massena Diversion, the Rasin River Diversion, the Cornwall and Massena municipal water supply, and the Cornwall and the Wiley-Dondero navigation canals. U.S.-Canada coordinated discharge figures supplied by Corps of Engineers. Prior to 1956, base gage at lock 25 at Iroquois Ont. with supplementary gages. August 1956 to June 1958, base gage at lock 24 between Iroquois and Morrisburg, Ont., and supplementary were gages of the Hydro-Electric Power Commission of Ontario. Discharge in the reach of river at Cornwall, Ont.--near Massena, NY is considered to be the same as discharge at Ogdensburg, NY when adjusted for storage in Lake St. Lawrence.

REMARKS.--Since July 1958, flow regulated by international agreement administered by International St. Lawrence River Board of Control under the International Joint Commission. Records do not include water diverted from Lake Michigan by Illinois and Michigan Canal during period of its operation prior to 1910 and by Chicago Sanitary and Ship Canal, which began operation in 1900. Records include water diverted into Lake Superior from Hudson Bay drainage by the Long Lake Project, which began operation in July 1939, and by the Ogoki project, which began operation in July 1943.

COOPERATION.--Records of daily discharge provided by Buffalo District, Corps of Engineers through International St. Lawrence River Board of Control.

AVERAGE DISCHARGE.--136 years (water years 1861-1996), 246,000 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 378,000 ft³/s, May 20, 28, June 8, 1993; minimum daily, 139,000 ft³/s, Feb. 7, 1936; maximum monthly discharge, 353,500 ft³/s, May and June 1993; minimum monthly, 153,800 ft³/s, Feb. 1936.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 307,000 ft³/s, July 9, Aug. 6-9; minimum daily, 215,000 ft³/s, Jan. 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	240000	247000	285000	251000	230000	264000	263000	259000	291000	302000	292000	284000
2	242000	248000	287000	251000	229000	268000	263000	259000	291000	302000	292000	284000
3	242000	247000	283000	254000	240000	268000	263000	269000	291000	302000	302000	281000
4	242000	247000	282000	252000	240000	268000	263000	260000	291000	303000	302000	276000
5	241000	248000	285000	215000	245000	268000	263000	259000	291000	302000	302000	277000
6	235000	247000	286000	220000	251000	267000	265000	268000	291000	306000	307000	277000
7	229000	262000	296000	220000	251000	269000	265000	269000	291000	306000	307000	278000
8	229000	262000	289000	220000	251000	268000	264000	269000	293000	306000	307000	278000
9	229000	262000	278000	220000	251000	269000	265000	268000	293000	307000	307000	278000
10	229000	262000	291000	220000	260000	268000	264000	268000	293000	306000	301000	278000
11	229000	265000	291000	220000	260000	268000	265000	269000	293000	306000	302000	278000
12	229000	265000	259000	220000	260000	268000	265000	260000	293000	306000	298000	278000
13	237000	265000	227000	230000	260000	268000	265000	237000	293000	292000	294000	278000
14	243000	265000	230000	230000	260000	268000	265000	237000	293000	292000	294000	280000
15	242000	264000	230000	230000	260000	268000	264000	249000	296000	292000	294000	279000
16	243000	265000	230000	230000	260000	266000	255000	265000	296000	292000	294000	279000
17	249000	265000	232000	229000	265000	266000	255000	275000	296000	292000	292000	279000
18	251000	278000	240000	230000	265000	266000	255000	282000	296000	292000	292000	280000
19	252000	277000	240000	230000	265000	266000	256000	285000	296000	292000	292000	283000
20	249000	278000	240000	230000	265000	266000	273000	284000	295000	303000	292000	274000
21	248000	278000	216000	230000	265000	266000	272000	289000	296000	303000	292000	269000
22	249000	278000	226000	230000	265000	266000	272000	284000	295000	303000	292000	288000
23	250000	277000	230000	230000	265000	265000	266000	286000	295000	303000	292000	282000
24	249000	278000	230000	230000	264000	265000	253000	290000	295000	303000	289000	286000
25	249000	285000	220000	230000	265000	265000	251000	290000	295000	303000	289000	289000
26	250000	285000	221000	230000	264000	265000	245000	290000	295000	302000	289000	289000
27	249000	281000	244000	230000	264000	266000	244000	290000	295000	287000	287000	289000
28	248000	278000	250000	230000	264000	265000	258000	290000	296000	287000	285000	289000
29	244000	285000	251000	230000	264000	265000	258000	291000	303000	292000	284000	289000
30	259000	285000	251000	229000	---	263000	258000	290000	302000	292000	284000	289000
31	259000	---	251000	230000	---	264000	---	291000	---	292000	284000	---
TOTAL	7536000	8029000	7871000	7131000	7448000	8262000	7833000	8472000	8830000	9268000	9130000	8438000
MEAN	243100	267600	253900	230000	256800	266500	261100	273300	294300	299000	294500	281300
MAX	259000	285000	296000	254000	265000	269000	273000	291000	303000	307000	307000	289000
MIN	229000	247000	216000	215000	229000	263000	244000	237000	291000	287000	284000	269000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 1996, BY WATER YEAR (WY)

	MEAN	249800	246200	241000	227100	233600	245300	257200	266900	271400	268100	262800	257300
MAX	323800	338100	327000	298700	287500	314400	325100	353500	353500	350000	330300	326400	
(WY)	1987	1987	1987	1987	1986	1987	1973	1993	1993	1973	1974	1986	
MIN	182600	176100	174700	168700	153800	179800	179200	176500	188600	200600	200000	194900	
(WY)	1936	1936	1936	1936	1936	1965	1964	1965	1965	1965	1964	1936	1936

ST. LAWRENCE RIVER MAIN STEM

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04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1936 - 1996	
ANNUAL TOTAL	89211000		98248000		252300	
ANNUAL MEAN	244400		268400		309300	1987
HIGHEST ANNUAL MEAN					191800	1936
LOWEST ANNUAL MEAN					378000	May 20 1993
HIGHEST DAILY MEAN	296000	Dec 7	307000	Jul 9	139000	Feb 7 1936
LOWEST DAILY MEAN	216000	Dec 21	215000	Jan 5	148000	Feb 6 1936
ANNUAL SEVEN-DAY MINIMUM	220000	Jan 17	219000	Jan 5	300000	
10 PERCENT EXCEEDS	266000		296000		252000	
50 PERCENT EXCEEDS	242000		268000		207000	
90 PERCENT EXCEEDS	226000		230000			

ST. LAWRENCE RIVER MAIN STEM

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1955, January 1966 to September 1996 (discontinued). Prior to October 1970, published as "near Massena, NY".

CHEMICAL DATA: 1955 (a), 1974 (c), 1975-81 (d), 1982-86 (c), 1987 (b), 1988-89 (c), 1990 (b), 1991 (d), 1992-94 (b), 1995 (c), 1996 (d).

MINOR ELEMENTS DATA: 1974-77 (b), 1978 (a), 1979 (b), 1980 (c), 1981-87 (b), 1988-90 (c), 1991 (d), 1992-94 (b), 1995 (c), 1996 (d).

RADIOCHEMICAL DATA: 1974-95 (a), 1996 (c).

PESTICIDE DATA: 1988-90 (b), 1995 (a), 1996 (d).

ORGANIC DATA: OC--1974 (a), 1975 (b), 1977 (b), 1978-81 (d), 1995 (a), 1996 (d).

NUTRIENT DATA: 1974-75 (c), 1976-81 (d), 1982-86 (c), 1987 (b), 1988-91 (c), 1992-94 (b), 1995 (c), 1996 (d).

BIOLOGICAL DATA:

Bacteria--1974 (c), 1975-81 (d), 1982-86 (c), 1987-94 (b), 1995 (c).

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

Periphyton--1974 (a), 1975 (c), 1976-80 (b).

SEDIMENT DATA: 1975 (d), 1976-77 (c), 1978-81 (d), 1982-86 (c), 1987-90 (b), 1991 (d), 1992-95 (b), 1996 (d).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to September 1986.

WATER TEMPERATURES: October 1955 to October 1958, unpublished; January 1966 to September 1986.

REMARKS.--Temperature observations from October 1955 to October 1958 made at Aluminum Company of America Massena Canal power station and those from January 1966 to September 1986 made approximately 68 ft below normal forebay level. Samples collected at boat cross section about 1 mi upstream of dam.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 400 microsiemens Aug. 7, 1978, Mar. 29, 1979; minimum daily, 250 microsiemens Dec. 21, 1978.

WATER TEMPERATURES: Maximum daily, 24.5°C on several days in August and September 1973 and August 1975; minimum daily, 0.0°C on many days during winter periods except 1972-74, 1979, 1982-85.

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

DATE	TIME	*DIS- CHARGE, IN CUBIC FEET PER SECOND (00060)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
OCT												
†12...	0820	229000.	286	7.7	--	15.0	0.40	--	--	--	110	29
12...	1300	229000.	287	7.7	18.5	15.5	0.30	--	11.5	--	110	36
NOV												
†21...	0900	278000.	274	7.1	--	6.0	0.30	--	--	--	110	--
DEC												
†13...	0830	227000.	282	7.4	-12.5	1.5	0.20	775	--	--	120	--
JAN												
†18...	0810	230000.	278	6.6	2.5	0.0	0.10	763	--	--	120	--
FEB												
†14...	0915	260000.	296	6.8	--	0.5	0.10	751	--	--	120	--
MAR												
†13...	0800	268000.	282	7.54	1.0	0.5	0.30	762	--	--	120	42
MAY												
09...	1310	268000.	271	7.93	10.0	7.0	0.30	764	12.2	100	120	37
†09...	1320	268000.	269	8.00	10.0	7.0	0.40	764	12.2	100	120	38
15...	0840	249000.	277	7.64	--	7.0	0.20	768	--	--	110	37
†15...	0850	249000.	277	7.64	--	7.0	0.10	768	--	--	110	43
JUN												
18...	1230	296000.	284	7.87	18.0	16.0	0.20	760	10.4	106	120	53
**18...	1238	--	--	--	18.0	--	--	760	--	--	0	--
†18...	1240	296000.	285	7.98	18.0	16.0	1.0	760	10.4	106	120	43
JUL												
16...	1100	292000.	277	7.93	25.0	18.5	0.30	756	9.25	99	120	0
†16...	1110	292000.	277	7.93	25.0	18.5	1.0	756	9.25	99	110	40
AUG												
13...	1140	294000.	278	8.02	21.5	21.5	0.20	758	8.20	94	110	44
#13...	1145	294000.	278	8.02	21.5	21.5	0.30	758	8.20	94	110	24
†13...	1150	294000.	285	8.07	21.5	21.5	0.80	758	8.20	94	110	11
##13...	1155	294000.	285	8.07	21.5	21.5	0.60	758	8.20	94	110	15
SEP												
17...	1120	279000.	277	7.90	13.5	20.0	1.5	758	7.60	84	120	32

* Daily discharge.

†† Sample collected in the dam.

† Quality assurance sample - replicate.

** Quality assurance sample -- field blank.

Quality assurance sample - split.

Quality assurance sample - split sample of a replicate sample.

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY--Continued

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

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3 (39086)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD (MG/L AS CO3 (00452)	SULFATE SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
OCT												
##12...	32	8.1	12	1.5	84	103	0	25	21	<0.10	0.54	160
12...	32	8.0	11	1.5	77	94	0	25	20	<0.10	0.51	159
NOV												
##21...	32	7.7	11	1.4	E90	E110	0	23	20	0.10	0.65	156
DEC												
##13...	34	8.1	11	1.5	E90	E110	0	25	19	0.20	0.65	160
JAN												
##18...	35	8.1	11	1.6	E95	E116	0	22	19	0.20	0.74	170
FEB												
##14...	34	7.5	11	1.4	E94	E115	0	24	19	0.10	0.77	171
MAR												
##13...	34	8.2	11	1.4	77	94	0	24	20	0.10	0.83	161
MAY												
09...	35	7.7	11	1.6	82	100	0	25	20	0.10	0.53	188
+09...	34	7.5	11	1.5	78	95	0	24	19	0.10	0.53	184
15...	34	7.2	11	1.3	78	95	0	24	20	0.10	0.65	169
+15...	34	7.2	11	1.3	71	87	0	23	19	0.10	0.65	167
JUN												
18...	34	7.3	11	1.4	62	76	0	23	18	0.10	0.75	171
**18...	0.01	0.00	<0.03	--	--	--	--	--	--	--	<0.02	--
+18...	34	7.3	10	1.4	72	88	0	23	18	0.10	0.74	171
JUL												
16...	34	7.7	11	1.4	121	148	0	23	19	0.10	0.55	170
+16...	33	7.5	11	1.4	73	89	0	24	20	0.10	0.57	170
AUG												
13...	32	7.7	11	1.5	68	83	0	24	20	0.10	0.33	162
#13...	31	7.6	11	1.4	85	104	0	25	19	0.10	0.34	153
+13...	32	7.8	11	1.6	101	123	0	25	19	0.10	0.35	160
##13...	30	7.4	11	1.4	91	111	0	25	20	0.10	0.33	159
SEP												
17...	33	7.9	11	1.4	83	101	0	25	20	0.10	0.60	159
DATE	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS- TOTAL (MG/L AS N) (00623)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT												
##12...	152	0.210	--	<0.01	0.210	0.21	<0.015	--	<0.2	<0.2	--	<0.01
12...	145	0.200	--	<0.01	0.200	0.20	<0.015	--	<0.2	<0.2	--	<0.01
NOV												
##21...	151	0.260	0.260	0.01	0.270	0.27	<0.015	--	<0.2	<0.2	--	<0.01
DEC												
##13...	155	0.310	--	<0.01	0.310	0.31	<0.015	--	<0.2	<0.2	--	0.01
JAN												
##18...	--	0.330	--	<0.01	0.330	0.33	<0.015	--	<0.2	<0.2	--	<0.01
FEB												
##14...	--	0.400	--	<0.01	0.400	0.40	<0.015	0.30	0.3	<0.2	0.70	0.01
MAR												
##13...	148	0.390	0.390	0.01	0.400	0.40	0.03	0.27	0.3	0.3	0.70	0.03
MAY												
09...	152	0.360	--	<0.01	0.360	0.36	0.04	0.16	0.2	0.2	0.56	0.02
+09...	147	0.440	--	<0.01	0.440	0.44	0.03	0.27	0.3	0.2	0.74	0.05
15...	146	0.280	--	<0.01	0.280	0.28	0.03	0.27	0.3	<0.2	0.58	0.02
+15...	141	0.300	--	<0.01	0.300	0.30	0.04	0.16	0.2	<0.2	0.50	0.01
JUN												
18...	135	0.350	0.350	0.01	0.360	0.36	0.04	0.26	0.3	0.3	0.66	0.04
**18...	--	--	--	<0.001	--	<0.005	0.002	--	--	--	--	--
+18...	139	0.300	--	<0.010	0.300	0.300	0.030	0.27	0.30	0.2	0.60	0.050
JUL												
16...	171	0.230	0.230	0.01	0.240	0.24	0.03	0.27	0.3	0.2	0.54	<0.01
+16...	143	0.230	0.230	0.01	0.240	0.24	0.04	0.16	0.2	0.2	0.44	<0.01
AUG												
13...	139	0.230	0.230	0.02	0.250	0.25	0.03	0.17	0.2	<0.2	0.45	<0.01
#13...	148	0.250	0.250	0.01	0.260	0.26	0.05	0.25	0.3	<0.2	0.56	0.01
+13...	159	0.250	0.250	0.01	0.260	0.26	0.03	0.17	0.2	<0.2	0.46	0.02
##13...	151	0.240	0.240	0.02	0.260	0.26	0.03	0.17	0.2	<0.2	0.46	0.01
SEP												
17...	150	0.200	0.200	0.02	0.220	0.22	0.04	0.26	0.3	0.2	0.52	0.02

Sample collected in the dam.

E Estimate.

+ Quality assurance sample - replicate.

** Quality assurance sample -- field blank.

Quality assurance sample - split.

Quality assurance sample - split sample of a replicate sample.

ST. LAWRENCE RIVER MAIN STEM

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY--Continued

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

DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4) (00660)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
OCT												
##12...	<0.01	<0.01	--	<10	--	20	--	--	--	<3	--	9
12...	<0.01	<0.01	--	<10	--	20	--	--	--	<3	--	<3
NOV												
##21...	<0.01	<0.01	--	10	--	21	--	--	--	<3	--	5
DEC												
##13...	0.01	0.01	0.03	10	--	21	--	--	--	<3	--	3
JAN												
##18...	0.02	0.002	0.01	1.00	<1	22	<1	<1.0	1	<1	<1	5
FEB												
##14...	0.03	0.006	0.02	3.00	<1	22	<1	<1.0	1	<1	1	10
MAR												
##13...	0.03	0.003	0.01	2.00	<1	22	<1	<1.0	1	<1	1	5
MAY												
09...	<0.01	<0.001	--	4.00	9	21	<1	<1.0	<1	<1	1	3
#09...	<0.01	0.001	0.00	4.00	<1	22	<1	<1.0	<1	<1	1	3
15...	<0.01	0.001	0.00	4.00	<1	23	<1	<1.0	2	<1	1	8
#15...	0.01	0.003	0.01	3.00	<1	22	<1	<1.0	2	<1	1	6
JUN												
18...	0.03	<0.001	--	6.0	<1	22	<1.0	<1.0	<1.0	<1.0	<1.0	13
**18...	--	0.001	0.00	<0.30	--	<0.20	<0.20	<0.30	<0.20	<0.20	0.33	<3.0
#18...	<0.010	0.001	0.00	7.0	<1	22	<1.0	<1.0	<1.0	<1.0	<1.0	12
JUL												
16...	0.01	0.002	0.01	3.0	<1	20	<1.0	<1.0	1.0	<1.0	1.0	5.0
#16...	<0.01	0.001	0.00	4.0	<1	21	<1.0	<1.0	1.0	<1.0	<1.0	5.0
AUG												
13...	<0.01	<0.001	--	3.0	<1	22	<1.0	<1.0	1.0	<1.0	1.0	<3.0
#13...	<0.01	<0.001	--	2.0	<1	23	<1.0	<1.0	1.0	<1.0	1.0	<3.0
#13...	<0.01	<0.001	--	3.0	<1	22	<1.0	<1.0	<1.0	<1.0	1.0	7.0
##13...	<0.01	<0.001	--	3.0	<1	22	<1.0	<1.0	1.0	<1.0	1.0	<3.0
SEP												
17...	<0.01	0.010	0.03	2.0	<1	22	<1.0	<1.0	<1.0	<1.0	<1.0	6.0

DATE	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C) (00689)
OCT												
##12...	--	<4	2	10	2	<1	<1.0	160	<6	--	2.0	0.20
12...	--	<4	2	<10	<1	<1	<1.0	160	<6	--	1.9	0.1
NOV												
##21...	--	<4	1	<10	<1	<1	<1.0	170	<6	--	2.1	0.1
DEC												
##13...	--	<4	<1	<10	<1	<1	<1.0	170	<6	--	2.3	0.10
JAN												
##18...	<1	5	<1	1	2	<1	<1.0	170	<6	4	2.0	0.10
FEB												
##14...	<1	<4	1	1	1	<1	<1.0	170	<6	8	2.0	0.10
MAR												
##13...	<1	<4	1	1	2	<1	<1.0	170	<6	5	2.0	0.10
MAY												
09...	<1	<4	2	1	2	<1	<1.0	170	<6	11	2.8	0.20
#09...	<1	<4	2	1	2	<1	<1.0	160	<6	4	2.9	0.40
15...	<1	<4	2	<1	<1	<1	<1.0	160	<6	4	2.4	0.10
#15...	<1	<4	2	1	<1	<1	<1.0	160	<6	4	2.2	0.10
JUN												
18...	<1.0	<4	2.0	<1.0	1.0	<1	<1.0	170	<6	4.0	2.8	0.40
**18...	<0.30	--	<0.10	<0.20	<0.50	--	<0.20	<0.10	--	0.71	--	--
#18...	<1.0	<4	2.0	1.0	2.0	<1	<1.0	170	<6	<1.0	2.7	0.50
JUL												
16...	<1.0	<4	1.0	1.0	1.0	<1	<1.0	170	<6	2.0	2.3	0.10
#16...	<1.0	<4	1.0	1.0	1.0	<1	<1.0	170	<6	2.0	2.3	0.10
AUG												
13...	<1.0	<4	1.0	1.0	2.0	<1	<1.0	170	<6	4.0	2.1	0.40
#13...	<1.0	<4	1.0	1.0	2.0	<1	<1.0	170	<6	2.0	2.2	0.40
#13...	<1.0	<4	1.0	1.0	2.0	<1	<1.0	170	<6	1.0	2.1	0.40
##13...	<1.0	<4	1.0	1.0	2.0	<1	<1.0	160	<6	4.0	2.2	0.60
SEP												
17...	<1.0	<4	2.0	1.0	<1.0	<1	<1.0	170	<6	3.0	2.4	0.80

Sample collected in the dam.

Quality assurance sample - replicate.

** Quality assurance sample -- field blank.

Quality assurance sample - split.

Quality assurance sample - split sample of a replicate sample.

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY--Continued

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	*DIS- CHARGE, IN CUBIC FEET PER SECOND (00060)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
JAN			
†18...	0810	230000.	<1.0
FEB			
†14...	0915	260000.	<1.0
MAR			
†13...	0800	268000.	<1.0
MAY			
09...	1310	268000.	<1.0
†09...	1320	268000.	<1.0
15...	0840	249000.	<1.0
†15...	0850	249000.	<1.0
JUN			
18...	1230	296000.	<1.0
**18...	1238	--	<0.20
†18...	1240	296000.	<1.0
JUL			
16...	1100	292000.	<1.0
†16...	1110	292000.	<1.0
AUG			
13...	1140	294000.	<1.0
#13...	1145	294000.	<1.0
†13...	1150	294000.	<1.0
##13...	1155	294000.	<1.0
SEP			
17...	1120	279000.	<1.0

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)
OCT												
†12...	0820	<0.007	<0.002	0.012	E0.010	E0.022	0.028	<0.003	<0.002	<0.006	<0.004	<0.004
12...	1300	<0.007	<0.002	0.011	E0.009	E0.019	0.019	<0.003	<0.002	<0.006	<0.004	<0.004
**12...	1308	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	<0.004	<0.004
NOV												
†21...	0900	<0.007	<0.002	0.009	E0.006	E0.017	0.014	<0.003	<0.002	<0.006	<0.004	<0.004
DEC												
†13...	0830	<0.007	<0.002	0.016	<0.018	E0.028	0.017	<0.003	<0.002	<0.006	<0.004	<0.004
JAN												
†18...	0810	<0.007	<0.002	0.014	E0.005	E0.025	0.018	<0.003	<0.002	<0.006	<0.004	<0.004
FEB												
†14...	0915	<0.007	<0.002	0.012	E0.005	E0.038	0.015	<0.003	<0.002	<0.006	<0.004	<0.004
MAR												
†13...	0800	<0.007	<0.002	0.012	E0.005	E0.019	0.019	<0.003	<0.002	<0.006	<0.004	<0.004
MAY												
09...	1310	<0.007	<0.002	0.012	E0.007	E0.023	0.018	<0.003	<0.002	<0.006	<0.004	<0.004
†09...	1320	<0.007	<0.002	0.013	E0.006	E0.025	0.019	<0.003	<0.002	<0.006	<0.004	<0.004
15...	0840	<0.007	<0.002	0.010	E0.005	E0.024	0.015	<0.003	<0.002	<0.006	<0.004	<0.004
†15...	0850	<0.007	<0.002	0.009	E0.005	E0.028	0.015	<0.003	<0.002	<0.006	<0.004	<0.004
JUN												
18...	1230	<0.007	<0.002	0.006	E0.004	E0.007	0.008	<0.003	<0.002	<0.006	<0.004	<0.004
†18...	1240	<0.007	<0.002	0.007	E0.004	E0.007	0.007	<0.003	<0.002	<0.006	<0.004	<0.004
JUL												
16...	1100	<0.007	<0.002	0.014	E0.008	E0.027	0.026	<0.003	<0.002	<0.006	<0.004	<0.004
†16...	1110	<0.007	<0.002	0.014	E0.008	E0.027	0.025	<0.003	<0.002	<0.006	<0.004	<0.004
AUG												
13...	1140	<0.007	<0.002	0.015	E0.005	E0.015	0.016	<0.003	<0.002	<0.006	<0.004	<0.004
#13...	1145	<0.007	<0.002	0.015	E0.007	E0.018	0.018	<0.003	<0.002	<0.006	<0.004	<0.004
†13...	1150	<0.007	<0.002	0.013	E0.007	E0.027	0.020	<0.003	<0.002	<0.006	<0.004	<0.004
##13...	1155	<0.007	<0.002	0.010	E0.006	E0.015	0.016	<0.003	<0.002	<0.006	<0.004	<0.004
SEP												
17...	1120	<0.007	<0.002	0.023	E0.007	E0.028	0.019	<0.003	<0.002	<0.006	<0.004	<0.004
*17...	1128	<0.007	<0.002	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	<0.004	<0.004

* Daily discharge.

†† Sample collected in the dam.

† Quality assurance sample - replicate.

** Quality assurance sample -- field blank.

Quality assurance sample - split.

Quality assurance sample - split sample of a replicate sample.

E Estimate.

ST. LAWRENCE RIVER MAIN STEM

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

	DI- ELDRIN DIS-	METO- LACHLOR WATER	MALA- THION, DIS-	PARA- THION, DIS-	DI- AZINON, DIS-	ATRA- ZINE, WATER, DISS,	ALA- CHLOR, WATER, DISS,	ACETO- CHLOR, WATER, FLTRD	METRI- BUZIN SENSOR WATER	2,6-DI- ETHYL ANILINE WAT FLT	TRI- FLUR- ALIN WAT FLT	ETHAL- FLUR- ALIN WAT FLT
DATE	SOLVED (UG/L) (39381)	DISSOLV (UG/L) (39415)	SOLVED (UG/L) (39532)	SOLVED (UG/L) (39542)	SOLVED (UG/L) (39572)	REC (UG/L) (39632)	REC, (UG/L) (46342)	REC (UG/L) (49260)	DISSOLV (UG/L) (82630)	GF, REC (UG/L) (82660)	GF, REC (UG/L) (82661)	GF, REC (UG/L) (82663)
OCT												
**12...	<0.001	0.026	<0.005	<0.004	<0.002	0.098	E0.003	<0.002	<0.004	<0.003	<0.002	<0.004
12...	<0.001	0.023	<0.005	<0.004	<0.002	0.092	E0.003	<0.002	<0.004	<0.003	<0.002	<0.004
**12...	<0.001	<0.002	<0.005	<0.004	<0.002	<0.001	<0.002	<0.002	<0.004	<0.003	<0.002	<0.004
NOV												
**21...	<0.001	0.015	<0.005	<0.004	<0.002	0.110	<0.002	<0.002	<0.004	<0.003	<0.002	<0.004
DEC												
**13...	<0.001	0.028	<0.005	<0.004	<0.002	0.120	<0.002	<0.002	<0.004	<0.003	<0.002	<0.004
JAN												
**18...	<0.001	0.017	<0.005	<0.004	<0.002	0.098	<0.002	<0.002	<0.004	<0.003	<0.002	<0.004
FEB												
**14...	<0.001	0.018	<0.005	<0.004	<0.002	0.110	<0.002	<0.002	<0.004	<0.003	<0.002	<0.004
MAR												
**13...	<0.001	0.016	<0.005	<0.004	<0.002	0.096	<0.002	<0.002	<0.004	<0.003	<0.002	<0.004
MAY												
09...	<0.001	0.015	<0.005	<0.004	<0.002	0.102	<0.002	<0.002	<0.004	<0.003	<0.002	<0.004
*09...	<0.001	0.014	<0.005	<0.004	<0.002	0.103	<0.002	<0.002	<0.004	<0.003	<0.002	<0.004
15...	<0.001	0.020	<0.005	<0.004	<0.002	0.095	<0.002	<0.002	<0.004	<0.003	<0.002	<0.004
*15...	<0.001	0.020	<0.005	<0.004	<0.002	0.097	<0.002	<0.002	<0.004	<0.003	<0.002	<0.004
JUN												
18...	<0.001	0.020	<0.005	<0.004	<0.002	0.084	E0.002	<0.002	<0.004	<0.003	<0.002	<0.004
*18...	<0.001	0.020	<0.005	<0.004	<0.002	0.083	<0.002	<0.002	<0.004	<0.003	<0.002	<0.004
JUL												
16...	<0.001	0.023	<0.005	<0.004	<0.002	0.110	0.005	<0.002	<0.004	<0.003	<0.002	<0.004
*16...	<0.001	0.021	<0.005	<0.004	<0.002	0.100	0.005	<0.002	<0.004	<0.003	<0.002	<0.004
AUG												
13...	<0.001	0.020	<0.005	<0.004	<0.002	0.099	<0.002	<0.002	<0.004	<0.003	<0.002	<0.004
#13...	<0.001	0.023	<0.005	<0.004	<0.002	0.111	<0.002	<0.002	<0.004	<0.003	<0.002	<0.004
*13...	<0.001	0.021	<0.005	<0.004	<0.002	0.108	<0.002	<0.002	<0.004	<0.003	<0.002	<0.004
#13...	<0.001	0.022	<0.005	<0.004	<0.002	0.099	<0.002	<0.002	<0.004	<0.003	<0.002	<0.004
SEP												
17...	<0.001	0.019	<0.005	<0.004	<0.002	0.094	E0.003	<0.002	<0.004	<0.003	<0.002	<0.004
**17...	<0.001	<0.002	<0.005	<0.004	<0.002	<0.001	<0.002	<0.002	<0.004	<0.003	<0.002	<0.004
	PHORATE WATER FLTRD 0.7 U	TER- BACIL WATER FLTRD 0.7 U	LIN- URON WATER FLTRD 0.7 U	METHYL PARA- THION WAT FLT 0.7 U	EPTC WATER FLTRD 0.7 U	PEB- ULATE WATER FLTRD 0.7 U	TEBU- THIURON WATER FLTRD 0.7 U	MOL- INATE WATER FLTRD 0.7 U	ETHO- PROP WATER FLTRD 0.7 U	BEN- FLUR- ALIN WAT FLD 0.7 U	CARBO- FURAN WATER FLTRD 0.7 U	TER- BUFOS WATER FLTRD 0.7 U
DATE	GF, REC (UG/L) (82664)	GF, REC (UG/L) (82665)	GF, REC (UG/L) (82666)	GF, REC (UG/L) (82667)	GF, REC (UG/L) (82668)	GF, REC (UG/L) (82669)	GF, REC (UG/L) (82670)	GF, REC (UG/L) (82671)	GF, REC (UG/L) (82672)	GF, REC (UG/L) (82673)	GF, REC (UG/L) (82674)	GF, REC (UG/L) (82675)
OCT												
**12...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.01	<0.004	<0.003	<0.002	<0.003	<0.013
12...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.01	<0.004	<0.003	<0.002	<0.003	<0.013
**12...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.01	<0.004	<0.003	<0.002	<0.003	<0.013
NOV												
**21...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004	<0.003	<0.002	<0.003	<0.013
DEC												
**13...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004	<0.003	<0.002	<0.003	<0.013
JAN												
**18...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004	<0.003	<0.002	<0.003	<0.013
FEB												
**14...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	E0.008	<0.004	<0.003	<0.002	<0.003	<0.013
MAR												
**13...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004	<0.003	<0.002	<0.003	<0.013
MAY												
09...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004	<0.003	<0.002	<0.003	<0.013
*09...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004	<0.003	<0.002	<0.003	<0.013
15...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004	<0.003	<0.002	<0.003	<0.013
*15...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004	<0.003	<0.002	<0.003	<0.013
JUN												
18...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004	<0.003	<0.002	<0.003	<0.013
*18...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004	<0.003	<0.002	<0.003	<0.013
JUL												
16...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004	<0.003	<0.002	<0.003	<0.013
*16...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004	<0.003	<0.002	<0.003	<0.013
AUG												
13...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004	<0.003	<0.002	<0.003	<0.013
#13...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004	<0.003	<0.002	<0.003	<0.013
*13...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004	<0.003	<0.002	<0.003	<0.013
#13...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004	<0.003	<0.002	<0.003	<0.013
SEP												
17...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	E0.005	<0.004	<0.003	<0.002	<0.003	<0.013
**17...	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004	<0.003	<0.002	<0.003	<0.013

Sample collected in the dam.

E Estimate.

** Quality assurance sample -- field blank.

Quality assurance sample - replicate.

Quality assurance sample - split.

Quality assurance sample - split sample of a replicate sample.

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI-METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL-AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
OCT												
##12...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	E0.002	<0.004	<0.003	<0.01	<0.001	<0.005
12...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	E0.002	<0.004	<0.003	<0.01	<0.001	<0.005
**12...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	<0.002	<0.004	<0.003	<0.01	<0.001	<0.005
NOV												
##21...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	E0.000	<0.004	<0.003	<0.013	<0.001	<0.005
DEC												
##13...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	E0.002	<0.004	<0.003	<0.013	<0.001	<0.005
JAN												
##18...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	E0.002	<0.004	<0.003	<0.013	<0.001	<0.005
FEB												
##14...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	E0.001	0.031	<0.003	<0.013	<0.001	<0.005
MAR												
##13...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005
MAY												
09...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	<0.002	<0.004	<0.003	E0.003	<0.001	<0.005
#09...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005
15...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	E0.002	<0.004	<0.003	<0.013	<0.001	<0.005
#15...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005
JUN												
18...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	E0.001	<0.004	<0.003	<0.013	<0.001	<0.005
#18...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	E0.002	<0.004	<0.003	<0.013	<0.001	<0.005
JUL												
16...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	E0.003	<0.004	<0.003	<0.013	<0.001	<0.005
#16...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	E0.003	<0.004	<0.003	<0.013	<0.001	<0.005
AUG												
13...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	E0.002	<0.004	<0.003	<0.013	<0.001	<0.005
#13...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	E0.002	<0.004	<0.003	<0.013	<0.001	<0.005
#13...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005
##13...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	E0.002	<0.004	<0.003	<0.013	<0.001	<0.005
SEP												
17...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005
**17...	<0.003	<0.017	<0.001	<0.004	<0.003	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005

CHEMICAL ANALYSES OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	*DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	AN-TIMONY SED. SUSP. (UG/G) (29816)	ARSENIC SED. SUSP. (UG/G) (29818)	BARIUM SED. SUSP. (UG/G) (29820)	BERYL-LIUM SED. SUSP. (UG/G) (29822)	CADMIUM SED. SUSP. (UG/G) (29826)	CHRO-MIUM SED. SUSP. (UG/G) (29829)	COPPER SED. SUSP. (UG/G) (29832)	LEAD SED. SUSP. (UG/G) (29836)
JUN										
18...	1230	296000.	0	4	1300	1	1	58	22	18
JUL										
16...	1100	292000.	1	5	560	1	1	67	37	49
AUG										
13...	1140	294000.	1	5	610	1	0	68	14	20
SEP										
17...	1120	279000.	13	6	460	1	1	120	48	55

DATE	MAN-GANESE SED. SUSP. (UG/G) (29839)	MERCURY SED. SUSP. (UG/G) (29841)	MOLYB-DENUM SED. SUSP. (UG/G) (29843)	NICKEL SED. SUSP. (UG/G) (29845)	SELE-NIUM SED. SUSP. (UG/G) (29847)	SILVER SED. SUSP. (UG/G) (29850)	VANA-DIUM SED. SUSP. (UG/G) (29853)	ZINC SED. SUSP. (UG/G) (29855)	ALUM-INUM SED,SUS PERCENT (30221)	CARBON SED. SUSP. PERCENT (30244)
JUN										
18...	550	0	<5	33	1	<1	52	150	5.1	7.4
JUL										
16...	1000	1	<5	33	1	--	57	190	5.6	--
AUG										
13...	540	0	6	42	0	--	40	75	4.2	2.8
SEP										
17...	1100	--	7	72	1	--	50	300	4.6	--

Sample collected in the dam.

E Estimate.

** Quality assurance sample -- field blank.

+ Quality assurance sample - replicate.

Quality assurance sample - split.

Quality assurance sample - split sample of a replicate sample.

* Daily discharge.

ST. LAWRENCE RIVER MAIN STEM

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY--Continued
 CHEMICAL ANALYSES OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	IRON SEDI- MENT SUSP. (30269)	PHOS- PHORUS SEDI- MENT SUSP. (30292)	SULFUR SEDI- MENT SUSP. (30308)	TITA- NIUM SEDI- MENT SUSP. (30317)	COBALT SEDI- MENT SUSP. (35031)	STRON- TIUM SEDI- MENT SUSP. (35040)	URANIUM SEDI- MENT SUSP. (35046)	LITHIUM SEDI- MENT SUSP. (35050)	THAL- LIUM SUS SED (49955)
JUN 18...	2.4	0.17	0.30	0.33	9	310	<50	18	<50
JUL 16...	2.8	0.15	0.00	0.35	12	270	<50	21	<50
AUG 13...	1.8	0.08	0.10	0.20	7	250	<50	12	<50
SEP 17...	2.3	0.16	0.00	0.27	10	360	<50	21	<50

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	*DIS- CHARGE, IN CUBIC FEET PER SECOND (00060)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT					
##12...	0820	229000.	1	618	75
12...	1300	229000.	1	618	54
NOV					
##21...	0900	278000.	1	751	50
DEC					
##13...	0830	227000.	2	1230	61
JAN					
##18...	0810	230000.	1	621	57
MAR					
##13...	0800	268000.	6	4340	23
MAY					
09...	1310	268000.	4	2890	35
15...	0840	249000.	2	1340	53
##15...	0850	249000.	1	672	33
JUN					
18...	1230	296000.	2	1600	83
##18...	1240	296000.	3	2400	68
JUL					
16...	1100	292000.	6	4730	41
##16...	1110	292000.	10	11000	30
AUG					
13...	1140	294000.	3	2380	60
##13...	1150	294000.	4	3180	73
SEP					
17...	1120	279000.	5	3770	65

* Daily discharge.

Sample collected in the dam.

Quality assurance sample - replicate.

ST. LAWRENCE RIVER BASIN

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04266500 RAQUETTE RIVER AT PIERCEFIELD, NY

LOCATION.--Lat 44°14'05", long 74°34'20", St. Lawrence County, Hydrologic Unit 04150305, on left bank 0.5 mi downstream from powerplant at Piercefield, and 1.5 mi upstream from Dead Creek.

DRAINAGE AREA.--721 mi².

PERIOD OF RECORD.--August 1908 to current year.

REVISED RECORDS.--WSP 604: 1924. WSP 1387: 1910, 1913, 1914(M), 1916, 1921. WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,502.12 ft above sea level. Prior to Jan. 1, 1911, nonrecording gage at present site at datum 2.00 ft higher and Jan. 1, 1911 to Oct. 21, 1912, nonrecording gage at present site and datum.

REMARKS.--No estimated daily discharges. Records good. Seasonal distribution of flow modified by natural storage in lakes and ponds upstream from station and by regulation of Forked Lake, Round Lake, Lows Lake, and Raquette Pond (Tupper Lake) at Setting Pole Dam. Extensive diurnal fluctuation caused by powerplant at Piercefield. Telephone gage-height telemeter at station.

AVERAGE DISCHARGE.--88 years, 1,322 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,630 ft³/s, Apr. 27, 1993, gage height, 12.04 ft; maximum gage height, 12.25 ft, May 8, 1972; minimum daily, 4.1 ft³/s, Oct. 12, 1947.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, about 7,000 ft³/s, May 1, 1900 (from New York State Museum Bulletin 85).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,060 ft³/s, Apr. 27, gage height, 10.51 ft; minimum daily, 107 ft³/s, Aug. 26.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	592	3000	1700	785	2890	1840	1290	5660	2780	1500	1090	127
2	598	2960	1670	776	2860	1840	1440	5540	2620	1460	813	293
3	532	2900	1650	772	2700	1840	1520	5480	2480	1380	720	112
4	543	2830	1580	761	2600	1810	1640	5370	2340	1340	809	272
5	658	2800	1300	755	2460	1700	1760	5260	2230	1290	597	121
6	884	2780	1450	672	2340	1730	1730	5090	2130	1460	405	226
7	853	2740	1410	746	2250	1720	1700	4910	2140	1710	405	147
8	916	2620	1360	621	2160	1690	1660	4690	2350	1880	532	164
9	706	2550	1290	686	2080	1620	1650	4470	2520	2130	407	214
10	547	2500	1110	171	1960	1560	1640	4280	2620	2180	531	149
11	544	2390	1150	208	1900	1530	1580	4340	2700	2140	521	217
12	542	2530	1030	227	1850	1510	1590	4680	2740	2080	420	197
13	538	2540	1140	272	1760	1490	1610	5090	2760	2020	515	267
14	494	2560	1060	283	1440	1460	1680	5310	2760	1920	411	119
15	402	2630	1120	315	850	1330	1770	5380	2780	1960	405	282
16	526	2680	1130	411	854	1150	2140	5330	2780	1880	405	122
17	787	2630	1010	370	957	1060	2430	5160	2750	1900	405	270
18	896	2610	1120	710	895	1070	2680	4950	2670	1860	403	115
19	1070	2560	878	1050	985	1090	2960	4840	2480	1860	317	253
20	1330	2500	832	1580	1200	1110	3080	4590	2520	1830	197	119
21	1570	2440	861	2000	1420	1140	3340	4500	2310	1820	207	173
22	2360	2340	799	2340	1590	1160	3660	4400	2250	1820	140	209
23	2750	2280	901	2600	1700	1160	4170	4300	2230	1770	108	117
24	3180	2190	809	2990	1760	1160	4880	4160	2150	1610	109	176
25	3350	2110	916	3220	1830	1170	5370	4010	2120	1390	110	264
26	3340	1950	795	3100	1780	1210	5640	3860	2060	1370	107	119
27	3300	1760	913	3050	1710	1290	5910	3690	1790	1340	279	279
28	3220	1750	791	3030	1780	1390	6000	3510	1540	1320	126	262
29	3130	1740	843	2950	1830	1250	5910	3290	1540	1300	279	350
30	3090	1710	828	2950	---	1400	5770	3100	1540	1110	120	236
31	3050	---	786	2920	---	1390	---	2940	---	1160	279	---
TOTAL	46298	73580	34232	43321	52391	43870	88200	142180	70680	51790	12172	5971
MEAN	1493	2453	1104	1397	1807	1415	2940	4586	2356	1671	393	199
MAX	3350	3000	1700	3220	2890	1840	6000	5660	2780	2180	1090	350
MIN	402	1710	786	171	850	1060	1290	2940	1540	1110	107	112

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 1996, BY WATER YEAR (WY)

	MEAN	876	1164	1249	1072	931	1284	3117	2937	1308	732	584	605
MAX	3292	2676	3439	2934	2148	3577	5405	6094	3982	2461	1867	1614	
(WY)	1946	1989	1984	1985	1916	1921	1993	1943	1947	1972	1986	1938	
MIN	54.7	133	348	343	319	325	1230	878	396	324	182	112	
(WY)	1948	1909	1931	1918	1961	1940	1995	1987	1941	1995	1934	1913	

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1908 - 1996	
ANNUAL TOTAL	409730		664685			
ANNUAL MEAN	1123		1816		1322	
HIGHEST ANNUAL MEAN					2030	
LOWEST ANNUAL MEAN					734	
HIGHEST DAILY MEAN	3350	Oct 25	6000	Apr 28	8500	Apr 27 1993
LOWEST DAILY MEAN	112	Jul 15	107	Aug 26	4.1	Oct 12 1947
ANNUAL SEVEN-DAY MINIMUM	164	Jul 12	140	Aug 20	4.6	Oct 10 1947
10 PERCENT EXCEEDS	2530		3550		2890	
50 PERCENT EXCEEDS	916		1610		934	
90 PERCENT EXCEEDS	218		269		356	

ST. LAWRENCE RIVER BASIN

04267500 RAQUETTE RIVER AT SOUTH COLTON, NY

LOCATION.--Lat 44°30'42", long 74°53'00", St. Lawrence County, Hydrologic Unit 04150305, on left bank 300 ft upstream from bridge on State Highway 56 at South Colton, 500 ft downstream from Niagara Mohawk Power Corporation powerplant, and 0.8 mi upstream from Cold Brook.

DRAINAGE AREA.--937 mi².

PERIOD OF RECORD.--January 1953 to current year.

REVISED RECORDS.--WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 882.05 ft above sea level.

REMARKS.--No estimated daily discharges. Records good except those below 800 ft³/s, which are poor. Flow regulated 16 mi upstream by Carry Falls Reservoir since 1953; considerable natural storage in large lakes upstream from Piercefield. Large diurnal fluctuation caused by five powerplants upstream from gage. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--43 years, 1,810 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,720 ft³/s, May 11, 1971, gage height, 9.80 ft; minimum, 1.3 ft³/s, Feb. 1, 1962, Aug. 8, 1964; minimum gage height, 1.38 ft, Nov. 16, 1994; minimum daily discharge, 4.6 ft³/s, June 2, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,090 ft³/s, May 13, gage height, 8.95 ft; minimum, 16 ft³/s, Sept. 4, 6, 8, gage height, 1.57 ft; minimum daily, 271 ft³/s, Sept. 4.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	502	1630	2680	1180	2890	3270	1360	6020	3290	1690	1530	532
2	488	1870	2510	1740	3130	3480	1410	5930	3550	1640	1310	485
3	550	2700	2450	1340	2850	3350	1720	5740	2050	1580	2000	911
4	705	2500	2800	1500	2830	3460	1920	5570	2290	1200	1530	271
5	418	2890	2740	1430	3200	3410	1780	5480	2790	2460	1360	564
6	488	2260	2800	1460	3210	3180	1900	5490	2470	2780	1630	712
7	659	2800	2750	1410	2920	2910	1800	5480	2470	2260	1550	622
8	1050	2650	2620	887	3190	3580	2090	5320	3100	1930	1690	552
9	713	2480	2530	1060	3070	2670	2000	5030	3650	1860	1490	497
10	934	2800	2600	963	3010	3430	1440	5260	4030	2580	1580	522
11	1120	3050	2660	1070	2940	2780	1520	5530	3910	2890	1570	543
12	972	2530	2280	1040	2960	2410	1450	6850	3870	2740	1350	816
13	996	3390	1810	906	3040	2010	1220	7060	3840	2910	1570	425
14	898	3240	1440	898	3070	1420	1120	7100	4340	2750	1370	585
15	953	3270	1050	1150	3180	1330	979	6590	3670	2660	1470	692
16	794	3460	1330	1120	2800	1280	1570	6300	3700	2560	1750	1360
17	1220	3400	1530	996	2890	1370	1420	5940	3560	2690	1640	990
18	952	3350	1040	1140	2990	1320	1310	6590	3550	2890	1540	622
19	1480	3480	1500	991	2870	1410	1580	5630	3060	2860	1550	375
20	1460	3660	1770	1370	3100	1360	1620	5540	2780	2740	1500	653
21	1350	3820	1720	948	3220	1290	1860	4430	2620	2750	1440	494
22	971	3650	1570	1010	3400	1270	2590	5290	2550	2730	1530	657
23	1280	3640	1310	1090	3490	1640	3270	5010	2140	2840	1450	646
24	1440	3640	1430	1060	3400	1460	3610	4590	2840	2750	1550	426
25	1040	3440	1460	1170	3330	1380	3660	4760	2960	2580	1380	482
26	1560	2650	1480	2120	3430	1240	3680	4490	2410	1990	1150	562
27	2150	2530	1310	2840	3210	1250	6280	4300	2310	1740	1420	496
28	2500	2980	1430	3320	3450	1250	5360	4030	2500	1600	1380	423
29	2790	2620	1530	2990	3320	1480	5340	3590	2140	1780	1360	483
30	1800	3190	1540	2670	---	1270	5370	3280	1750	1540	1180	472
31	1260	---	1460	2650	---	1250	---	3310	---	1500	617	---
TOTAL	35493	89570	59130	45519	90390	64210	72229	165530	90190	71470	45437	17870
MEAN	1145	2986	1907	1468	3117	2071	2408	5340	3006	2305	1466	596
MAX	2790	3820	2800	3320	3490	3580	6280	7100	4340	2910	2000	1360
MIN	418	1630	1040	887	2800	1240	979	3280	1750	1200	617	271

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 1996, BY WATER YEAR (WY)

MEAN	1413	1629	1778	1649	1637	2010	3151	3163	1772	1250	1142	1090
MAX	3849	3248	4208	4138	3117	3985	5568	6260	3496	3356	2990	1816
(WY)	1978	1986	1984	1985	1996	1990	1954	1971	1972	1986	1986	1986
MIN	625	386	435	673	595	657	980	1041	656	462	535	557
(WY)	1965	1965	1965	1956	1961	1956	1995	1987	1962	1988	1985	1995

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1953 - 1996	
ANNUAL TOTAL	528699		847038			
ANNUAL MEAN	1448		2314		1810	
HIGHEST ANNUAL MEAN					2661	
LOWEST ANNUAL MEAN					984	
HIGHEST DAILY MEAN	3820	Nov 21	7100	May 14	9060	May 14 1971
LOWEST DAILY MEAN	267	Sep 12	271	Sep 4	4.6	Jun 2 1954
ANNUAL SEVEN-DAY MINIMUM	474	Sep 10	478	Sep 24	239	Nov 1 1964
10 PERCENT EXCEEDS	2630		3850		3430	
50 PERCENT EXCEEDS	1310		1960		1530	
90 PERCENT EXCEEDS	540		809		600	

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LOCATION.--Lat 44°50'20", long 74°58'45", St. Lawrence County, Hydrologic Unit 04150305, on right bank 250 ft upstream from bridge on Grant Road at Raymondville, 0.3 mi downstream from Trout Brook, 0.4 mi downstream from Niagara Mohawk Power Corporation powerplant, and 18.0 mi upstream from mouth.

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

REVISED RECORDS.--WDR NY-82-1: Drainage area. WDR NY-85-1: 1983-84.

GAGE.--Water-stage recorder. Datum of gage is 183.33 ft above sea level.

REMARKS.---Records good except those for estimated daily discharges, which are poor. Extensive diurnal fluctuation caused by power and industrial operations. Flow regulated since 1953 by Carry Falls Reservoir, about 46 mi upstream and by Niagara Mohawk Power Corporation powerplant, 0.4 mi upstream; considerable natural storage in large lakes upstream from Piercefield. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--52 years (water years 1945-96), 2,117 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,000 ft³/s, Apr. 5, 1974, gage height, 8.40 ft; maximum gage height, 9.24 ft, Feb. 22, 1954 (ice jam); minimum discharge, 2.2 ft³/s, Sept. 18, 19, 1966; minimum gage height, 0.42 ft, July 13, 1950; minimum daily discharge, 7.0 ft³/s, Oct. 15, 1951.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,100 ft³/s, May 13, gage height, 7.19 ft; maximum gage height, 8.49 ft, Jan. 20 (ice jam); minimum discharge, 42 ft³/s, Oct. 1, 2, 3, 4, 5, gage height, 0.77 ft; minimum daily, 386 ft³/s, Sept. 7.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	494	1590	e3000	e1700	e3800	e3900	1500	6200	3710	1700	1760	553
2	524	1930	e2900	e2100	e4000	e3900	1670	6640	3710	1700	1740	586
3	616	3430	3160	e1800	e3800	4000	1650	6540	3400	1580	1670	700
4	500	3600	2970	e1800	e3700	4100	2000	6170	2200	1790	1550	546
5	593	3510	3270	e1900	e4000	4050	2300	6170	2920	3310	1620	623
6	1060	3400	3050	e1800	e4100	3950	2270	6100	3120	3790	1690	711
7	1250	3210	3030	e1800	e3800	3380	2280	6090	2900	2800	1570	386
8	1150	2320	3010	e1500	e4000	e4000	2290	5980	3140	2380	1590	648
9	1120	2840	3080	e1300	e3900	e3800	2330	5770	4840	2150	1520	582
10	1110	3000	3160	e1300	e3800	e3400	2260	5310	4710	2990	1650	653
11	1050	2940	3290	e1400	e3800	e2700	1930	6340	4890	3030	1550	779
12	1030	3200	3190	e1300	e3800	2540	1890	9170	4530	3120	1600	1620
13	1010	3470	2660	e1200	e3900	2390	1730	10200	4290	2960	1610	1750
14	1040	3890	e2000	e1300	e4000	1930	1850	8920	4610	3050	1510	601
15	1140	3940	e1400	e1500	e4000	2130	1890	8250	4680	3250	1600	563
16	899	4030	e1800	e1400	e3900	1970	2230	6920	4060	3560	1630	416
17	1350	4070	e1900	e1400	e3700	1890	3710	6850	4040	3340	1690	555
18	1400	4070	e1500	e1400	e3700	1800	2820	6740	3980	3260	1630	588
19	1380	4040	e2000	e4000	e3700	1650	2420	7200	3670	3170	1390	634
20	1410	4120	e2200	e7000	e3900	1770	2680	6450	2960	3180	1600	678
21	1440	4170	e2200	e5000	e4100	1750	3330	5690	2900	3130	1520	657
22	2210	4260	e2000	e3300	e4300	1820	3730	5620	2950	3120	1700	609
23	2200	4340	e1800	e2400	e4400	1700	4420	5630	2780	3170	1630	453
24	1910	4260	e1800	e2000	e4400	1660	5570	5520	2440	3010	1610	572
25	1320	4130	e1800	e2600	e4300	1690	5490	5220	3760	3220	1630	633
26	1680	3130	e1900	e3100	e4300	1880	5000	4920	2890	2290	1540	455
27	1920	3170	e1800	e3900	e4200	1820	5880	4880	2620	1980	1450	449
28	3150	3360	e1800	e4300	e4100	1840	6700	4730	2700	1810	1480	562
29	3230	3170	e1900	e4100	e4000	1740	6000	4270	2570	1780	1420	657
30	2370	3110	e1800	e3800	---	1710	6030	3720	2280	1750	1520	561
31	1470	---	e1700	e3500	---	1670	---	3660	---	1740	618	---
TOTAL	43026	103700	73070	76900	115400	78530	95850	191870	104250	83110	48288	19780
MEAN	1388	3457	2357	2481	3979	2533	3195	6189	3475	2681	1558	659
MAX	3230	4340	3290	7000	4400	4100	6700	10200	4890	3790	1760	1750
MIN	494											

MEAN	1630	1969	2109	1939	1967	2568	3893	3560	2022	1390	1270	1256
MAX	4545	3776	5228	5021	3979	4723	7005	6768	3602	3623	3454	2244
(WY)	1978	1986	1984	1985	1996	1990	1993	1971	1972	1972	1986	1981
MIN	756	500	684	699	672	866	1140	1209	807	518	630	573
(WY)	1965	1965	1965	1956	1956	1956	1995	1987	1962	1988	1993	1995

ANNUAL TOTAL	611902		1033774				
ANNUAL MEAN	1676		2825			2131	
HIGHEST ANNUAL MEAN						3022	1976
LOWEST ANNUAL MEAN						1148	1965
HIGHEST DAILY MEAN	4340	Nov 23	10200	May 13	11100		Apr 26 1993
LOWEST DAILY MEAN	197	Sep 18	386	Sep 7	8.1		Jul 30 1962
ANNUAL SEVEN-DAY MINIMUM	489	Sep 17	533	Sep 22	345		Nov 22 1953
10 PERCENT EXCEEDS	3200		4880		4000		
50 PERCENT EXCEEDS	1440		2550		1700		
90 PERCENT EXCEEDS	578		1020		845		

e Estimated

ST. LAWRENCE RIVER BASIN

04268800 WEST BRANCH ST. REGIS RIVER NEAR PARISHVILLE, NY

LOCATION.--Lat 44°35'55", long 74°44'15", St. Lawrence County, Hydrologic Unit 04150306, on right bank 25 ft upstream from highway bridge, 4.1 mi downstream from Mud Pond Outlet, 4.8 mi upstream from Niagara Mohawk Power Corp. dam, and 4.2 mi southeast of Parishville.

DRAINAGE AREA.--171 mi².

PERIOD OF RECORD.--October 1958 to September 1968, June 1991 to current year. Annual maximum, water years 1969-91.

GAGE.--Water-stage recorder. Datum of gage is 971.64 ft above sea level. October 1968 to May 1991, crest-stage gage at present site and datum.

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

AVERAGE DISCHARGE.--15 years (water years 1959-68, 1992-96), 310 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,960 ft³/s, Dec. 29, 1984, gage height, 7.37 ft; maximum gage height, 7.51 ft, Feb. 25, 1985 (ice jam); minimum recorded discharge, 50 ft³/s, Aug. 1, 2, 1965, Sept. 5, 1995, gage height, 0.92 ft; minimum daily discharge, about 46 ft³/s, Feb. 1, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 20	0400	*4,040	*6.05	May 12	2245	1,880	3.82
Apr. 24	1030	2,650	4.64				

Minimum discharge, 72 ft³/s, Oct. 3, 4, Sept. 8, gage height, 1.06 ft; minimum daily, 74 ft³/s, Oct. 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	316	269	e130	e330	e800	506	929	257	205	175	96
2	79	373	305	e120	e290	e680	487	945	231	184	182	90
3	74	447	256	e120	e250	e620	455	844	209	162	178	88
4	131	433	277	e120	e240	e500	404	776	197	354	155	85
5	226	368	253	e110	e220	e400	365	726	199	731	159	82
6	514	317	248	e110	e200	e320	342	666	193	577	143	79
7	764	282	218	e110	e200	e270	361	595	226	412	122	75
8	582	272	179	e100	e210	e240	379	523	496	319	116	83
9	440	257	e180	e100	e230	e230	363	466	599	260	123	151
10	301	226	e170	e100	e250	e220	347	514	676	232	130	176
11	226	231	e170	e110	e260	e210	337	1030	645	236	119	156
12	187	464	e160	e110	e270	e200	437	1630	798	209	106	129
13	166	592	e160	e100	e240	e200	580	1780	818	177	97	111
14	153	526	e170	e100	e220	e200	743	1590	746	175	92	119
15	284	476	e180	e98	e200	e250	782	1350	608	314	91	129
16	394	454	e170	e100	e190	e320	1150	1050	480	908	102	144
17	356	411	e170	e160	e180	e300	1350	826	366	937	101	213
18	285	348	e160	e500	e170	e270	1150	694	293	767	96	230
19	227	333	e160	e1200	e160	e320	1100	763	243	557	91	184
20	192	299	e160	3740	e160	377	1280	673	213	584	85	139
21	301	285	e150	2750	e180	389	2120	705	218	464	94	119
22	1370	283	e150	e1800	e220	358	2330	716	282	349	134	103
23	1200	268	e150	e1500	e430	322	2320	598	448	268	137	98
24	954	228	e150	e1200	e740	e280	2580	522	445	231	207	90
25	768	212	e150	e1000	e1100	295	2170	447	396	211	227	109
26	591	250	e140	e920	e1400	580	1710	386	316	188	210	136
27	464	228	e140	e1000	e1200	634	1630	339	256	168	228	129
28	384	e250	e130	e1200	e1100	516	1340	302	235	154	198	140
29	394	e260	e130	e1000	e940	458	1030	282	221	141	152	283
30	394	248	e130	e740	---	432	863	282	206	135	123	339
31	340	---	e130	e550	---	454	---	281	---	141	106	---
TOTAL	12829	9937	5565	20998	11780	11645	31011	23230	11516	10750	4279	4105
MEAN	414	331	180	677	406	376	1034	749	384	347	138	137
MAX	1370	592	305	3740	1400	800	2580	1780	818	937	228	339
MIN	74	212	130	98	160	200	337	281	193	135	85	75
CFSM	2.42	1.94	1.05	3.96	2.38	2.20	6.05	4.38	2.24	2.03	.81	.80
IN.	2.79	2.16	1.21	4.57	2.56	2.53	6.75	5.05	2.51	2.34	.93	.89

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1996, BY WATER YEAR (WY)

	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
MEAN	236	322	245	246	193	330	970	431	249	166	165	151
MAX	414	557	345	677	406	545	1780	749	384	347	292	233
(WY)	1996	1993	1968	1996	1996	1995	1993	1996	1996	1996	1962	1992
MIN	97.8	185	111	67.0	106	149	312	233	123	75.0	69.9	91.6
(WY)	1965	1961	1961	1961	1963	1965	1995	1995	1991	1966	1960	1964

e Estimated

ST. LAWRENCE RIVER BASIN

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04268800 WEST BRANCH ST. REGIS RIVER NEAR PARISHVILLE, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1959 - 1996	
ANNUAL TOTAL	100004		157645			
ANNUAL MEAN	274		431		310	
HIGHEST ANNUAL MEAN					431	1996
LOWEST ANNUAL MEAN					198	1965
HIGHEST DAILY MEAN	2140	Jan 16	3740	Jan 20	3740	Jan 20 1996
LOWEST DAILY MEAN	52	Sep 5	74	Oct 3	46	Feb 1 1961
ANNUAL SEVEN-DAY MINIMUM	56	Sep 1	83	Sep 2	47	Jan 28 1961
ANNUAL RUNOFF (CFSM)	1.60		2.52		1.81	
ANNUAL RUNOFF (INCHES)	21.76		34.29		24.62	
10 PERCENT EXCEEDS	537		968		618	
50 PERCENT EXCEEDS	203		264		200	
90 PERCENT EXCEEDS	69		110		90	

ST. LAWRENCE RIVER BASIN

04269000 ST. REGIS RIVER AT BRASHER CENTER, NY

LOCATION.--Lat 44°51'49", long 74°46'45", St. Lawrence County, Hydrologic Unit 04150306, on left bank 600 ft upstream from highway bridge at Brasher Center, and 6.5 mi downstream from West Branch.

DRAINAGE AREA.--612 mi².

PERIOD OF RECORD.--August 1910 to October 1917, November 1917 to December 1918 (monthly discharges only, published in WSP 1307), January 1919 to September 1996 (discontinued).

REVISED RECORDS.--WSP 1387: 1910-16, 1917(M), WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 217.23 ft above sea level. Prior to June 24, 1916, nonrecording gage at site 600 ft downstream at different datum. June 24, 1916 to Nov. 10, 1917, and Jan. 1, 1919 to Aug. 13, 1920, nonrecording gage at present site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Slight diurnal fluctuation caused by powerplant operations upstream from station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--86 years (water years 1911-96), 1,054 ft³/s, 23.39 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft³/s, Apr. 6, 1937, gage height, 12.82 ft; maximum gage height recorded, about 15.3 ft, Apr. 6, 1937 (ice jam); minimum discharge observed, about 34 ft³/s, Aug. 8, 1917, gage height, 5.25 ft; minimum daily, 37 ft³/s, Aug. 8, 1917.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,600 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 20	0230	*9,670	*10.72	May 13	0200	7,890	10.08
Apr. 24	1930	7,410	9.90				

Minimum discharge, 230 ft³/s, Oct. 4, gage height, 5.87 ft; minimum daily, 261 ft³/s, Sept. 8.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	297	e1100	919	e470	e2100	1440	1480	2670	935	690	628	312
2	296	1100	e950	e450	e1600	e1300	1580	2670	871	646	646	317
3	271	1320	e980	e430	e1300	e1200	1710	2510	787	593	619	306
4	265	1420	e990	e420	e1100	1030	1420	2310	634	1200	554	299
5	437	1220	e950	e390	e950	903	1260	2180	722	3120	499	288
6	1280	1070	e900	e380	e830	e830	1110	2050	671	2320	483	272
7	2300	940	875	e370	e750	808	1120	1840	721	1470	419	263
8	1870	964	680	e370	e760	739	1240	1690	1280	1190	408	261
9	1430	863	653	e360	e820	e700	1390	1530	1890	1020	448	347
10	1030	792	e630	e380	e880	e650	1290	1450	1740	902	407	462
11	824	775	e600	e390	e900	e620	1220	2780	1680	823	401	494
12	681	1120	e570	e390	e880	e650	1350	5670	1950	753	381	434
13	599	1910	e540	e370	e840	e680	1740	6500	2240	644	329	403
14	516	1820	e520	e360	e780	e750	2290	4840	2130	596	337	379
15	662	1610	e530	e360	e720	e950	2580	4160	1760	862	374	395
16	1040	1640	e550	e350	e650	e1000	3150	3440	1330	2290	337	452
17	1070	1490	e550	e470	e640	e990	4460	3050	1170	2610	313	543
18	962	1230	e540	e780	e600	e980	3900	2110	998	2080	308	579
19	795	1120	e570	e4800	e590	1070	3520	3210	858	1680	305	569
20	687	1080	e570	8750	e600	1120	3600	3440	731	1960	291	515
21	668	1050	e560	5900	e900	1110	5470	3410	672	1670	292	416
22	3230	1090	e540	4050	e1900	1120	6250	3060	752	1300	310	382
23	3430	1010	e540	3150	2230	1000	5900	2440	1020	1040	362	303
24	2600	913	e550	3030	2580	932	6960	2050	1200	857	470	297
25	2220	863	e550	e3200	3560	e900	6470	1730	1210	727	420	369
26	e1800	813	e510	e3100	2570	e1500	5060	1440	1090	668	481	389
27	e1500	794	e500	2870	2160	2120	4700	1300	952	597	667	387
28	e1300	743	e490	2610	1890	1780	3890	1120	919	538	651	404
29	e1200	e780	e480	e2900	1540	1530	3210	1000	816	498	591	509
30	e1200	e850	e480	e3000	---	1460	2720	967	755	477	467	837
31	e1300	---	e480	e2600	---	1420	---	958	---	484	406	---
TOTAL	37760	33490	19747	57450	37620	33282	92040	79575	34484	36305	13604	12183
MEAN	1218	1116	637	1853	1297	1074	3068	2567	1149	1171	439	406
MAX	3430	1910	990	8750	3560	2120	6960	6500	2240	3120	667	837
MIN	265	743	480	350	590	620	1110	958	634	477	291	261
CFSM	1.99	1.82	1.04	3.03	2.12	1.75	5.01	4.19	1.88	1.91	.72	.66
IN.	2.30	2.04	1.20	3.49	2.29	2.02	5.59	4.84	2.10	2.21	.83	.74

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 1996, BY WATER YEAR (WY)

	756	1005	978	874	764	1503	2814	1559	832	533	473	522
MEAN	756	1005	978	874	764	1503	2814	1559	832	533	473	522
MAX	2203	2467	2674	2678	2268	3434	5576	4512	2848	1364	1564	1541
(WY)	1978	1928	1984	1913	1981	1913	1993	1971	1947	1947	1986	1981
MIN	296	374	367	273	304	337	996	495	247	225	129	155
(WY)	1965	1931	1961	1931	1931	1941	1995	1941	1941	1941	1934	1934

e Estimated

ST. LAWRENCE RIVER BASIN

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04269000 ST. REGIS RIVER AT BRASHER CENTER, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1910 - 1996	
ANNUAL TOTAL	311453		487540			
ANNUAL MEAN	853		1332		1050	
HIGHEST ANNUAL MEAN					1884 1947	
LOWEST ANNUAL MEAN					581 1941	
HIGHEST DAILY MEAN	7000	Jan 16	8750	Jan 20	13000	Apr 2 1916
LOWEST DAILY MEAN	153	Jun 30	261	Sep 8	37	Aug 8 1917
ANNUAL SEVEN-DAY MINIMUM	165	Jun 30	287	Sep 2	49	Aug 3 1917
ANNUAL RUNOFF (CFSM)	1.39		2.18		1.72	
ANNUAL RUNOFF (INCHES)	18.93		29.63		23.32	
10 PERCENT EXCEEDS	1620		3010		2230	
50 PERCENT EXCEEDS	653		908		680	
90 PERCENT EXCEEDS	215		380		289	

ST. LAWRENCE RIVER BASIN

04270000 SALMON RIVER AT CHASM FALLS, NY

LOCATION.--Lat 44°45'22", long 74°13'09", Franklin County, Hydrologic Unit 04150307, on right bank 0.1 mi downstream from Niagara Mohawk Power Corp. powerplant at Chasm Falls, and 3.0 mi downstream from Duane Stream.

DRAINAGE AREA.--132 mi².

PERIOD OF RECORD.--July 1925 to September 1982, October 1986 to current year.

REVISED RECORDS.--WSP 729: 1931 (m). WSP 759: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,011.52 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Seasonal regulation of flow by upstream reservoirs. Diurnal fluctuation at low and medium flow caused by powerplant. A small diversion from tributary upstream from station is used as water supply for village of Malone.

AVERAGE DISCHARGE.--67 years (water years 1926-82, 1987-96), 231 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,890 ft³/s, Apr 25, 1926, gage height, 5.0 ft; minimum, 9.8 ft³/s, Sept. 26, 27, 1963; minimum daily, 28 ft³/s, Sept. 4, 1934.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 29, 1984, reached a stage of 5.63 ft, from floodmarks, discharge, 3,700 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,880 ft³/s, Apr. 24, gage height, 4.08 ft; minimum, 23 ft³/s, Dec. 12; minimum daily, 99 ft³/s, Oct. 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	244	206	149	261	232	239	618	298	207	214	122
2	109	258	228	139	260	215	261	604	274	160	234	118
3	99	284	196	139	242	211	247	516	255	176	207	115
4	150	267	210	139	222	184	225	474	253	487	206	119
5	164	240	197	142	227	184	222	442	235	816	190	108
6	257	222	197	140	205	181	266	399	156	594	188	108
7	315	216	183	138	188	172	277	364	171	407	164	110
8	239	219	181	137	184	171	273	340	262	346	148	114
9	211	213	171	134	177	166	271	323	266	295	132	167
10	192	195	177	135	179	167	262	361	224	263	147	169
11	174	212	173	132	177	165	286	607	202	227	136	153
12	165	334	164	140	164	161	322	936	225	174	133	187
13	165	363	218	140	156	165	353	987	240	177	126	165
14	148	299	260	139	155	175	375	840	323	237	125	156
15	203	288	266	133	151	211	378	780	302	272	125	117
16	230	294	195	126	139	210	569	694	280	531	127	131
17	213	270	178	152	126	185	711	575	260	402	129	183
18	186	239	172	214	128	184	632	490	241	303	118	162
19	171	236	163	602	127	185	569	695	222	279	122	149
20	167	222	166	1090	130	199	698	867	244	363	122	134
21	222	217	164	1120	179	196	1150	869	247	304	147	128
22	929	217	162	804	226	187	1590	825	213	255	155	117
23	837	210	162	593	264	177	1530	626	293	224	151	115
24	569	198	160	487	316	172	1770	501	266	205	165	119
25	469	170	158	474	346	186	1430	421	261	188	139	138
26	385	212	157	425	319	316	1060	374	270	154	138	138
27	315	195	153	407	284	273	974	346	225	164	167	132
28	285	217	149	396	253	232	794	323	297	164	154	133
29	295	223	154	346	229	221	622	316	261	156	136	198
30	294	192	149	333	---	225	525	333	236	147	131	187
31	263	---	150	296	---	227	---	325	---	160	125	---
TOTAL	8534	7166	5619	9941	6014	6135	18881	17171	7502	8837	4701	4192
MEAN	275	239	181	321	207	198	629	554	250	285	152	140
MAX	929	363	266	1120	346	316	1770	987	323	816	234	198
MIN	99	170	149	126	126	161	222	316	156	147	118	108

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 1996, BY WATER YEAR (WY)

	193	216	201	189	166	270	544	336	200	154	147	156
MAX	540	446	401	379	409	637	890	948	540	393	350	322
(WY)	1978	1928	1928	1937	1981	1976	1960	1971	1947	1947	1981	1981
MIN	98.4	93.5	106	101	90.7	102	206	129	89.8	79.3	65.4	87.0
(WY)	1958	1935	1935	1961	1936	1940	1995	1941	1941	1941	1934	1941

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1925 - 1996	
ANNUAL TOTAL	76464		104693			
ANNUAL MEAN	209		286		231	
HIGHEST ANNUAL MEAN					364	
LOWEST ANNUAL MEAN					152	
HIGHEST DAILY MEAN	1540	Aug 6	1770	Apr 24	2670	Apr 25 1926
LOWEST DAILY MEAN	68	Aug 30	99	Oct 3	28	Sep 4 1934
ANNUAL SEVEN-DAY MINIMUM	72	Aug 30	113	Sep 2	55	Aug 5 1941
10 PERCENT EXCEEDS	351		569		408	
50 PERCENT EXCEEDS	163		213		172	
90 PERCENT EXCEEDS	90		133		103	

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LOCATION.--Lat 45°00'00", long 73°30'05", Clinton County, Hydrologic Unit 02010006, on left bank 500 ft upstream from highway bridge at Perry Mills, and 7.5 mi upstream from Corbeau Creek.

PERIOD OF RECORD.--September 1928 to September 1968, October 1986 to September 1989 (annual maximum only), March 1990 to current year.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Records prior to October 1968 affected by diurnal fluctuation at low and medium flow by sawmill immediately upstream. Occasional regulation by Chazy Lake (usable capacity, about 765 mil ft³) from which the Clinton Correctional Facility at Dannemora (Saranac River basin) obtains its water supply (about 1 ft³/s). Several measurements of water temperature were made during the year. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,000 ft³/s, Apr. 7, 1937, gage height, 9.74 ft, from rating curve extended above 3,200 ft³/s; maximum gage height, 11.5 ft, Mar. 9, 1946, from floodmark (ice jam); minimum discharge, about 0.8 ft³/s, Sept. 18, 1932; minimum gage height, 1.31 ft, Aug. 31, 1966; minimum daily discharge, 8.7 ft³/s, July 30, 1991.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft³/s and maximum (*):

a About.
b Ice jam.

Minimum discharge, 29 ft³/s, Oct. 2, 3, gage height, 1.63 ft; minimum daily, 30 ft³/s, Oct. 2-3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	228	e270	e180	e300	e290	257	1180	229	200	270	52
2	30	266	e300	e170	e270	e240	313	949	197	166	799	50
3	30	351	e290	e170	e240	e220	342	694	175	145	410	49
4	35	315	e290	e170	e210	e210	285	578	150	1440	247	49
5	60	249	e290	e170	e190	e200	259	521	234	3540	181	52
6	265	212	e280	e170	e170	e190	238	459	227	2020	147	52
7	776	191	e280	e170	e170	e190	250	406	198	972	127	47
8	361	204	e270	e170	e170	e190	306	364	398	726	134	46
9	215	220	e260	e170	e190	e180	368	336	639	496	188	66
10	151	178	e250	e170	e200	e170	383	327	729	302	158	69
11	123	195	e230	e170	e200	e170	453	779	1010	213	120	68
12	102	797	e220	e170	e210	e160	731	2800	874	177	101	61
13	89	1230	e220	e160	e210	e150	800	3580	2290	160	93	57
14	81	728	e220	e160	e190	e190	903	2300	2820	166	86	65
15	104	743	e220	e160	e170	e390	1010	1570	1440	211	78	91
16	141	887	e220	e160	e160	e320	1450	1180	733	864	74	133
17	114	709	e220	e160	e150	e250	2340	913	508	586	74	212
18	94	519	e220	e190	e140	e240	1630	760	407	365	77	175
19	84	446	e210	e1200	e130	e250	1120	786	351	284	69	113
20	76	390	e200	e4000	e150	283	1270	753	305	539	63	84
21	88	400	e200	e1500	e200	276	2170	789	281	454	92	70
22	2530	446	e200	1200	e680	293	2460	797	264	309	96	59
23	2020	394	e200	826	e640	253	2010	562	287	236	88	52
24	915	332	e190	717	e700	213	2420	492	252	399	82	49
25	707	253	e190	847	e800	213	1900	418	270	282	75	54
26	575	e250	e190	622	e580	583	1450	378	399	218	67	64
27	454	e250	e190	663	e420	501	1530	310	291	183	73	61
28	414	e250	e190	e620	e310	333	1140	250	267	158	74	65
29	448	e250	e180	e470	e290	282	870	237	246	137	67	87
30	394	e260	e180	e370	---	271	665	257	215	121	61	91
31	322	---	e180	e310	---	261	---	267	---	125	57	---
TOTAL	11829	12143	7050	16385	8440	7962	31323	25992	16686	16194	4328	2243
MEAN	382	405	227	529	291	257	1044	838	556	522	140	74.8
MAX	2530	1230	300	4000	800	583	2460	3580	2820	3540	799	212
MIN	30	178	180	160	130	150	238	237	150	121	57	46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1996, BY WATER YEAR (WY)

MEAN	135	198	195	245	204	479	921	382	192	116	88.4	82.2
MAX	589	544	550	775	553	1217	2377	969	852	823	274	368
(WY)	1955	1955	1991	1930	1930	1936	1993	1947	1947	1947	1962	1954
MIN	22.3	35.8	41.1	51.7	46.5	70.5	236	97.2	43.5	23.1	26.2	20.2
(WY)	1967	1931	1967	1956	1956	1956	1995	1941	1941	1965	1966	1966

e Estimated

ST. LAWRENCE RIVER BASIN

04271500 GREAT CHAZY RIVER AT PERRY MILLS, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1928 - 1996	
ANNUAL TOTAL	99272		160575		268	
ANNUAL MEAN	272		439		514	1947
HIGHEST ANNUAL MEAN					97.2	1965
LOWEST ANNUAL MEAN						
HIGHEST DAILY MEAN	2530	Oct 22	4000	Jan 20	5590	Mar 16 1929
LOWEST DAILY MEAN	28	Sep 12	30	Oct 2	8.7	Jul 30 1991
ANNUAL SEVEN-DAY MINIMUM	30	Aug 31	49	Sep 2	11	Jul 26 1991
10 PERCENT EXCEEDS	608		925		600	
50 PERCENT EXCEEDS	160		248		138	
90 PERCENT EXCEEDS	36		74		44	

ST. LAWRENCE RIVER BASIN

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04271815 LITTLE CHAZY RIVER NEAR CHAZY, NY

LOCATION.--Lat 44°54'08", long 73°24'56", Clinton County, Hydrologic Unit 02010006, on right bank at downstream side of bridge on Stetson Road, 0.2 mi upstream from abandoned dam, 1.4 mi northeast of Chazy, and 2.2 mi upstream from mouth.

DRAINAGE AREA.--52.8 mi².

PERIOD OF RECORD.--March 1990 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 115 ft above sea level, from topographic map.

REMARKS.--Records poor. Some regulation at low flow by dams and reservoirs upstream from station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--6 years, 54.8 ft³/s, 14.09 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 850 ft³/s, Jan. 20, 1996, gage height, 10.07 ft (ice jam); minimum, 0.42 ft³/s, Sept. 7, 8, 1991; minimum gage height, 1.36 ft, several days during August and September, 1991.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 650 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 20	unknown	a*850	b*10.07	May 13	1100	a700	c10.06

a About.

b Ice jam.

c Backwater from debris on dam downstream from gage.

Minimum discharge, 3.2 ft³/s, Oct. 1-4, 5; minimum gage height, 1.64 ft, Sept. 5, 6, 7.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	47	38	e28	48	e43	46	e190	37	22	28	5.3
2	3.2	49	43	e27	40	e40	54	e170	32	19	51	4.6
3	3.2	59	39	e26	36	e36	57	e150	28	17	59	4.1
4	3.2	60	41	e26	31	33	51	e130	29	20	41	3.9
5	3.7	52	43	e27	27	28	48	103	60	59	30	3.8
6	24	45	e40	e26	26	28	45	87	63	78	30	3.8
7	128	42	e39	e25	26	25	44	76	58	50	25	3.8
8	88	42	e36	e25	26	23	54	69	131	33	20	4.1
9	46	40	35	e26	29	25	71	62	279	26	20	4.6
10	30	35	35	e26	32	24	79	61	197	21	20	4.5
11	23	36	36	e25	32	24	113	243	117	18	17	5.3
12	19	e180	35	e25	30	e23	e150	e400	81	15	14	5.7
13	14	e220	32	e24	24	e23	e190	e620	104	14	13	5.6
14	12	e170	32	e24	24	e25	e220	e400	328	16	13	5.7
15	24	e190	34	e23	e24	e44	e300	e270	330	31	11	8.3
16	31	e210	e33	e24	e23	e50	e380	e200	129	78	9.2	18
17	28	e180	e34	e25	e22	41	e460	e160	63	57	8.6	27
18	24	e150	e33	e27	e21	40	e370	e130	47	35	8.5	24
19	22	117	e32	e200	e20	41	e330	e110	37	28	8.9	18
20	19	107	e31	e700	e20	48	e300	e120	32	39	8.2	13
21	21	108	e32	e420	e48	56	e400	e120	30	38	11	11
22	251	107	e32	e340	79	64	e450	e130	28	29	12	8.7
23	497	94	e31	e210	78	57	e400	96	29	45	11	7.5
24	313	80	e30	e130	88	47	e440	70	28	e140	11	6.7
25	116	61	e30	e140	138	46	e330	58	32	e300	9.8	7.5
26	86	e60	e30	e100	e150	67	e280	51	35	e110	8.5	8.7
27	66	e53	e29	e120	e60	70	e290	45	29	86	7.7	7.9
28	63	e48	e29	e150	e54	60	e220	41	27	50	7.6	7.7
29	71	e44	e28	e110	e47	54	e190	38	25	34	7.0	13
30	62	39	e28	e80	---	50	114	41	24	28	6.5	15
31	53	---	e29	71	---	47	---	43	---	25	5.9	---
TOTAL	2147.5	2725	1049	3230	1303	1282	6476	4484	2469	1561	533.4	266.8
MEAN	69.3	90.8	33.8	104	44.9	41.4	216	145	82.3	50.4	17.2	8.89
MAX	497	220	43	700	150	70	460	620	330	300	59	27
MIN	3.2	35	28	23	20	23	44	38	24	14	5.9	3.8
CFSM	1.31	1.72	.64	1.97	.85	.78	4.09	2.74	1.56	.95	.33	.17
IN.	1.51	1.92	.74	2.28	.92	.90	4.56	3.16	1.74	1.10	.38	.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1996, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	
MEAN	31.5	58.2	41.7	59.3	32.9	90.9	208	73.1	40.7	24.1	16.2	6.40
MAX	81.9	90.8	99.0	129	75.6	196	420	145	82.3	51.7	43.2	11.3
(WY)	1991	1996	1991	1995	1991	1990	1993	1996	1996	1994	1990	1990
MIN	5.74	7.76	10.5	12.2	7.45	20.8	43.4	31.1	12.9	2.81	1.15	1.42
(WY)	1992	1992	1992	1994	1992	1993	1995	1995	1991	1995	1991	1991

e Estimated

ST. LAWRENCE RIVER BASIN

04271815 LITTLE CHAZY RIVER NEAR CHAZY, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1990 - 1996
ANNUAL TOTAL	17731.9	27526.7	
ANNUAL MEAN	48.6	75.2	54.8
HIGHEST ANNUAL MEAN			75.2 1996
LOWEST ANNUAL MEAN			28.1 1992
HIGHEST DAILY MEAN	628 Jan 22	700 Jan 20	730 Apr 17 1994
LOWEST DAILY MEAN	1.1 Sep 11	3.2 Oct 1	.43 Sep 7 1991
ANNUAL SEVEN-DAY MINIMUM	1.2 Sep 5	4.0 Sep 2	.45 Sep 2 1991
ANNUAL RUNOFF (CFSM)	.92	1.42	1.04
ANNUAL RUNOFF (INCHES)	12.49	19.39	14.10
10 PERCENT EXCEEDS	107	192	140
50 PERCENT EXCEEDS	28	37	26
90 PERCENT EXCEEDS	2.3	8.8	4.1

04273500 SARANAC RIVER AT PLATTSBURGH, NY

LOCATION.--Lat 44°40'54", long 73°28'18", Clinton County, Hydrologic Unit 02010006, on right bank at Plattsburgh, 600 ft downstream from Imperial Paper and Color Corp. dam, 3.0 mi upstream from mouth, and 5.5 mi downstream from Mead Brook.

DRAINAGE AREA.--608 mi².

PERIOD OF RECORD.--March 1903 to September 1930, October 1943 to current year. Published as "near Plattsburgh," 1903-30.

REVISED RECORDS.--WSP 345: Drainage area. WSP 384: 1909-10 (monthly discharge only). WSP 1387: 1907-8.

WSP 1437: 1908 (minimum daily only).

GAGE.--Water-stage recorder. Datum of gage is 155.74 ft above sea level. Prior to Nov. 12, 1919, nonrecording gage, and Nov. 12, 1919 to Sept. 30, 1930, water-stage recorder, at site 1.5 mi upstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Considerable diurnal fluctuation caused by power and industrial operations. Slight regulation by storage in Upper and Lower Saranac Lakes. During the year, the city of Plattsburgh diverted an average of 4.80 ft³/s from Saranac River and Mead and West Brooks, tributaries upstream from station, for municipal supply. About 1 ft³/s diverted from Great Chazy River basin into Saranac River for water supply of State Institutions at Dannemora. Several measurements of water temperature were made during the year. Telephone gage-height telemeter at station.

AVERAGE DISCHARGE.--80 years (water years 1904-30, 1944-96), 844 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,500 ft³/s, Apr. 8, 1928, from computation of flow over dam and through waste gates and powerplant; minimum daily discharge, 3.6 ft³/s, June 26, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,720 ft³/s, Oct. 22, gage height, 8.90 ft; minimum daily, 226 ft³/s, Oct. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	226	933	707	e560	e1100	835	932	2860	1130	917	833	421
2	236	991	818	e520	e950	705	1030	2680	775	755	1020	408
3	240	1120	711	e470	e850	e650	995	2430	682	737	815	391
4	309	1030	759	e390	e780	e620	884	2260	750	1190	866	359
5	420	978	755	e350	e750	e620	914	2170	890	2640	712	349
6	990	923	738	e310	e720	e620	878	2050	753	1640	683	315
7	1250	835	e660	e330	e700	e620	940	1910	782	1320	676	282
8	812	831	e620	e360	e700	e600	967	1800	1190	1210	454	328
9	708	800	e680	e380	e700	e600	952	1690	1340	755	689	457
10	633	705	e700	e440	694	e540	971	1730	1440	835	355	433
11	595	691	e650	e520	710	e570	979	2830	1650	1010	349	388
12	542	1420	e600	e650	e780	658	1190	4350	1470	991	441	370
13	513	1370	e580	e750	e720	734	1270	4360	1440	862	443	368
14	560	1450	e540	e650	e680	774	1380	3650	3090	868	423	428
15	772	1510	e620	e530	e650	900	1400	3190	2100	1270	424	491
16	663	1450	e680	e470	e720	881	2200	2710	1690	2280	414	497
17	681	1320	e750	e550	e680	813	2850	2400	1370	1430	398	736
18	650	1180	e700	e750	e620	893	2210	2440	1200	1260	362	660
19	595	1120	e660	e1400	e600	1010	2250	3330	1120	1030	336	583
20	612	1020	e620	3540	e650	933	2480	3500	897	1400	341	429
21	712	977	e600	3020	e700	950	3380	3120	936	1110	445	399
22	5080	982	e620	2620	e800	934	4280	2780	999	1080	373	369
23	2660	942	e560	2410	914	773	4430	2200	1230	1210	386	381
24	2030	867	e500	2170	1150	713	5110	1900	1190	1310	463	333
25	1680	729	e490	1940	e920	755	4400	1690	1260	1070	471	437
26	1470	e640	e500	1740	e1100	1100	3820	1560	1210	899	444	373
27	1330	e620	e540	1640	1010	997	3670	1460	1020	818	555	372
28	1280	e600	e560	1380	960	973	3130	1390	974	693	511	392
29	1280	735	e560	1600	941	1010	2620	1340	1030	601	536	481
30	1200	679	e560	1560	---	922	2430	1330	1050	559	472	481
31	1040	---	e580	1340	---	922	---	1280	---	641	463	---
TOTAL	31769	29448	19618	35340	23249	24625	64942	74390	36658	34391	16153	12711
MEAN	1025	982	633	1140	802	794	2165	2400	1222	1109	521	424
MAX	5080	1510	818	3540	1150	1100	5110	4360	3090	2640	1020	736
MIN	226	600	490	310	600	540	878	1280	682	559	336	282

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 1996, BY WATER YEAR (WY)

	MEAN	617	720	724	678	654	1084	1969	1376	796	553	471	484
MAX	2162	1538	2071	1350	1372	2487	3626	3687	2757	1820	1045	1219	
(WY)	1978	1919	1984	1913	1981	1921	1993	1971	1947	1947	1986	1905	
MIN	250	239	309	302	304	434	698	518	330	190	266	204	
(WY)	1965	1923	1909	1923	1961	1967	1957	1903	1988	1979	1911	1968	

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR			FOR 1996 WATER YEAR			WATER YEARS 1903 - 1996		
ANNUAL TOTAL	248764			403294			845		
ANNUAL MEAN	682			1102			1458		
HIGHEST ANNUAL MEAN							1947		
LOWEST ANNUAL MEAN							460		
HIGHEST DAILY MEAN	5080	Oct 22		5110	Apr 24		8600	Apr 8	1928
LOWEST DAILY MEAN	170	Aug 25		226	Oct 1		3.6	Jun 26	1979
ANNUAL SEVEN-DAY MINIMUM	196	Aug 30		347	Sep 2		38	Jun 21	1979
10 PERCENT EXCEEDS	1260			2270			1620		
50 PERCENT EXCEEDS	580			818			633		
90 PERCENT EXCEEDS	226			418			322		

e Estimated

ST. LAWRENCE RIVER BASIN

04273700 SALMON RIVER AT SOUTH PLATTSBURGH, NY

LOCATION.--Lat 44°38'24", long 73°29'43", Clinton County, Hydrologic Unit 02010004, on left bank 32 ft upstream from bridge on Salmon River Road, 0.4 mi west of State Highway 22, and 3.9 mi upstream from mouth, at South Plattsburgh.

DRAINAGE AREA.--61.9 mi².

PERIOD OF RECORD.--May 1959 to September 1968 (no winter records prior to October 1965), March 1990 to current year. Occasional low-flow measurements, water years 1954, 1957-58. Annual maximum, water years 1968-86.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 220.53 ft above sea level. October 1968 to September 1986, crest-stage gage at present site and datum.

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

AVERAGE DISCHARGE.--9 years (water years 1966-68, 1991-96), 54.5 ft³/s, 11.96 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,220 ft³/s (result of ice jam release), Mar. 27, 1992, gage height, 5.66 ft; maximum gage height, 7.31 ft, Apr. 3, 1960 (ice jam); minimum discharge, 3.0 ft³/s, Sept. 17, 1967; minimum daily, 3.6 ft³/s, Sept. 17, 1967.

EXTREMES 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)
Oct. 22	0900	*1,700	4.99	Jan. 20	0415	895	3.87
Jan. 19	1315	ice jam	*5.70	May 12	1330	764	3.64

Minimum discharge, 11 ft³/s, Oct. 3, 4; minimum daily, 12 ft³/s, Oct. 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	50	e51	e34	e94	e78	58	210	50	45	44	17
2	13	67	e50	e34	e85	e70	71	139	43	36	63	16
3	12	81	e48	e34	e78	e66	67	102	40	34	43	16
4	21	78	e47	e34	e70	e60	58	88	49	147	36	16
5	25	60	e48	e35	e62	e55	55	83	143	271	33	24
6	130	51	e46	e35	e57	e54	52	73	80	121	29	17
7	152	47	e45	e36	e53	e52	54	65	82	77	26	15
8	64	50	e44	e36	e50	e49	67	61	146	60	25	16
9	42	47	e43	e37	e46	e47	81	62	129	48	28	27
10	32	42	e42	e37	e43	e44	82	95	94	45	25	24
11	28	43	e41	e37	e42	e43	104	293	90	41	22	20
12	25	301	e40	e36	e41	e42	125	640	88	34	21	18
13	22	233	e40	e35	e40	e41	120	417	225	39	21	18
14	23	131	e39	e34	e39	e40	200	198	419	76	20	27
15	72	161	e39	e33	e38	e44	181	139	190	123	18	26
16	58	161	e39	e33	e37	e60	286	112	107	267	19	27
17	38	116	e39	e35	e36	e90	391	103	79	110	20	34
18	32	89	e40	e60	e34	e80	211	96	64	70	18	26
19	28	86	e40	e400	e30	e70	156	371	56	64	17	20
20	25	85	e40	662	e32	e64	162	220	48	105	19	18
21	58	87	e40	321	e50	e78	285	182	50	73	35	17
22	943	84	e39	231	e74	e90	235	134	55	53	26	16
23	270	72	e39	169	e110	e110	235	97	84	46	22	16
24	129	63	e38	121	e140	e68	293	81	62	61	26	16
25	88	e50	e37	121	e160	e54	188	69	66	49	20	21
26	69	58	e37	153	e130	109	157	63	56	46	20	22
27	58	56	e36	e180	e110	e70	164	58	47	42	33	21
28	68	e54	e36	e200	e100	e60	118	53	63	35	25	22
29	76	e53	e35	e170	e87	60	98	50	51	31	22	31
30	60	e52	e35	e120	---	59	100	66	49	29	19	27
31	51	---	e34	e110	---	57	---	60	---	32	17	---
TOTAL	2725	2608	1267	3613	1968	1964	4454	4480	2805	2310	812	631
MEAN	87.9	86.9	40.9	117	67.9	63.4	148	145	93.5	74.5	26.2	21.0
MAX	943	301	51	662	160	110	391	640	419	271	63	34
MIN	12	42	34	33	30	40	52	50	40	29	17	15
CFSM	1.42	1.40	.66	1.88	1.10	1.02	2.40	2.33	1.51	1.20	.42	.34
IN.	1.64	1.57	.76	2.17	1.18	1.18	2.68	2.69	1.69	1.39	.49	.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1996, BY WATER YEAR (WY)

	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	1996	
MEAN	36.9	46.8	43.3	54.3	38.6	102	166	72.4	41.1	23.4	22.6	16.5																				
MAX	87.9	86.9	89.2	117	67.9	189	364	145	93.5	74.5	44.0	24.8																				
(WY)	1996	1996	1991	1996	1996	1992	1993	1996	1996	1996	1990	1991																				
MIN	11.7	14.3	14.0	21.5	15.2	22.1	42.2	29.2	18.7	7.16	7.82	10.1																				
(WY)	1967	1967	1967	1967	1967	1967	1995	1995	1995	1966	1966	1966																				

e Estimated

ST. LAWRENCE RIVER BASIN

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04273700 SALMON RIVER AT SOUTH PLATTSBURGH, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1966 - 1996	
ANNUAL TOTAL	17107.6		29637			
ANNUAL MEAN	46.9		81.0		54.3	
HIGHEST ANNUAL MEAN					81.0 1996	
LOWEST ANNUAL MEAN					28.0 1967	
HIGHEST DAILY MEAN	943	Oct 22	943	Oct 22	1280	Mar 28 1992
LOWEST DAILY MEAN	8.1	Jun 29	12	Oct 3	3.6	Sep 17 1967
ANNUAL SEVEN-DAY MINIMUM	8.7	Jul 9	17	Sep 2	4.5	Sep 14 1967
ANNUAL RUNOFF (CFSM)	.76		1.31		.88	
ANNUAL RUNOFF (INCHES)	10.28		17.81		11.91	
10 PERCENT EXCEEDS	101		163		111	
50 PERCENT EXCEEDS	29		52		33	
90 PERCENT EXCEEDS	11		22		12	

ST. LAWRENCE RIVER BASIN

04273800 LITTLE AUSABLE RIVER NEAR VALCOUR, NY

LOCATION.--Lat 44°35'39", long 73°29'48", Clinton County, Hydrologic Unit 02010004, on left bank at upstream side of bridge on Fuller Road, 2.8 mi southwest of Valcour, and 2.9 mi upstream from mouth.

DRAINAGE AREA.--67.8 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1956-1961, 1966, 1973-1974. October 1991 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 260 ft above sea level, from topographic map. **REMARKS.**--Records good except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--5 years, 47.7 ft³/s, 9.55 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,160 ft³/s, Apr. 23, 1993, gage height, 4.37 ft; maximum gage height, 5.48 ft, Mar. 30, 1993 (ice jam); minimum discharge, 2.8 ft³/s, July 31, 1992, gage height, 1.02 ft.

EXTREMES 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. 19	2345	*1,050	3.89	No other peak greater than base discharge.			
Feb. 4	1815	ice jam	*5.15				

Minimum discharge, 3.8 ft³/s, Aug. 15, gage height, 1.06 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e13	e54	e46	e29	e90	e80	54	191	44	34	21	7.4
2	e12	e60	e45	e29	e80	e68	64	185	37	27	28	7.2
3	e12	e74	e42	e29	e70	e58	63	126	32	24	29	7.3
4	e20	e86	e39	e29	e58	e51	58	97	33	60	25	7.1
5	e30	e70	e37	e29	e54	e47	56	82	59	131	20	7.2
6	e70	e60	e35	e30	e50	e46	54	73	59	126	16	6.8
7	e160	e50	e34	e30	e48	e45	52	65	66	83	14	6.3
8	e120	e52	e35	e30	e45	e42	58	57	96	48	11	6.3
9	e70	45	e35	e31	e44	e41	74	51	128	35	11	9.5
10	e50	41	e36	e30	e43	e41	75	67	109	32	10	11
11	e40	40	e35	e30	e42	e40	114	207	83	31	9.2	9.9
12	e32	186	e35	e30	e40	e40	128	779	68	24	8.3	8.9
13	e27	337	e34	e29	e38	e39	142	565	164	25	8.0	8.4
14	e25	187	e34	e28	e37	e42	191	221	356	39	9.2	12
15	e70	164	e33	e28	e35	e47	217	141	188	71	6.3	15
16	e90	182	e33	e27	e34	e62	247	111	114	124	7.0	14
17	e36	148	e34	e27	e32	e100	338	96	74	92	7.0	17
18	e29	110	e33	e40	e30	e84	224	86	53	55	6.8	15
19	e26	93	e33	e180	e29	e78	156	344	42	39	6.4	12
20	e23	86	e32	e950	e27	e64	133	307	35	41	6.5	10
21	e28	86	e32	572	e26	e84	191	169	32	40	9.9	8.1
22	e60	84	e32	215	e42	106	198	124	37	33	10	6.7
23	e400	78	e32	150	e84	89	208	95	53	27	9.8	6.6
24	e160	68	e31	137	e130	72	290	74	54	26	11	6.4
25	e94	e56	e30	e140	e180	66	214	59	51	22	10	9.1
26	e80	e50	e30	e180	e140	88	166	51	41	22	14	11
27	e60	e55	e30	e210	e120	87	165	46	36	22	20	10
28	e74	e50	e30	e240	e100	74	135	42	44	22	20	9.8
29	e80	e49	e29	e180	e90	63	106	39	43	19	16	14
30	e70	e48	e29	e110	---	56	93	44	38	16	11	15
31	e60	---	e29	e98	---	52	---	48	---	17	8.3	---
TOTAL	2121	2749	1054	3897	1838	1952	4264	4642	2269	1407	399.7	295.0
MEAN	68.4	91.6	34.0	126	63.4	63.0	142	150	75.6	45.4	12.9	9.83
MAX	400	337	46	950	180	106	338	779	356	131	29	17
MIN	12	40	29	27	26	39	52	39	32	16	6.3	6.3
CFSM	1.01	1.35	.50	1.85	.93	.93	2.10	2.21	1.12	.67	.19	.15
IN.	1.16	1.51	.58	2.14	1.01	1.07	2.34	2.55	1.24	.77	.22	.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1996, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996
MEAN	27.5	42.6	31.3	56.6	29.1
MAX	68.4	91.6	36.4	126	63.4
(WY)	1996	1996	1992	1996	1996
MIN	11.2	23.0	27.7	15.5	15.1
(WY)	1995	1992	1994	1994	1995

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1992 - 1996

ANNUAL TOTAL	13533.4	26887.7	
ANNUAL MEAN	37.1	73.5	47.7
HIGHEST ANNUAL MEAN			73.5
LOWEST ANNUAL MEAN			26.3
HIGHEST DAILY MEAN	400	Oct 23	950
LOWEST DAILY MEAN	4.2	Sep 13	6.3
ANNUAL SEVEN-DAY MINIMUM	4.7	Aug 28	6.9
ANNUAL RUNOFF (CFSM)	.55		1.08
ANNUAL RUNOFF (INCHES)	7.43		14.75
10 PERCENT EXCEEDS	83		165
50 PERCENT EXCEEDS	24		44
90 PERCENT EXCEEDS	7.0		11

e Estimated

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LOCATION.--Lat 44°27'05", long 73°38'35", Clinton County, Hydrologic Unit 02010004, on left bank 1.8 mi downstream from confluence of East and West Branches, and 1.8 mi east of Au Sable Forks.

DRAINAGE AREA.--448 mi².

PERIOD OF RECORD.--August 1910 to September 1968, March 1990 to current year. Prior to October 1924, published as "at Au Sable Forks". Monthly discharge only for winter periods during 1911 and 1913 water years, published in WSP 1307.

REVISED RECORDS.--WSP 1307: 1911-19 (M), 1922-24 (M).

GAGE.--Water-stage recorder. Datum of gage is 505.65 ft above sea level. Prior to Oct. 1, 1924, chain gage at site 1.5 mi upstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Occasional regulation by Fern Lake and Taylor Pond in Black Brook basin and Upper and Lower Ausable Lakes. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--64 years (water years 1911-68, 1991-96), 669 ft³/s, 20.28 in/yr.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 24,200 ft³/s, Sept. 22, 1938, gage height, 11.65 ft, from rating curve extended above 9,100 ft³/s on basis of slope-area measurement at gage height 11.39 ft; maximum gage height, at least 14.5 ft, 200 ft upstream from gage, Mar. 13, 1990 (ice jam); minimum discharge, practically no flow July 21, 1912, result of unusual regulation.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 23, 1990 (ice jam), reached a stage of 14.5 ft, from floodmark 200 ft upstream from gage.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,200 ft³/s and maximum (*):

a About.
b Ice jam.

Minimum discharge, 122 ft³/s, Oct. 4, gage height, 1.17 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	158	817	e510	e240	e720	e480	507	5270	802	478	415	165
2	144	1110	e510	e240	e660	e430	654	2870	664	425	568	158
3	131	2080	e490	e240	e600	e380	607	2110	571	382	475	154
4	133	1540	e470	e240	e570	e340	524	1890	657	3220	631	147
5	164	1090	e450	e250	e540	e350	496	2100	1080	4670	499	145
6	239	840	e420	e250	e510	e360	470	1760	838	1990	401	143
7	1160	720	e400	e250	e470	e350	490	1370	1050	1370	333	138
8	1130	679	e390	e250	e450	e330	508	1200	4000	998	300	140
9	716	629	e370	e250	e420	e320	516	1200	2430	758	296	187
10	502	542	e350	e250	e400	e310	503	1640	1660	672	287	301
11	372	552	e340	e240	e380	e300	514	5900	2800	630	266	248
12	299	5790	e330	e240	e370	e310	726	8170	1830	522	244	209
13	253	4630	e320	e240	e350	e320	814	4220	1670	500	230	185
14	220	2020	e310	e240	e340	376	1250	2560	1730	713	214	190
15	200	1640	e300	e240	e330	541	1160	2070	1290	1320	201	219
16	645	1510	e300	e230	e310	522	3220	1950	914	3050	198	214
17	759	1210	e310	e230	e300	469	3290	1810	717	1740	216	238
18	559	1010	e310	e630	e290	422	1870	1780	603	1080	199	214
19	419	947	e300	e5000	e290	407	1630	3060	510	809	188	191
20	370	877	e290	e9900	e290	440	2930	2940	451	1170	184	166
21	1620	834	e290	e3100	e600	474	7100	2700	456	1020	197	151
22	e12200	793	e290	e1900	e800	511	4980	2180	598	740	188	144
23	3430	732	e280	1440	e1400	419	6920	1520	1380	588	181	144
24	1820	672	e280	1180	e1400	366	7620	1270	1080	515	227	145
25	1290	580	e270	e1100	e1000	388	3500	1050	794	462	229	186
26	1070	e580	e270	e960	e760	973	2970	878	714	462	209	225
27	871	e510	e260	e1800	e620	791	3810	760	609	434	264	205
28	1160	e480	e260	e2500	e550	589	2330	678	645	385	234	190
29	1650	e490	e260	e1500	e510	537	1690	677	567	350	219	331
30	1230	e500	e250	e1200	---	511	1540	807	510	319	195	392
31	966	---	e250	e820	---	492	---	897	---	326	174	---
TOTAL	35880	36404	10430	37150	16230	13808	65139	69287	33620	32098	8662	5865
MEAN	1157	1213	336	1198	560	445	2171	2235	1121	1035	279	195
MAX	12200	5790	510	9900	1400	973	7620	8170	4000	4670	631	392
MIN	131	480	250	230	290	300	470	677	451	319	174	138
CFSM	2.58	2.71	.75	2.67	1.25	.99	4.85	4.99	2.50	2.31	.62	.44
IN.	2.98	3.02	.87	3.08	1.35	1.15	5.41	5.75	2.79	2.67	.72	.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 1996, BY WATER YEAR (WY)

MEAN	494	592	511	428	347	833	1870	1384	598	350	283	329
MAX	1637	1729	1659	1198	1010	3288	3436	3101	1831	1444	718	1255
(WY)	1919	1928	1921	1996	1925	1921	1960	1947	1947	1947	1943	1938
MIN	175	229	169	132	118	167	600	359	182	150	99.4	96.5
(WY)	1915	1940	1923	1918	1931	1940	1995	1921	1941	1965	1923	1921

e Estimated

ST. LAWRENCE RIVER BASIN

04275500 AUSABLE RIVER NEAR AU SABLE FORKS, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1910 - 1996	
ANNUAL TOTAL	199890		364573			
ANNUAL MEAN	548		996		669	
HIGHEST ANNUAL MEAN					1087 1947	
LOWEST ANNUAL MEAN					380 1965	
HIGHEST DAILY MEAN	12200	Oct 22	12200	Oct 22	15000	Mar 27 1913
LOWEST DAILY MEAN	96	Sep 6	131	Oct 3	9.0	Dec 22 1912
ANNUAL SEVEN-DAY MINIMUM	100	Aug 31	146	Sep 2	72	Aug 8 1923
ANNUAL RUNOFF (CFSM)	1.22		2.22		1.49	
ANNUAL RUNOFF (INCHES)	16.60		30.27		20.30	
10 PERCENT EXCEEDS	1080		2100		1500	
50 PERCENT EXCEEDS	333		510		341	
90 PERCENT EXCEEDS	138		208		164	

ST. LAWRENCE RIVER BASIN

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04276069 HIGHLANDS FORGE LAKE OUTLET NEAR WILLSBORO, NY

LOCATION.--Lat 44°25'29", long 73°25'35", Essex County, Hydrologic Unit 02010001, on left bank 5.0 ft downstream from bridge on Highlands Road, 0.8 mi upstream from mouth, and 4.9 mi northwest of Willsboro.

DRAINAGE AREA.--10.9 mi².

PERIOD OF RECORD.--March 1990 to September 1996 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 280 ft above sea level, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Occasional regulation from Long Pond, Highland Forge Lake, and Hadley Pond upstream from station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--6 years, 9.87 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 149 ft³/s, Apr. 4, 1990, gage height, 6.21 ft; maximum gage height, 7.77 ft, Mar. 21, 1994 (ice jam); minimum discharge, 0.06 ft³/s, Sept. 2, 3, 4, 5, 6, 7, 1995, gage height, 4.23 ft; minimum daily discharge, 0.07 ft³/s, Aug. 25, Sept. 2-6, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 135 ft³/s, May 12, gage height, 6.09 ft; maximum gage height, 6.29 ft, Jan. 19 (ice jam); minimum discharge, 0.25 ft³/s, Oct. 3, 4; minimum recorded gage height, 4.31 ft, sometime during Aug. 28 to Sept. 30; minimum daily discharge, 0.26 ft³/s, Oct. 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.32	5.8	12	e7.0	31	7.5	7.0	44	9.5	15	13	e3.7
2	.30	10	12	e6.8	22	7.1	8.1	39	9.0	13	12	e3.5
3	.26	14	11	e6.6	18	6.9	7.9	34	11	16	12	e3.3
4	.51	13	11	e6.4	e21	6.7	7.4	32	11	63	9.6	e3.1
5	.47	7.8	11	e6.2	e19	6.4	7.1	31	12	82	5.6	e3.0
6	2.4	4.7	11	e6.0	e18	6.3	7.1	28	11	44	2.9	e2.9
7	.82	5.2	11	e5.9	e17	e6.0	6.9	25	14	36	2.5	e2.8
8	.64	6.4	9.9	e5.8	e16	e6.0	8.0	23	16	29	2.9	e2.8
9	.57	6.6	e9.5	5.6	e15	e5.9	8.5	16	16	23	3.2	e3.2
10	.53	6.3	9.9	5.5	14	e5.8	9.3	10	17	25	2.1	e3.6
11	.51	7.3	9.4	5.5	12	e5.7	13	20	17	22	2.5	e4.0
12	.46	32	e9.2	5.5	11	e5.6	16	89	15	18	3.5	e3.2
13	.57	29	e9.0	5.5	e10	5.5	17	79	23	6.4	2.6	e3.5
14	.98	16	e8.6	5.3	9.1	5.7	28	58	47	9.4	2.0	e3.9
15	2.3	31	9.7	5.3	8.5	6.8	37	42	36	29	1.8	e3.6
16	.92	33	9.1	5.4	7.9	6.6	42	36	29	33	4.3	e3.3
17	.79	25	8.8	5.5	7.4	6.1	53	33	27	17	6.8	e2.9
18	.65	23	8.5	5.7	6.9	5.9	41	31	23	14	8.1	e2.5
19	.62	22	e8.5	e40	e6.4	5.8	34	45	16	15	8.3	e2.4
20	.59	18	e8.5	e70	6.2	6.5	32	39	11	16	8.1	e2.2
21	2.7	12	8.4	60	6.9	9.0	35	37	12	11	8.8	e2.9
22	13	18	8.3	46	7.5	11	33	33	14	9.4	8.9	e2.0
23	7.2	18	8.0	35	7.9	9.3	38	27	16	8.5	8.3	e1.7
24	4.4	17	7.8	35	9.2	8.2	49	21	14	8.2	8.0	e1.9
25	3.4	16	7.6	33	9.8	8.0	41	19	16	5.6	7.5	e2.2
26	2.5	15	7.4	23	9.1	11	39	18	18	11	7.6	e1.9
27	3.4	15	7.4	45	8.6	10	41	19	17	13	8.0	e2.3
28	6.9	14	7.3	63	8.5	9.0	36	13	18	10	e7.0	e1.9
29	6.8	13	7.2	48	8.0	8.3	33	8.4	16	8.6	e6.0	e1.3
30	5.8	12	7.0	32	---	7.9	34	11	15	8.7	e5.0	e1.0
31	5.3	---	6.7	26	---	7.3	---	11	---	13	e4.0	---
TOTAL	76.61	466.1	280.7	661.5	351.9	223.8	769.3	971.4	526.5	632.8	192.9	82.5
MEAN	2.47	15.5	9.05	21.3	12.1	7.22	25.6	31.3	17.5	20.4	6.22	2.75
MAX	13	33	12	70	31	11	53	89	47	82	13	4.0
MIN	.26	4.7	6.7	5.3	6.2	5.5	6.9	8.4	9.0	5.6	1.8	1.0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1996, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996
MEAN	3.33	9.97	8.59	10.0	6.79	15.6	34.1
MAX	9.36	21.5	18.3	21.3	12.1	36.7	67.6
(WY)	1991	1991	1991	1996	1996	1990	1993
MIN	.94	2.34	4.42	3.75	3.25	5.55	7.68
(WY)	1995	1995	1995	1994	1994	1994	1995

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1990 - 1996

	1995 CALENDAR YEAR	1996 WATER YEAR	WATER YEARS 1990 - 1996
ANNUAL TOTAL	1954.50	5236.01	
ANNUAL MEAN	5.35	14.3	9.87
HIGHEST ANNUAL MEAN			14.3
LOWEST ANNUAL MEAN			3.75
HIGHEST DAILY MEAN	33 Nov 16	89 May 12	115 Apr 4 1990
LOWEST DAILY MEAN	.07 Aug 25	.26 Oct 3	.07 Aug 25 1995
ANNUAL SEVEN-DAY MINIMUM	.08 Aug 31	.59 Oct 7	.08 Aug 31 1995
10 PERCENT EXCEEDS	12	34	26
50 PERCENT EXCEEDS	4.4	9.0	5.6
90 PERCENT EXCEEDS	.23	2.5	.79

e Estimated

ST. LAWRENCE RIVER BASIN

04276500 BOUQUET RIVER AT WILLSBORO, NY

LOCATION.--Lat 44°21'30", long 73°23'50", Essex County, Hydrologic Unit 02010004, on right bank 0.5 mi upstream from bridge on State Highway 22, 2.5 mi downstream from North Branch Bouquet River, and 3.0 mi upstream from mouth, at Willsboro.

DRAINAGE AREA.--275 mi².

PERIOD OF RECORD.--August to September 1904 and August to November 1908 (gage heights and discharge measurements only), July 1923 to September 1968, October 1986 to September 1989 (annual maximum only), March 1990 to current year.

GAGE.--Water-stage recorder. Datum of gage is 150.88 ft above sea level. Prior to November 1908, staff gages at site 0.75 mi downstream at various datums. July 23 to Aug. 28, 1923, staff gage at site 600 ft downstream at present datum. May 1987 to February 1990, crest-stage gage at present site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Occasional diurnal fluctuation at low flow caused by powerplant at Wadhams. Slight regulation by Lincoln Pond on Black River. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--51 years (water years 1923-68, 1991-96), 295 ft³/s, 14.57 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,800 ft³/s, Oct. 1, 1924, gage height, 10.85 ft, from rating curve extended above 4,600 ft³/s; maximum gage height, 10.88 ft, Jan. 20, 1996 (ice jam); minimum discharge, 8.8 ft³/s, Sept. 20, 1957, gage height, 1.84 ft.

EXTREMES 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)
Oct. 22	1900	3,740	6.49	Jan. 28	1230	4,610	7.08
Nov. 12	2345	3,120	6.03	Apr. 24	1130	3,360	6.21
Jan. 20	0700	a*9,600	b*10.88	May 12	1930	3,910	6.61

a About; from rating curve extended as explained above.

b Ice jam.

Minimum discharge, 31 ft³/s, Oct. 3, 4, gage height, 2.14 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	303	283	e150	e400	e360	242	2060	378	228	253	71
2	37	347	297	e150	e370	e340	296	1290	308	206	546	70
3	34	827	226	e140	e330	e320	308	916	271	185	354	68
4	36	637	281	e140	e300	e320	265	923	270	2250	284	67
5	38	456	260	e140	e260	e310	245	966	366	2110	275	66
6	189	352	246	e140	e240	e300	231	782	320	887	215	66
7	649	301	e240	e150	e220	e290	240	653	328	596	168	64
8	257	304	e220	e150	e210	e290	276	570	885	470	148	61
9	162	277	e210	e150	e200	e280	297	545	690	374	153	83
10	122	237	e200	e150	e190	e280	293	594	561	330	142	93
11	99	224	e200	e150	e190	e270	374	1550	840	292	125	101
12	98	1510	e200	e140	e180	e270	461	3210	718	246	120	83
13	90	1880	e190	e140	e180	e260	508	2360	1090	219	111	80
14	83	795	e190	e140	e170	e260	694	1290	1360	314	107	96
15	365	927	e190	e140	e170	e270	668	1020	811	540	100	126
16	454	881	e190	e140	e160	e270	1460	874	569	1410	94	121
17	266	634	e190	e140	e160	e280	2320	805	453	712	98	132
18	194	526	e190	e250	e150	e280	1060	725	376	448	105	138
19	155	481	e180	e2000	e160	288	800	1070	313	346	96	105
20	139	454	e180	e6500	e260	285	1050	945	271	375	88	87
21	147	422	e180	1710	e360	386	1980	763	264	347	92	79
22	2760	402	e180	966	e500	411	1760	691	320	267	91	76
23	1290	367	e180	772	e620	298	1830	559	657	216	88	77
24	598	337	e170	698	e720	239	3030	495	469	202	92	82
25	442	294	e170	843	e680	226	1540	438	361	191	100	95
26	360	292	e170	916	e540	420	1170	390	305	281	94	118
27	296	e280	e160	270	e470	441	1470	353	266	276	113	99
28	377	e270	e160	3710	e410	301	1000	320	314	201	117	93
29	724	e280	e160	1290	e380	283	782	346	284	173	91	121
30	463	238	e150	903	---	260	759	441	249	154	84	148
31	347	---	e150	643	---	246	---	467	---	155	80	---
TOTAL	11309	15535	6193	23921	9180	9334	27409	28411	14667	15001	4624	2766
MEAN	365	518	200	772	317	301	914	916	489	484	149	92.2
MAX	2760	1880	297	6500	720	441	3030	3210	1360	2250	546	148
MIN	34	224	150	140	150	226	231	320	249	154	80	61
CFSM	1.33	1.88	.73	2.81	1.15	1.09	3.32	3.33	1.78	1.76	.54	.34
IN.	1.53	2.10	.84	3.24	1.24	1.26	3.71	3.84	1.98	2.03	.63	.37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 1996, BY WATER YEAR (WY)

	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934
MEAN	174	252	228	214	173	447	940	547	245	141	102	103
MAX	543	892	755	772	627	1375	1945	1140	918	582	417	483
(WY)	1946	1928	1928	1996	1925	1936	1993	1945	1947	1947	1990	1938
MIN	40.8	80.5	79.4	53.6	45.1	67.9	258	149	70.3	30.3	28.6	26.9
(WY)	1958	1957	1931	1940	1940	1967	1995	1941	1995	1965	1941	1941

e Estimated

ST. LAWRENCE RIVER BASIN

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04276500 BOUQUET RIVER AT WILLSBORO, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1923 - 1996	
ANNUAL TOTAL	83794		168350			
ANNUAL MEAN	230		460		295	
HIGHEST ANNUAL MEAN					468	1928
LOWEST ANNUAL MEAN					122	1965
HIGHEST DAILY MEAN	2760	Oct 22	6500	Jan 20	8400	Oct 1 1924
LOWEST DAILY MEAN	17	Sep 5	34	Oct 3	12	Sep 19 1957
ANNUAL SEVEN-DAY MINIMUM	21	Sep 1	66	Sep 2	20	Sep 23 1941
ANNUAL RUNOFF (CFSM)	.83		1.67		1.07	
ANNUAL RUNOFF (INCHES)	11.34		22.77		14.58	
10 PERCENT EXCEEDS	524		951		682	
50 PERCENT EXCEEDS	160		280		149	
90 PERCENT EXCEEDS	32		96		60	

ST. LAWRENCE RIVER BASIN

04276645 HOISINGTON BROOK AT WESTPORT, NY

LOCATION.--Lat 44°11'15", long 73°27'19", Essex County, Hydrologic Unit 02010001, on right bank 30 ft downstream from Ledge Hill Road, 500 ft west of State Route 9N, and 0.1 mi west of Westport.

DRAINAGE AREA.--6.47 mi².

PERIOD OF RECORD.--March 1990 to September 1996 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 250 ft above sea level, from topographic map.

REMARKS.--Records poor. Slight diversion at unknown location upstream from station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--6 years, 6.38 ft³/s, 13.39 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 444 ft³/s, Aug. 13, 1990, gage height, 5.90 ft, from rating curve extended above 50 ft³/s; maximum gage height, 6.47 ft, Jan. 19, 1996 (ice jam); minimum discharge, 0.06 ft³/s, Sept. 30, 1995, gage height, 3.53 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s (revised) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 19	1445	a*200	b*6.47	No other peak greater than base discharge.			
a About.							
b Ice jam.							

Minimum discharge, 0.31 ft³/s, Oct. 3, gage height, 3.64 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.67	4.4	4.5	e2.7	e11	e5.8	4.6	26	4.6	3.2	5.3	1.3
2	.69	12	e4.4	e2.7	e9.0	e5.3	5.4	16	4.0	2.7	4.8	1.2
3	.65	11	e4.2	e2.6	e7.0	4.8	5.0	13	3.6	5.6	3.3	1.2
4	1.8	7.9	4.3	e2.6	e6.0	e4.4	4.7	20	4.0	54	2.9	1.2
5	1.3	5.6	e4.0	e2.5	e5.0	4.0	4.7	16	3.5	23	2.5	1.2
6	12	4.8	3.7	e2.5	e4.4	4.1	4.7	12	3.1	11	2.1	1.1
7	3.7	4.6	3.7	e2.5	e4.0	4.0	5.0	10	6.3	7.6	2.0	1.2
8	2.2	6.3	e3.6	e2.4	e3.4	3.9	7.1	9.1	7.7	6.0	2.0	1.6
9	1.7	4.8	e3.6	e2.3	e3.0	4.1	7.4	8.3	5.4	4.8	2.0	1.7
10	1.5	4.0	e3.5	e2.3	e2.8	4.1	7.5	14	5.2	4.5	1.9	1.5
11	1.4	4.1	e3.4	e2.3	e2.6	4.2	13	35	6.3	3.8	1.8	1.3
12	1.3	47	e3.4	e2.2	e2.4	4.3	12	51	11	3.4	1.6	1.2
13	1.2	15	e3.3	e2.2	e2.1	e9.0	9.6	28	33	4.2	1.6	1.2
14	2.1	11	e3.2	e2.2	1.9	e10	20	19	23	5.3	1.5	2.3
15	9.5	33	e3.2	e2.1	2.1	e8.0	13	15	10	5.3	1.4	2.8
16	3.5	20	e3.2	e2.0	1.9	e5.3	39	13	7.2	5.3	1.8	1.9
17	2.7	13	e3.2	e3.0	1.9	e4.6	32	13	5.8	3.5	2.0	2.0
18	2.1	9.5	e3.2	e8.0	1.8	e4.3	19	11	4.9	2.9	1.6	1.6
19	1.8	9.4	e3.1	e64	1.4	e4.2	16	11	4.2	3.3	1.4	1.4
20	1.7	9.3	e3.3	e50	1.7	e4.5	16	9.6	3.8	3.5	1.3	1.2
21	17	9.0	e3.2	e41	e9.0	e5.8	23	8.9	4.0	2.6	2.1	1.2
22	31	7.9	e3.1	e30	e11	e5.1	19	7.6	8.4	2.3	1.5	1.3
23	8.7	7.0	e3.0	e23	e12	e4.7	40	6.6	7.6	2.3	1.6	1.8
24	5.3	6.1	e3.0	e20	e20	e4.3	37	5.9	4.7	2.2	2.1	1.3
25	4.3	5.6	e3.0	e28	13	e5.0	23	5.4	4.3	2.4	2.0	2.2
26	3.4	5.6	e3.0	e25	7.8	e6.0	21	5.2	3.5	6.1	1.4	1.7
27	2.9	5.3	e2.9	e18	6.4	e5.3	20	4.9	3.7	4.2	1.6	1.4
28	14	e5.2	e2.8	e23	7.2	e5.0	14	4.3	5.0	3.0	1.6	1.5
29	9.3	e5.0	e2.8	e20	6.1	e4.6	13	5.4	3.7	2.5	1.4	3.1
30	5.6	e4.8	e2.8	e17	---	4.5	16	7.0	3.4	2.2	1.3	1.8
31	4.7	---	e2.8	e14	---	4.3	---	5.7	---	2.8	1.2	---
TOTAL	159.71	298.2	104.4	422.1	167.9	157.5	471.7	416.9	204.9	195.5	62.6	47.4
MEAN	5.15	9.94	3.37	13.6	5.79	5.08	15.7	13.4	6.83	6.31	2.02	1.58
MAX	31	47	4.5	64	20	10	40	51	33	54	5.3	3.1
MIN	.65	4.0	2.8	2.0	1.4	3.9	4.6	4.3	3.1	2.2	1.2	1.1
CFSM	.80	1.54	.52	2.10	.89	.79	2.43	2.08	1.06	.97	.31	.24
IN.	.92	1.71	.60	2.43	.97	.91	2.71	2.40	1.18	1.12	.36	.27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1996, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996
MEAN	4.30	6.83	5.21	6.60	3.57	11.2	22.5
MAX	12.0	14.1	15.2	13.6	6.62	20.4	46.8
(WY)	1991	1992	1993	1994	1995	1996	1997
MIN	.72	2.11	2.47	1.40	1.73	4.79	4.83
(WY)	1995	1996	1997	1998	1999	2000	2001

e Estimated

ST. LAWRENCE RIVER BASIN

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04276645 HOISINGTON BROOK AT WESTPORT, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1990 - 1996
ANNUAL TOTAL	1453.36	2708.81	
ANNUAL MEAN	3.98	7.40	6.38
HIGHEST ANNUAL MEAN			8.89
LOWEST ANNUAL MEAN			2.94
HIGHEST DAILY MEAN	47 Nov 12	64 Jan 19	216 Apr 4 1990
LOWEST DAILY MEAN	.33 Sep 4	.65 Oct 3	.33 Sep 4 1995
ANNUAL SEVEN-DAY MINIMUM	.38 Aug 20	1.2 Aug 31	.38 Aug 20 1995
ANNUAL RUNOFF (CFSM)	.62	1.14	.99
ANNUAL RUNOFF (INCHES)	8.36	15.57	13.40
10 PERCENT EXCEEDS	9.1	18	15
50 PERCENT EXCEEDS	2.6	4.3	3.0
90 PERCENT EXCEEDS	.58	1.6	.99

ST. LAWRENCE RIVER BASIN

04276770 MILL BROOK AT PORT HENRY, NY

LOCATION.--Lat 44°03'09", long 73°28'47", Essex County, Hydrologic Unit 02010001, on left bank 30 ft downstream from bridge on Forge Hollow Road, and 2.0 mi upstream from mouth at Port Henry.

DRAINAGE AREA.--27.0 mi².

PERIOD OF RECORD.--March 1990 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 150 ft above sea level, from topographic map.

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

AVERAGE DISCHARGE.--6 years, 34.2 ft³/s, 17.20 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,290 ft³/s, Jan. 19, 1996, gage height, 4.97 ft, from rating curve extended above 370 ft³/s; minimum discharge, 1.9 ft³/s, July 5, 1995; minimum gage height, 0.66 ft, Aug. 3, Sept. 8, 9, 10, 1991.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 21	2300	464	3.05	July 4	1200	433	3.20
Jan. 19	2045	a1,290	*4.97				

a From rating curve extended as explained above.

Minimum discharge, 3.9 ft³/s, Oct. 2-3, 4; minimum gage height, 0.73 ft, Sept. 6, 7, 21, 22.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	44	33	e15	e62	e30	33	141	24	22	44	6.9
2	3.9	92	34	e15	e55	e28	42	104	21	19	44	6.6
3	3.9	128	42	e14	e44	e27	36	86	20	26	34	6.4
4	11	127	35	e14	e39	e25	31	107	23	269	28	6.1
5	9.7	93	35	e14	e35	e24	30	96	22	138	23	6.0
6	75	74	31	e14	e32	e24	29	79	19	75	20	5.9
7	36	65	e27	e15	e30	e23	31	68	34	56	18	5.7
8	19	69	e24	e14	e29	e23	35	59	49	65	17	8.3
9	13	56	e23	e14	e28	e22	37	53	35	39	17	11
10	9.5	48	e23	e14	e27	e22	38	57	36	38	16	8.9
11	8.3	50	e23	e14	e25	e22	50	131	69	31	15	7.8
12	7.2	200	e22	e13	e24	e24	62	283	165	26	14	6.9
13	6.4	138	e21	e13	e23	e27	57	185	107	33	14	6.9
14	9.3	112	e21	e13	e22	e31	95	122	102	50	13	13
15	45	141	e20	e12	e21	39	79	96	65	89	12	16
16	24	120	e21	e12	e20	32	276	82	49	67	13	10
17	17	95	e20	e13	e20	e27	232	77	42	42	13	9.0
18	13	77	e20	e20	e18	e24	150	69	34	33	12	7.9
19	11	73	e19	e460	e18	e24	118	90	29	32	11	6.7
20	10	65	e19	e440	e31	e29	118	69	26	31	10	6.0
21	88	64	e18	148	e43	43	170	67	30	25	11	5.6
22	248	63	e18	106	e70	43	136	55	46	22	9.6	5.5
23	95	57	e18	82	e100	32	190	46	53	20	10	6.9
24	65	49	e17	e85	e85	29	254	41	35	19	12	6.1
25	55	42	e17	99	e68	37	157	36	31	33	10	8.2
26	44	44	e17	e73	e44	56	135	33	26	55	12	7.3
27	38	e38	e17	185	e36	39	126	31	24	46	11	6.7
28	115	e36	e16	201	e35	33	100	28	26	29	9.6	6.9
29	85	e33	e16	e110	e31	32	86	28	22	24	8.7	13
30	58	32	e16	e90	---	32	97	34	23	21	7.5	9.2
31	48	---	e15	e70	---	30	---	31	---	27	7.1	---
TOTAL	1275.4	2325	698	2402	1115	933	3030	2484	1287	1502	496.5	237.4
MEAN	41.1	77.5	22.5	77.5	38.4	30.1	101	80.1	42.9	48.5	16.0	7.91
MAX	248	200	42	460	100	56	276	283	165	269	44	16
MIN	3.9	32	15	12	18	22	29	28	19	19	7.1	5.5
CFSM	1.52	2.87	.83	2.87	1.42	1.11	3.74	2.97	1.59	1.79	.59	.29
IN.	1.76	3.20	.96	3.31	1.54	1.29	4.17	3.42	1.77	2.07	.68	.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1996, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996
MEAN	23.7	37.6	29.8	36.5	19.6	52.4	114
MAX	55.1	77.5	66.4	77.5	38.4	98.2	223
(WY)	1991	1996	1991	1996	1996	1990	1993
MIN	7.14	13.7	15.7	10.3	9.08	18.6	31.9
(WY)	1995	1994	1994	1994	1992	1993	1995

e Estimated

ST. LAWRENCE RIVER BASIN

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04276770 MILL BROOK AT PORT HENRY, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1990 - 1996	
ANNUAL TOTAL	10115.8		17785.3			
ANNUAL MEAN	27.7		48.6		34.3	
HIGHEST ANNUAL MEAN					48.6 1996	
LOWEST ANNUAL MEAN					20.1 1995	
HIGHEST DAILY MEAN	248	Oct 22	460	Jan 19	915	Apr 17 1993
LOWEST DAILY MEAN	2.1	Jul 5	3.9	Oct 2	2.1	Sep 9 1991
ANNUAL SEVEN-DAY MINIMUM	2.4	Jun 30	6.2	Sep 1	2.4	Jun 30 1995
ANNUAL RUNOFF (CFSM)	1.03		1.80		1.27	
ANNUAL RUNOFF (INCHES)	13.94		24.50		17.25	
10 PERCENT EXCEEDS	67		107		84	
50 PERCENT EXCEEDS	18		31		19	
90 PERCENT EXCEEDS	3.7		9.6		6.0	

ST. LAWRENCE RIVER BASIN

04276842 PUTNAM CREEK EAST OF CROWN POINT CENTER, NY

LOCATION.--Lat 43°56'31", long 73°27'54", Essex County, Hydrologic Unit 02010001, on right bank 200 ft upstream from bridge at Fish Hatchery, 200 ft downstream from Rennie Brook, and 0.2 mi east of Crown Point Center.

DRAINAGE AREA.--51.6 mi².

PERIOD OF RECORD.--March 1990 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 220 ft above sea level, from topographic map.

REMARKS.--Records poor. Several measurements of water temperature were made during the year. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--6 years, 74.8 ft³/s, 19.69 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 2,500 ft³/s, Apr. 17, 1993, gage height, 7.5 ft, from reconstructed graph, 8.14 ft from crest-stage gage; minimum discharge, 0.53 ft³/s, July 14, 15, 1995; minimum gage height, 3.02 ft, July 26, 1993.

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)
Jan. 19	1830	ice jam	a*7.32	Apr. 17	0130	952	b6.45
Jan. 20	0330	*1,830	7.11				

a Recorded; outside gage height was 8.11 ft, from crest-stage gage.

b Recorded; outside gage height was 6.79 ft, from crest-stage gage.

Minimum discharge, 3.0 ft³/s, Oct. 2, 3, 4, gage height, 3.44 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	152	e64	e30	e120	86	73	e280	37	20	31	7.3
2	3.0	163	e62	e29	e96	71	91	e350	32	17	40	6.8
3	3.1	198	64	e30	e80	63	94	e140	28	24	37	6.3
4	6.1	199	60	e32	e72	51	86	e220	30	435	31	5.9
5	8.1	167	58	e35	e70	e46	80	e180	30	372	25	5.5
6	58	137	58	e40	e69	e42	76	172	25	203	21	5.1
7	69	120	56	e44	e62	e40	74	145	31	127	19	5.0
8	55	121	50	e39	e58	e39	79	121	42	89	16	6.7
9	44	108	e49	e32	e53	e37	85	105	44	65	15	8.9
10	35	91	e47	e29	e47	e36	88	116	59	50	14	8.0
11	29	85	e45	e27	e44	e38	97	255	107	40	13	7.4
12	25	227	e42	e26	e40	e39	110	751	122	33	11	6.9
13	21	246	e41	e26	e37	e42	114	584	119	37	10	6.7
14	20	210	e40	e25	e36	52	187	355	120	49	8.7	10
15	56	233	e40	e25	e35	79	209	256	92	49	7.7	9.2
16	74	239	e40	e26	e33	79	534	198	68	51	8.9	8.8
17	76	201	e39	e28	e32	65	836	176	53	41	8.7	8.8
18	68	166	e38	e32	e31	60	471	159	43	34	11	8.2
19	56	150	e38	e420	e29	61	326	228	35	30	11	7.4
20	47	138	e38	1500	31	73	264	170	29	28	9.8	6.8
21	98	132	e37	702	51	90	287	148	31	23	9.3	6.3
22	479	122	e36	404	88	103	291	122	42	20	8.4	6.1
23	416	108	e34	279	104	89	328	100	54	17	8.3	8.8
24	251	94	e34	247	154	74	432	87	40	15	11	8.1
25	182	81	e34	322	175	77	347	72	35	15	14	9.9
26	135	78	e33	277	152	109	292	63	30	26	10	9.4
27	105	76	e32	421	118	103	271	55	27	35	10	8.4
28	251	e70	e31	571	115	88	220	49	26	27	10	8.7
29	337	e68	e32	388	107	81	e180	43	22	22	17	15
30	250	e66	e32	283	---	76	e190	45	21	19	10	15
31	192	---	e31	e170	---	73	---	43	---	22	8.4	---
TOTAL	3452.4	4246	1335	6539	2139	2062	6812	5788	1474	2035	465.2	241.4
MEAN	111	142	43.1	211	73.8	66.5	227	187	49.1	65.6	15.0	8.05
MAX	479	246	64	1500	175	109	836	751	122	435	40	15
MIN	3.0	66	31	25	29	36	73	43	21	15	7.7	5.0
CFSM	2.16	2.74	.83	4.09	1.43	1.29	4.40	3.62	.95	1.27	.29	.16
IN.	2.49	3.06	.96	4.71	1.54	1.49	4.91	4.17	1.06	1.47	.34	.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1996, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	53.8	83.7	72.9	87.8	42.9	117	276	113	39.2	18.9	20.9	9.91
MAX	128	167	188	211	75.7	210	566	214	94.9	65.6	64.7	19.2
(WY)	1991	1991	1991	1996	1991	1990	1993	1990	1992	1996	1990	1992
MIN	7.06	29.5	43.1	22.1	17.8	48.9	64.7	32.0	8.28	3.20	5.16	3.02
(WY)	1995	1995	1996	1994	1992	1993	1995	1995	1995	1995	1991	1995

e Estimated

ST. LAWRENCE RIVER BASIN

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04276842 PUTNAM CREEK EAST OF CROWN POINT CENTER, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1990 - 1996
ANNUAL TOTAL	20929.13	36589.0	
ANNUAL MEAN	57.3	100	74.8
HIGHEST ANNUAL MEAN			100 1996
LOWEST ANNUAL MEAN			40.5 1995
HIGHEST DAILY MEAN	482 Mar 17	1500 Jan 20	2200 Apr 17 1993
LOWEST DAILY MEAN	.59 Jul 15	3.0 Oct 2	.59 Jul 15 1995
ANNUAL SEVEN-DAY MINIMUM	.71 Jul 10	5.9 Sep 2	.71 Jul 10 1995
ANNUAL RUNOFF (CFSM)	1.11	1.94	1.45
ANNUAL RUNOFF (INCHES)	15.09	26.38	19.69
10 PERCENT EXCEEDS	160	251	187
50 PERCENT EXCEEDS	33	50	35
90 PERCENT EXCEEDS	2.2	9.1	6.4

LOCATION.--Lat 43°48'28", long 73°27'30", Essex County, Hydrologic Unit 02010001, on west shore about 500 ft north of Hooper's dock at Rogers Rock, and 0.4 mi west of Baldwin.

PERIOD OF RECORD.--July 1913 to current year.

GAGE.--Water-stage recorder. Datum of

REMARKS.--Elevation of lake regulated by floodgates at Ticonderoga. Prior to October 1974, lake was regulated by powerplant wheel gate and floodgates. Lake George has been controlled by a dam at its outlet for more than 100 years. Area of water surface is 44 mi². Telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 5.09 ft, Apr. 9, 1936; minimum, 0.64 ft, Dec. 20, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.37 ft, May 13, 14; minimum, 2.96 ft, Oct. 4.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.06	3.85	3.49	3.24	4.03	3.32	3.35	4.01	3.81	3.69	3.74	3.46
2	3.06	3.87	3.45	3.23	3.99	3.32	3.37	4.00	3.82	3.66	3.75	3.45
3	3.03	3.92	3.45	3.22	3.92	3.36	3.40	3.96	3.81	3.64	3.75	3.45
4	3.05	3.93	3.46	3.27	3.88	3.35	3.40	3.97	3.81	3.83	3.76	3.47
5	3.04	3.90	3.43	3.29	3.85	3.34	3.40	3.96	3.84	3.89	3.75	3.46
6	3.16	3.85	3.48	3.26	3.80	3.32	3.41	3.94	3.82	3.87	3.74	3.42
7	3.22	3.82	3.43	3.26	3.75	3.31	3.43	3.95	3.81	3.82	3.73	3.40
8	3.24	3.79	3.38	3.24	3.71	3.32	3.49	3.89	3.81	3.80	3.72	3.45
9	3.21	3.74	3.40	3.25	3.67	3.31	3.51	3.89	3.82	3.78	3.68	3.50
10	3.21	3.71	3.48	3.22	3.61	3.28	3.50	3.92	3.84	3.76	3.62	3.47
11	3.22	3.68	3.46	3.22	3.58	3.25	3.55	3.96	3.85	3.74	3.60	3.47
12	3.22	3.77	3.42	3.20	3.56	3.20	3.53	4.21	3.83	3.70	3.62	3.46
13	3.22	3.75	3.36	3.24	3.53	3.18	3.53	4.34	3.84	3.67	3.59	3.43
14	3.24	3.69	3.36	3.25	3.48	3.17	3.64	4.34	3.85	3.74	3.53	3.47
15	3.39	3.78	3.39	3.22	3.45	3.15	3.68	4.30	3.83	3.78	3.54	3.47
16	3.39	3.83	3.37	3.22	3.42	3.17	3.85	4.27	3.81	3.83	3.57	3.45
17	3.36	3.78	3.38	3.20	3.40	3.19	4.09	4.23	3.81	3.83	3.55	3.40
18	3.38	3.73	3.37	3.16	3.37	3.20	4.08	4.20	3.79	3.81	3.54	3.35
19	3.31	3.71	3.32	3.33	3.33	3.17	4.06	4.22	3.80	3.80	3.51	3.37
20	3.32	3.70	3.36	3.82	3.30	3.18	4.05	4.18	3.79	3.80	3.53	3.40
21	3.38	3.67	3.38	3.88	3.31	3.23	4.05	4.15	3.78	3.75	3.53	3.40
22	3.64	3.64	3.36	3.89	3.31	3.25	4.02	4.11	3.76	3.76	3.52	3.35
23	3.65	3.63	3.33	3.87	3.31	3.26	4.04	4.04	3.76	3.74	3.53	3.37
24	3.65	3.55	3.33	3.91	3.35	3.25	4.10	3.95	3.76	3.71	3.51	3.42
25	3.62	3.53	3.34	3.96	3.39	3.27	4.06	3.92	3.74	3.72	3.56	3.41
26	3.58	3.51	3.34	3.93	3.36	3.31	4.05	3.89	3.71	3.77	3.49	3.42
27	3.56	3.47	3.31	3.99	3.34	3.31	4.04	3.85	3.70	3.76	3.44	3.44
28	3.83	3.48	3.31	4.15	3.36	3.31	3.98	3.85	3.65	3.74	3.48	3.49
29	3.99	3.42	3.30	4.14	3.34	3.30	3.93	3.77	3.71	3.74	3.52	3.50
30	3.95	3.45	3.30	4.13	---	3.30	3.94	3.78	3.73	3.73	3.48	3.48
31	3.91	---	3.29	4.09	---	3.32	---	3.81	---	3.73	3.52	---
MEAN	3.39	3.70	3.38	3.53	3.54	3.26	3.75	4.03	3.79	3.76	3.59	3.44
MAX	3.99	3.93	3.49	4.15	4.03	3.36	4.10	4.34	3.85	3.89	3.76	3.50
MIN	3.03	3.42	3.29	3.16	3.30	3.15	3.35	3.77	3.65	3.64	3.44	3.33

CAL YR 1995	MEAN 3.43	MAX 3.99	MIN 2.85
WTR YR 1996	MEAN 3.60	MAX 4.34	MIN 3.03

ST. LAWRENCE RIVER BASIN

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04278300 NORTHWEST BAY BROOK NEAR BOLTON LANDING, NY

LOCATION.--Lat 43°39'48", long 73°36'14", Warren County, Hydrologic Unit 02010001, on left bank 10 ft downstream from county bridge on Padanarum Road, 7.7 mi north of Bolton Landing.

DRAINAGE AREA.--22.0 mi².

PERIOD OF RECORD.--October 1965 to September 1968, October 1968 to September 1971 (annual maximum only), October 1971 to current year.

REVISED RECORDS.--WDR NY-90-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 423.60 ft above sea level. Prior to Oct. 1, 1973, at datum 1.00 ft higher.

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

AVERAGE DISCHARGE.--28 years (water years 1966-68, 1972-96), 35.8 ft³/s, 22.10 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,950 ft³/s, Jan. 19, 1996, gage height, 6.57 ft, from rating curve extended above 590 ft³/s on basis of slope-area measurement at gage height 5.53 ft; maximum gage height, 7.14 ft, Feb. 11, 1981 (ice jam); minimum discharge, 0.28 ft³/s, Sept. 27, 28, 29, 1968, gage height, 0.18 ft, present datum.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 21	2130	a1,210	5.16	Jan. 27	1800	709	4.26
Oct. 28	0800	876	4.47	Apr. 16	2045	552	3.85
Jan. 19	1330	ice jam	*6.58	May 12	1030	705	4.25
Jan. 19	1800	a*1,950	6.57				

a From rating curve extended as explained above.

Minimum discharge, 1.6 ft³/s, Oct. 4, gage height, 0.61 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	68	e25	e10	e50	e33	30	169	13	6.8	36	4.6
2	1.8	115	e23	e9.6	e32	e28	40	98	12	5.3	32	4.1
3	1.7	146	e23	e9.4	e22	e26	33	76	11	5.4	23	3.7
4	4.6	119	23	e9.0	e17	e25	29	92	13	68	19	3.2
5	5.2	84	22	e9.0	e17	e24	27	97	11	63	15	2.9
6	39	66	e22	e9.6	e18	23	25	76	9.3	28	13	2.6
7	27	59	e21	e10	e19	22	27	63	17	19	11	2.4
8	19	66	e20	e11	e20	26	32	55	30	15	9.5	4.6
9	14	54	e20	e11	e20	26	35	48	22	12	11	10
10	11	45	e19	e11	e19	25	38	73	26	9.3	9.9	6.5
11	9.4	42	e18	e11	e17	21	40	243	27	7.9	8.3	5.0
12	8.3	200	e18	e10	e16	21	50	524	19	6.8	7.1	4.0
13	7.3	117	e18	e10	e17	22	48	197	31	14	6.5	4.0
14	14	89	e17	e9.6	e17	25	96	114	44	25	5.7	7.8
15	191	131	e17	e9.4	e16	40	77	85	23	24	4.9	5.7
16	63	117	e16	e9.4	e15	37	403	72	16	34	4.6	5.5
17	41	87	e16	e10	e14	32	274	68	13	24	4.7	5.1
18	30	70	e15	e11	e13	28	131	57	11	16	4.4	7.6
19	25	65	e15	e750	e12	30	95	61	10	15	3.6	5.2
20	21	60	e14	388	e13	38	81	51	9.7	17	3.1	4.0
21	236	54	e14	160	e30	48	95	48	9.2	12	3.5	3.4
22	373	51	e14	97	e50	45	82	41	9.7	9.2	2.9	3.9
23	126	45	e13	72	e80	36	111	34	12	7.9	3.5	13
24	82	39	e13	105	e190	31	116	30	8.4	7.0	4.0	8.3
25	73	34	e12	134	e100	35	83	26	13	15	3.6	8.1
26	54	33	e12	162	55	56	78	23	9.1	94	2.9	6.7
27	45	31	e11	295	45	42	85	21	7.3	55	3.3	5.8
28	522	31	e11	205	e43	36	65	19	6.9	31	4.8	6.3
29	199	e28	e11	144	e38	31	61	17	6.1	20	27	24
30	113	e26	e10	e100	---	30	86	17	7.2	16	11	15
31	81	---	e10	e80	---	28	---	15	---	22	6.5	---
TOTAL	2439.2	2172	513	2872.0	1015	970	2473	2610	456.9	704.6	305.3	193.0
MEAN	78.7	72.4	16.5	92.6	35.0	31.3	82.4	84.2	15.2	22.7	9.85	6.43
MAX	522	200	25	750	190	56	403	524	44	94	36	24
MIN	1.7	26	10	9.0	12	21	25	15	6.1	5.3	2.9	2.4
CFSM	3.58	3.29	.75	4.21	1.59	1.42	3.75	3.83	.69	1.03	.45	.29
IN.	4.12	3.67	.87	4.86	1.72	1.64	4.18	4.41	.77	1.19	.52	.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1996, BY WATER YEAR (WY)

	MEAN	25.5	40.4	40.0	33.4	30.5	73.4	89.4	47.6	18.9	9.90	10.6	10.1
MAX	83.6	93.9	131	92.6	168	187	176	95.0	43.4	32.1	62.4	45.5	
(WY)	1978	1973	1974	1996	1981	1979	1994	1983	1968	1972	1990	1975	
MIN	1.65	6.22	15.3	5.08	5.81	23.5	27.1	11.1	3.38	1.71	.93	.89	
(WY)	1983	1983	1989	1981	1977	1967	1995	1987	1988	1977	1985	1982	

e Estimated

ST. LAWRENCE RIVER BASIN

04278300 NORTHWEST BAY BROOK NEAR BOLTON LANDING, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1966 - 1996
ANNUAL TOTAL	10693.07	16724.0	
ANNUAL MEAN	29.3	45.7	35.8
HIGHEST ANNUAL MEAN			50.8 1990
LOWEST ANNUAL MEAN			20.1 1995
HIGHEST DAILY MEAN	522 Oct 28	750 Jan 19	1300 Mar 6 1979
LOWEST DAILY MEAN	.65 Sep 5	1.7 Oct 3	.42 Sep 28 1968
ANNUAL SEVEN-DAY MINIMUM	.74 Sep 1	3.4 Aug 20	.56 Sep 8 1982
ANNUAL RUNOFF (CFSM)	1.33	2.08	1.63
ANNUAL RUNOFF (INCHES)	18.08	28.28	22.12
10 PERCENT EXCEEDS	73	99	83
50 PERCENT EXCEEDS	14	22	17
90 PERCENT EXCEEDS	1.3	5.4	2.6

ST. LAWRENCE RIVER BASIN

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04279040 MILL BROOK AT PUTNAM, NY

LOCATION.--Lat 43°44'01", long 73°23'20", Washington County, Hydrologic Unit 02010001, on right bank 50 ft downstream from bridge on County Highway 3 and 1.0 mi southeast of Putnam.

DRAINAGE AREA.--10.3 mi².

PERIOD OF RECORD.--March 1990 to September 1996 (discontinued).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 120 ft above sea level, from topographic map. Prior to March 30, 1993, at datum 1.00 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flows can be modified by natural storage in small pond 150 ft upstream from station.

AVERAGE DISCHARGE.--6 years, 12.0 ft³/s, 15.82 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 681 ft³/s, Jan. 19, 1996, gage height, 5.19 ft, outside gage height, 6.57 ft, from crest-stage gage, from rating curve extended above 100 ft³/s; no flow for part of each day, Aug. 30, 31, 1993; minimum gage height, 0.86 ft, Aug. 31, 1993.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 130 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 28	0530	133	3.48	Jan. 27	1615	a358	4.37
Jan. 19	1915	a*681	b*5.19	May 12	1130	a284	4.12

a From rating curve extended as explained above.

b Recorded; outside gage height, 6.57 ft, from crest-stage gage.

Minimum discharge, 0.67 ft³/s, Sept. 8, gage height, 1.34 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	17	e9.0	e3.6	e30	e11	9.4	48	6.2	2.2	29	1.4
2	1.1	28	e8.4	e3.4	29	e9.8	12	29	5.3	1.8	25	1.1
3	2.0	31	e7.8	e3.4	18	e9.0	11	24	4.8	1.6	13	.96
4	1.3	24	e7.4	e3.3	e11	e8.2	8.9	35	6.6	68	9.2	.98
5	1.1	18	e7.2	e3.3	e10	e7.8	8.3	37	7.0	47	7.6	.90
6	17	15	e7.4	e3.4	e10	e7.2	7.8	27	5.4	15	6.3	.84
7	11	17	7.5	e3.5	e9.6	e8.0	8.1	23	6.9	9.3	6.0	.76
8	4.6	22	6.6	e3.7	e10	e9.0	11	19	14	6.9	4.8	1.1
9	2.0	16	7.0	e4.4	e11	7.3	13	17	8.9	5.6	4.9	3.0
10	1.8	14	e6.2	e4.8	e12	6.7	11	26	8.3	4.5	4.7	2.4
11	1.6	14	e5.8	e4.5	e11	6.7	13	95	7.9	3.8	4.1	1.7
12	1.2	41	e5.6	e4.2	e8.0	6.9	13	181	5.8	3.2	3.6	1.4
13	1.1	26	e5.3	e4.0	e6.8	8.5	12	92	5.4	8.5	3.3	1.1
14	1.1	23	5.3	e3.8	e5.6	15	34	56	6.4	16	2.8	1.9
15	14	56	6.1	e3.7	e5.4	41	25	43	5.2	38	2.4	1.9
16	6.6	38	6.3	e3.7	e5.2	18	88	36	4.1	39	3.2	2.0
17	4.3	28	5.9	e4.5	e5.0	19	90	36	3.5	19	3.8	2.1
18	e3.2	22	5.7	9.2	e4.5	14	49	27	3.4	11	3.3	2.6
19	e2.8	23	e5.4	186	e4.0	12	36	26	2.8	9.5	2.7	2.3
20	e2.2	24	e5.2	165	e4.0	15	30	21	2.8	9.3	2.2	1.8
21	18	21	e5.0	e100	e32	22	32	20	3.0	6.8	2.1	1.7
22	48	19	e4.9	57	e38	23	28	17	3.4	5.3	1.9	1.6
23	16	17	e4.8	34	26	15	46	13	4.4	4.6	1.8	3.5
24	9.5	15	e4.7	63	46	13	46	12	3.3	6.9	1.9	3.1
25	7.5	14	e4.6	e74	30	14	30	11	7.9	6.8	1.7	3.1
26	5.7	13	e4.4	e50	19	21	29	9.5	4.7	41	1.5	2.9
27	4.9	e12	e4.3	142	15	15	30	8.5	3.1	16	3.5	2.4
28	98	e11	e4.2	102	e16	11	23	7.6	2.7	10	4.5	2.7
29	50	11	e4.2	e90	e13	11	22	7.7	2.3	7.0	2.5	8.1
30	26	9.7	e4.1	59	---	10	31	8.3	2.3	5.9	2.0	4.7
31	19	---	e4.0	e40	---	9.4	---	7.6	---	16	1.5	---
TOTAL	383.9	639.7	180.3	1236.4	445.1	404.5	807.5	1020.2	157.8	445.5	166.8	66.04
MEAN	12.4	21.3	5.82	39.9	15.3	13.0	26.9	32.9	5.26	14.4	5.38	2.20
MAX	98	56	9.0	186	46	41	90	181	14	68	29	8.1
MIN	1.1	9.7	4.0	3.3	4.0	6.7	7.8	7.6	2.3	1.6	1.5	.76
CFSM	1.20	2.07	.56	3.87	1.49	1.27	2.61	3.20	.51	1.40	.52	.21
IN.	1.39	2.31	.65	4.47	1.61	1.46	2.92	3.68	.57	1.61	.60	.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1996, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996
MEAN	7.98	13.9	14.0	15.8	8.00	23.3	38.1
MAX	19.4	28.0	37.4	39.9	15.3	46.6	74.8
(WY)	1991	1991	1991	1996	1996	1990	1993
MIN	1.03	3.87	5.82	3.39	4.39	13.0	9.77
(WY)	1994	1995	1996	1994	1992	1996	1995

e Estimated

ST. LAWRENCE RIVER BASIN

04279040 MILL BROOK AT PUTNAM, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1990 - 1996
ANNUAL TOTAL	3058.83	5953.74	
ANNUAL MEAN	8.38	16.3	12.0
HIGHEST ANNUAL MEAN			16.3 1996
LOWEST ANNUAL MEAN			6.48 1995
HIGHEST DAILY MEAN	98 Oct 28	186 Jan 19	286 Apr 4 1990
LOWEST DAILY MEAN	.04 Sep 5	.76 Sep 7	.01 Aug 30 1993
ANNUAL SEVEN-DAY MINIMUM	.05 Sep 2	.95 Sep 2	.05 Aug 25 1993
ANNUAL RUNOFF (CFSM)	.81	1.58	1.17
ANNUAL RUNOFF (INCHES)	11.05	21.50	15.86
10 PERCENT EXCEEDS	22	38	32
50 PERCENT EXCEEDS	4.7	8.0	5.8
90 PERCENT EXCEEDS	.15	2.0	.63

04279125 MOUNT HOPE BROOK AT SOUTH BAY NEAR WHITEHALL, NY

LOCATION.--Lat 43°31'19", long 73°30'27", Washington County, Hydrologic Unit 02010001, on right bank 10 ft downstream from County Highway 16 bridge, 400 ft upstream from confluence with Spectacle Brook, and 5.6 mi southwest of Whitehall at South Bay.

DRAINAGE AREA.--11.6 mi².

PERIOD OF RECORD.--March 1990 to September 1996 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 110 ft above sea level, from topographic map.

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

AVERAGE DISCHARGE.--6 years, 19.8 ft³/s, 23.18 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 880 ft³/s, Jan. 19, 1996, gage height, 7.48 ft, from rating curve extended above 220 ft³/s; minimum daily discharge, 0.04 ft³/s, Aug. 3, Sept. 8-9, 1991, Sept. 6, 1995.

EXTREMES 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)
Oct. 28	0930	372	5.82	Jan. 19	1730	a*880	*7.48

a From rating curve extended as explained above.

Minimum daily discharge, 0.18 ft³/s, Oct. 2-3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.19	23	15	e6.0	e25	e18	20	70	8.7	2.6	50	2.3
2	.18	31	14	e5.8	e17	e16	24	52	7.7	2.2	36	1.9
3	.18	49	14	e5.6	e10	e14	21	44	7.1	2.4	28	1.6
4	.88	43	13	e5.2	e8.0	e12	19	68	10	55	21	1.4
5	.93	30	12	e4.7	e8.0	e11	18	70	14	49	17	1.4
6	9.2	25	e11	e4.7	e8.8	e10	17	56	9.5	24	13	1.4
7	3.9	24	e11	e4.9	e9.2	e10	20	46	11	16	10	1.6
8	2.4	29	e10	e5.1	e10	e11	23	37	13	11	8.8	4.0
9	1.6	24	e10	e5.4	e10	e11	25	32	11	8.2	9.9	6.2
10	1.2	20	e9.8	e5.6	e9.4	e9.4	26	59	13	6.2	9.0	3.4
11	1.0	18	e9.8	e5.6	e9.0	e9.4	27	141	14	4.9	7.2	2.6
12	.96	60	e9.6	e5.6	e8.0	e10	36	225	11	4.1	6.2	2.2
13	.92	40	e9.4	e6.0	e8.0	11	36	117	11	17	5.7	2.4
14	1.0	32	e9.2	e5.4	e9.0	12	78	72	9.1	29	5.0	6.0
15	11	41	e9.0	e5.0	e9.0	20	60	55	7.4	56	4.4	4.0
16	5.8	36	e8.8	e5.2	e8.2	21	225	48	6.0	84	5.6	3.2
17	4.0	29	e8.6	e6.0	e8.0	18	167	49	5.3	50	7.3	3.1
18	3.2	25	e8.4	e8.0	e7.4	17	88	43	4.8	29	5.1	4.7
19	2.7	25	e8.2	e280	e7.0	19	63	73	4.4	27	4.1	3.0
20	2.2	24	e8.0	e230	e7.2	24	52	53	4.4	32	3.5	2.3
21	18	24	e8.0	97	e25	28	56	43	4.5	19	4.8	2.0
22	45	23	e7.8	62	e45	28	49	32	4.1	13	3.8	5.3
23	20	20	e7.6	46	e35	23	80	26	4.1	10	3.6	39
24	13	17	e7.4	79	e70	20	85	23	3.4	8.5	3.6	18
25	9.5	16	e7.2	90	62	25	60	20	3.4	8.8	3.1	14
26	7.6	15	e7.0	68	40	38	50	17	2.9	19	2.6	10
27	6.8	15	e6.8	107	31	28	47	15	2.6	15	3.5	8.2
28	222	16	e6.6	107	e27	23	38	14	2.4	11	8.7	9.6
29	88	16	e6.4	72	e22	21	39	12	2.2	9.1	10	47
30	39	15	e6.4	e50	---	19	51	11	2.9	7.9	5.0	25
31	27	---	e6.0	e35	---	18	---	10	---	27	3.1	---
TOTAL	549.34	805	286.0	1422.8	553.2	554.8	1600	1633	214.9	657.9	308.6	236.8
MEAN	17.7	26.8	9.23	45.9	19.1	17.9	53.3	52.7	7.16	21.2	9.95	7.89
MAX	222	60	15	280	70	38	225	225	14	84	50	47
MIN	.18	15	6.0	4.7	7.0	9.4	17	10	2.2	2.2	2.6	1.4
CFSM	1.53	2.31	.80	3.96	1.64	1.54	4.60	4.54	.62	1.83	.86	.68
IN.	1.76	2.58	.92	4.56	1.77	1.78	5.13	5.24	.69	2.11	.99	.76

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1996, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996
MEAN	13.7	24.9	22.4	20.9	11.3	30.8	58.1
MAX	28.9	39.8	41.3	45.9	19.1	48.9	114
(WY)	1991	1993	1991	1996	1996	1990	1993
MIN	2.49	11.1	9.23	8.47	7.15	17.9	14.3
(WY)	1994	1995	1996	1994	1993	1996	1995

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1990 - 1996

	1995 CALENDAR YEAR	1996 WATER YEAR	1990 - 1996
ANNUAL TOTAL	4325.19	8822.34	
ANNUAL MEAN	11.8	24.1	19.8
HIGHEST ANNUAL MEAN			26.4
LOWEST ANNUAL MEAN			10.6
HIGHEST DAILY MEAN	222 Oct 28	280 Jan 19	458 Apr 17 1993
LOWEST DAILY MEAN	.04 Sep 6	.18 Oct 2	.04 Aug 3 1991
ANNUAL SEVEN-DAY MINIMUM	1.06 Sep 1	1.3 Oct 8	.06 Aug 2 1991
ANNUAL RUNOFF (CFSM)	1.02	2.08	1.70
ANNUAL RUNOFF (INCHES)	13.87	28.29	23.15
10 PERCENT EXCEEDS	29	56	47
50 PERCENT EXCEEDS	7.9	11	10
90 PERCENT EXCEEDS	.23	3.1	1.0

e Estimated

ST. LAWRENCE RIVER BASIN

04280000 POULTNEY RIVER BELOW FAIR HAVEN, VT

LOCATION.--Lat 43°37'40", long 73°18'50", Rutland County, Hydrologic Unit 02010001, on right bank 0.3 mi downstream from Carver Falls, 1.9 mi upstream from Hubbardton River, and 3.2 mi northwest of Fair Haven.

DRAINAGE AREA.--187 mi².

PERIOD OF RECORD.--Discharge records: October 1928 to current year.

Water-quality records: Water year 1954.

REVISED RECORDS.--WSP 1114: 1929(M), 1932-35.

GAGE.--Water-stage recorder. Elevation of gage is 105 ft above sea level, from topographic map.

REMARKS.--Records fair except for periods of estimated daily discharges and Oct. 3 to Nov. 30, which are poor. Flow regulated by powerplant upstream and Lake Bomoseen.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,800 ft³/s, July 20, 1945, gage height, 24.36 ft, from high-water mark in well, from rating curve extended above 2,600 ft³/s on basis of computations of flow over dam at gage heights 16.10 ft, 21.40 ft, and 24.36 ft; minimum daily discharge, 2.1 ft³/s, Aug. 8, 1965, Sept. 13, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 29	unknown	2,960	c12.14	May 13	0230	3,770	13.56
Jan. 20	0615	*10,200	*20.91	July 16	1515	2,780	11.76
Jan. 25	1130	2,670	11.53				

c From high-water mark in well.

Minimum daily discharge, 9.9 ft³/s, Oct. 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	465	162	88	445	295	222	923	160	73	827	37
2	11	473	137	e73	e410	225	258	839	110	48	610	50
3	12	604	134	e72	e360	216	286	733	129	34	449	45
4	36	481	156	e69	e310	156	266	892	132	558	890	31
5	32	e308	134	e68	e270	170	258	1200	175	1340	536	47
6	49	e295	130	e68	e230	156	222	963	151	691	361	36
7	54	e284	121	e67	e215	156	189	818	122	253	261	26
8	39	e340	111	e68	e200	234	191	547	151	172	215	32
9	17	e280	93	e68	e188	224	216	461	131	129	191	50
10	29	e230	106	e72	e179	231	236	495	107	94	187	50
11	32	e220	102	e66	e168	214	252	994	135	99	148	46
12	14	519	130	e66	e162	188	369	2570	116	84	123	28
13	15	624	219	e70	e157	182	376	2910	70	123	107	35
14	16	453	192	e70	e150	191	651	1720	100	893	96	33
15	38	e580	107	e66	e145	304	598	1320	104	448	86	38
16	51	e460	115	e60	e135	448	978	1080	74	1970	80	42
17	46	e470	98	e67	e130	308	1980	1050	78	1460	137	37
18	36	e395	96	e87	e125	289	1630	841	70	850	106	23
19	19	e320	91	e900	e127	212	1360	726	72	612	82	41
20	36	287	101	7010	e130	266	1150	568	55	647	74	35
21	39	259	98	3210	e220	365	1000	490	89	520	68	22
22	567	241	98	2460	593	416	762	433	100	368	65	23
23	495	e230	87	1910	410	370	963	359	72	265	64	39
24	374	e210	87	1610	474	327	1350	323	94	225	79	44
25	371	e175	87	2330	678	304	1330	292	89	190	76	40
26	334	e180	89	1440	628	368	991	254	87	270	56	34
27	118	e165	91	1300	521	353	864	241	82	251	45	39
28	1180	158	86	1650	436	333	703	206	75	210	96	26
29	1600	184	85	1150	408	332	653	182	59	169	77	92
30	823	151	92	968	---	315	715	182	65	181	58	90
31	635	---	85	597	---	285	---	155	---	251	57	---
TOTAL	7127.9	10041	3520	27800	8604	8433	21019	24767	3054	13478	6307	1211
MEAN	230	335	114	897	297	272	701	799	102	435	203	40.4
MAX	1600	624	219	7010	678	448	1980	2910	175	1970	890	92
MIN	9.9	151	85	60	125	156	189	155	55	34	45	22
CFSM	1.23	1.79	.61	4.80	1.59	1.45	3.75	4.27	.54	2.32	1.09	.22
IN.	1.42	2.00	.70	5.53	1.71	1.68	4.18	4.93	.61	2.68	1.25	.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1996, BY WATER YEAR (WY)

MEAN	143	227	256	254	257	522	675	322	160	105	81.0	92.0
MAX	721	760	1018	897	800	1627	1441	902	776	639	629	666
(WY)	1978	1973	1984	1996	1984	1986	1977	1983	1947	1976	1976	1938
MIN	18.2	21.4	38.4	42.0	26.8	113	231	71.5	19.4	7.08	3.94	8.19
(WY)	1974	1965	1965	1931	1980	1940	1966	1941	1965	1965	1965	1995

e Estimated

ST. LAWRENCE RIVER BASIN

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04280000 POULTNEY RIVER BELOW FAIR HAVEN, VT--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1929 - 1996	
ANNUAL TOTAL	65446.3		135361.9			
ANNUAL MEAN	179		370		258	
HIGHEST ANNUAL MEAN					527	1976
LOWEST ANNUAL MEAN					66.9	1965
HIGHEST DAILY MEAN	1600	Oct 29	7010	Jan 20	7010	Jan 20 1996
LOWEST DAILY MEAN	6.9	Sep 18	9.9	Oct 1	a 2.1	Aug 8 1965
ANNUAL SEVEN-DAY MINIMUM	7.2	Sep 14	23	Oct 9	3.0	Aug 13 1965
INSTANTANEOUS PEAK FLOW			10200	Jan 20	b 14800	Jul 20 1945
INSTANTANEOUS PEAK STAGE			20.91	Jan 20	c 24.36	Jul 20 1945
ANNUAL RUNOFF (CFSM)	.96		1.98		1.38	
ANNUAL RUNOFF (INCHES)	13.02		26.93		18.72	
10 PERCENT EXCEEDS	467		907		612	
50 PERCENT EXCEEDS	120		182		135	
90 PERCENT EXCEEDS	8.9		40		28	

a Also occurred on Sept. 13, 1977.

b From rating curve extended above 2,600 ft³/s as explained in 'EXTREMES FOR PERIOD OF RECORD' paragraph.

c From high-water mark in well.

ST. LAWRENCE RIVER BASIN

04280450 METTAWEE RIVER NEAR MIDDLE GRANVILLE, NY

LOCATION.--Lat 43°27'50", long 73°17'05", Washington County, Hydrologic Unit 02010001, on right bank 110 ft downstream from bridge on County Highway 21 and 2.2 mi north of Middle Granville.

DRAINAGE AREA.--167 mi².

PERIOD OF RECORD.--March 1990 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 320 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--6 years, 254 ft³/s, 20.65 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,470 ft³/s, Jan. 20, 1996, gage height, 10.69 ft, from rating curve extended above 2,500 ft³/s; minimum discharge, 8.9 ft³/s, Sept. 7, 1995, gage height, 2.81 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 31, 1984, reached a discharge of 5,380 ft³/s, on basis of slope-area measurement of peak flow 2.8 mi upstream at Middle Granville (drainage area 156 mi²).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 20	0130	a*8,470	*10.69	Apr. 24	0345	2,020	6.56
Jan. 25	0015	3,000	7.43	May 12	1845	2,620	7.12
Apr. 17	0215	2,490	7.00	July 16	0545	2,990	7.42

a From rating curve extended as explained above.

Minimum discharge, 12 ft³/s, Oct. 2, 3, 4, gage height, 2.86 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	287	184	e68	e400	e310	273	1400	177	53	421	47
2	14	312	185	e62	e300	e290	302	1060	158	45	283	46
3	13	422	167	e60	e200	e270	284	893	146	54	361	45
4	25	517	172	e56	e120	e240	260	1050	203	279	500	42
5	33	385	164	e54	e120	e220	247	1010	180	413	349	40
6	66	322	163	e56	e120	e210	235	901	148	207	270	38
7	65	301	152	e56	e130	e190	230	809	144	154	223	36
8	48	444	e140	e58	e140	e180	245	696	183	127	191	40
9	38	348	e130	e60	e150	e170	272	618	189	112	185	62
10	35	296	e130	e62	e150	e160	292	716	164	106	178	54
11	31	270	e120	e62	e130	e150	337	1000	147	89	156	47
12	29	759	e120	e62	e110	e150	459	2260	130	76	134	43
13	26	672	e110	e62	e110	e160	466	1810	122	306	126	39
14	25	578	e110	e60	e120	e210	757	1300	116	1010	109	46
15	54	681	e110	e58	e120	472	658	1030	105	1210	99	42
16	56	586	e110	e60	e130	467	1400	879	94	2120	91	39
17	43	498	e100	e66	e120	346	2040	825	88	1040	99	39
18	38	440	e100	e150	e110	317	1360	694	82	682	88	45
19	35	443	e100	e1900	e110	313	1120	789	78	553	79	43
20	34	408	e96	4070	e150	373	1050	637	79	567	72	38
21	41	367	e94	1440	e380	404	1030	557	77	438	80	35
22	457	331	e90	1050	528	401	894	499	78	337	72	35
23	207	299	e88	837	424	351	1370	432	74	281	70	61
24	144	272	e86	1460	666	311	1720	397	65	249	135	52
25	115	243	e84	1890	602	312	1210	343	68	232	90	50
26	98	231	e80	1060	463	462	1000	301	65	407	72	46
27	88	222	e80	1090	399	399	1210	268	57	319	66	42
28	823	220	e78	1230	424	339	898	239	55	246	62	42
29	727	217	e78	824	e350	320	843	221	50	210	60	91
30	440	188	e76	e640	---	302	918	211	52	190	55	72
31	332	---	e74	e520	---	282	---	197	---	291	51	---
TOTAL	4195	11559	3571	19183	7276	9081	23380	24042	3374	12403	4827	1397
MEAN	135	385	115	619	251	293	779	776	112	400	156	46.6
MAX	823	759	185	4070	666	472	2040	2260	203	2120	500	91
MIN	13	188	74	54	110	150	230	197	50	45	51	35
CFSM	.81	2.31	.69	3.71	1.50	1.75	4.67	4.64	.67	2.40	.93	.28
IN.	.93	2.57	.80	4.27	1.62	2.02	5.21	5.36	.75	2.76	1.08	.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1996, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	131	286	291	335	193	471	638	374	126	119	105	51.9
MAX	308	455	505	619	285	667	1163	776	175	400	220	94.4
(WY)	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MIN	63.6	79.2	115	179	116	243	238	135	66.4	24.5	35.3	16.8
(WY)	1993	1995	1996	1994	1992	1992	1995	1995	1991	1995	1991	1995

e Estimated

ST. LAWRENCE RIVER BASIN

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04280450 METTAWEE RIVER NEAR MIDDLE GRANVILLE, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1990 - 1996
ANNUAL TOTAL	64196.8	124288	
ANNUAL MEAN	176	340	254
HIGHEST ANNUAL MEAN			340 1996
LOWEST ANNUAL MEAN			155 1995
HIGHEST DAILY MEAN	970 Mar 9	4070 Jan 20	4410 Mar 30 1993
LOWEST DAILY MEAN	9.8 Sep 7	13 Oct 3	9.8 Sep 7 1995
ANNUAL SEVEN-DAY MINIMUM	13 Sep 2	33 Oct 1	13 Sep 2 1995
ANNUAL RUNOFF (CFSM)	1.05	2.03	1.52
ANNUAL RUNOFF (INCHES)	14.30	27.69	20.65
10 PERCENT EXCEEDS	455	895	579
50 PERCENT EXCEEDS	118	181	158
90 PERCENT EXCEEDS	18	46	37

ST. LAWRENCE RIVER BASIN

04294500 LAKE CHAMPLAIN AT BURLINGTON, VT

LOCATION.--Lat 44°28'52", long 73°13'27", Chittenden County, Hydrologic Unit 02010003, 50 ft south of Gulf Oil Co. dock at Burlington, 0.1 mi north of Burlington Water Department pumping station, and 0.5 mi north of railroad station.

PERIOD OF RECORD.--Gage heights: May 1907 to current year.
Water-quality records: Water year 1971.

REVISED RECORDS.--WSP 684: 1912-29 (datum correction). WSP 1207: 1938 (datum correction).

GAUGE.--Water-stage recorder. Datum of gage is 92.86 ft above sea level. Prior to July 20, 1937, nonrecording gage at site 0.7 mi south, and July 20, 1937, to Sept. 7, 1939, nonrecording gage at site 0.1 mi south, both at present datum.

REMARKS.--Estimated gage heights derived with little loss in accuracy.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 9.00 ft, Apr. 27, 1993; minimum observed, -0.25 ft, Dec. 4, 1908.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 8.04 ft, May 15, affected by seiche; minimum, 1.14 ft, Oct. 3, affected by seiche.

**GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.22	e3.29	e4.38	2.90	5.69	4.49	3.63	7.08	6.79	4.57	4.58	3.14
2	1.19	e3.53	4.13	2.85	5.64	4.43	3.61	7.20	6.65	4.53	4.61	3.10
3	1.20	e3.48	4.06	2.83	5.58	4.38	3.60	7.20	6.49	4.48	4.59	3.07
4	1.23	e3.51	4.03	2.81	5.51	4.33	3.58	7.23	6.39	4.53	4.56	3.02
5	1.24	e3.63	3.97	2.78	5.43	4.28	3.55	7.27	6.30	4.68	4.52	2.94
6	1.33	e3.65	3.88	2.76	5.36	4.25	3.52	7.25	6.19	4.77	4.47	2.91
7	1.62	e3.84	3.86	2.74	5.26	4.21	3.49	7.19	6.10	4.78	4.41	2.89
8	1.53	e3.51	3.82	2.71	5.17	4.18	3.48	7.12	6.08	4.75	4.34	2.80
9	1.53	e3.55	3.74	2.67	5.13	4.12	3.46	7.04	6.03	4.71	4.32	2.77
10	e1.54	e3.83	3.70	2.67	5.07	4.05	3.48	6.95	5.97	4.66	4.27	2.78
11	e1.57	e3.87	3.65	2.64	5.00	4.00	3.48	7.10	5.94	4.60	4.22	2.76
12	e1.58	e3.62	3.60	2.59	4.94	3.95	3.50	7.45	5.91	4.53	4.13	2.68
13	e1.58	e3.92	3.56	2.58	4.86	3.90	3.55	7.78	5.90	4.48	4.03	2.64
14	e1.58	e3.98	3.51	2.54	4.79	3.84	3.63	7.96	5.94	4.47	3.99	2.65
15	e1.74	e4.22	3.50	2.52	4.71	3.83	3.74	8.02	5.93	4.50	3.94	2.62
16	e1.72	e4.44	3.47	2.45	4.64	3.83	3.85	8.00	5.87	4.63	3.86	2.59
17	e1.75	e4.45	3.43	2.42	4.56	3.80	4.23	7.97	5.78	4.70	3.81	2.58
18	e2.03	e4.54	3.38	2.44	4.49	3.77	4.57	7.90	5.70	4.73	3.77	2.54
19	e1.73	e4.53	3.34	2.67	4.40	3.75	4.76	7.90	5.57	4.73	3.72	2.52
20	e1.89	e4.67	3.32	3.59	4.31	3.75	4.90	7.92	5.46	4.73	3.64	2.47
21	e1.88	e4.66	3.29	4.38	4.28	3.75	5.11	7.92	5.36	4.77	3.64	2.39
22	e2.18	e4.54	3.25	4.70	4.31	3.75	5.42	7.91	5.29	4.81	3.62	2.38
23	e2.44	e4.62	3.22	4.85	4.33	3.75	5.71	7.86	5.22	4.82	3.58	2.35
24	e2.70	e4.44	3.18	4.94	4.37	3.72	6.03	7.78	5.16	4.82	3.53	2.29
25	e2.63	e4.50	3.14	5.11	4.46	3.65	6.32	7.65	5.11	4.80	3.46	2.27
26	e2.71	e4.40	3.11	5.20	4.54	3.66	6.49	7.52	5.02	4.80	3.42	2.21
27	e2.90	e4.31	3.07	5.29	4.56	3.70	6.67	7.39	4.96	4.80	3.41	2.14
28	e2.80	e4.25	3.04	5.53	4.55	3.71	6.84	7.25	4.91	4.77	3.38	2.05
29	e2.98	e4.22	3.00	5.63	4.54	3.70	6.92	7.13	4.79	4.72	3.31	2.14
30	e3.13	e4.26	2.96	5.68	---	3.68	6.95	7.03	4.62	4.65	3.24	2.17
31	e3.24	---	2.93	5.71	---	3.65	---	6.91	---	4.58	3.18	---
MEAN	1.95	4.08	3.50	3.59	4.84	3.93	4.60	7.48	5.71	4.67	3.92	2.60
MAX	3.24	4.67	4.38	5.71	5.69	4.49	6.95	8.02	6.79	4.82	4.61	3.14
MIN	1.19	3.29	2.93	2.42	4.28	3.65	3.46	6.91	4.62	4.47	3.18	2.05

CAL YR 1995 MEAN 2.70 MAX 4.67 MIN 1.19
WTR YR 1996 MEAN 4.24 MAX 8.02 MIN 1.19

e Estimated

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LOCATION.--Lat 44°59'46", long 73°21'37", Clinton County, Hydrologic Unit 02010006, on left bank at outlet of Lake Champlain in Rouses Point, and 1.0 mi south of Fort Montgomery ruins.

DRAINAGE AREA. --8,277 mi²

PERIOD OF RECORD.--October 1863 to December 1870 (maximum and minimum monthly gage heights at St. Johns, Quebec, published in WSP 97) and March 1871 to current year (daily gage heights prior to October 1970, elevations thereafter: those for 1871-1907 published in WSP 894). Gage heights prior to October 1, 1925, published as "Richelieu River at Fort Montgomery, Rouses Point". Discharge records for January 1875 to September 1916 at "Chambly, Quebec," published in WSP 65, 82, 97, 129, 170, 206, 424, and 1307 have been found to be unreliable and should not be used. Daily discharge record for "Richelieu River at Fryers Rapids, Quebec," published in Water Survey of Canada annual reports.

GAGE.--Water-stage recorder. Datum of gage is sea level. March 1871 to May 1923, nonrecording gage located in Fort Montgomery and May 1923 to October 1938, nonrecording gage at present site. Prior to October 1970, at datum 93.00 ft higher.

REMARKS.--Area of lake surface about 490 mi². Total volume below 92.5 ft elevation, reported by Lake Champlain Studies Center, 902.2 bil ft³. Telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 101.88 ft, Apr. 25, 1993; minimum observed, 92.17 ft, Oct. 23, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation known since at least 1827, 102.1 ft, May 4, 1869, from marks at railroad bridge near present gage, according to data published on p. 428 of the Report of the Board of Engineers on Deep Waterways, 1900: U.S. 56th Cong., 2d sess. H. Doc. 149.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 101.03 ft., May 16; minimum, 93.95 ft., Oct. 3.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94.16	96.15	97.24	95.69	98.50	97.36	96.43	99.94	99.62	97.50	97.48	96.01
2	94.14	96.39	96.85	95.66	98.45	97.32	96.39	100.01	99.52	97.42	97.46	95.92
3	94.01	96.34	96.99	95.60	98.38	97.23	96.36	100.12	99.41	97.30	97.44	95.85
4	94.03	96.37	96.82	95.63	98.33	97.16	96.36	100.06	99.23	97.26	97.41	95.88
5	94.04	96.49	96.88	95.61	98.27	97.11	96.34	100.03	99.15	97.47	97.37	95.86
6	94.19	96.51	96.89	95.61	98.18	97.01	96.33	100.05	99.02	97.61	97.32	95.76
7	94.48	96.70	96.70	95.57	98.15	96.98	96.33	100.05	98.96	97.63	97.31	95.72
8	94.39	96.37	96.59	95.53	98.05	96.95	96.29	99.96	98.86	97.60	97.30	95.81
9	94.39	96.41	96.64	95.55	97.95	96.94	96.28	99.92	98.85	97.56	97.23	95.71
10	94.40	96.69	96.60	95.48	97.89	96.91	96.13	99.86	98.82	97.51	97.08	95.61
11	94.43	96.73	96.49	95.47	97.83	96.84	96.26	99.76	98.78	97.47	97.00	95.58
12	94.44	96.48	96.42	95.45	97.72	96.78	96.30	100.07	98.74	97.42	97.05	95.69
13	94.44	96.78	96.38	95.41	97.69	96.73	96.35	100.60	98.74	97.34	97.00	95.54
14	94.44	96.84	96.38	95.40	97.60	96.70	96.47	100.82	98.78	97.33	96.83	95.45
15	94.60	97.08	96.33	95.32	97.53	96.61	96.62	100.85	98.75	97.37	96.82	95.43
16	94.58	97.30	96.29	95.41	97.46	96.61	96.83	100.88	98.68	97.50	96.81	95.41
17	94.61	97.31	96.24	95.35	97.38	96.63	97.09	100.79	98.61	97.56	96.69	95.38
18	94.89	97.40	96.20	95.36	97.30	96.61	97.38	100.81	98.47	97.58	96.62	95.23
19	94.59	97.39	96.15	95.57	97.26	96.67	97.62	100.79	98.50	97.58	96.54	95.25
20	94.75	97.53	96.13	96.43	97.20	96.53	97.76	100.76	98.34	97.47	96.55	95.26
21	94.74	97.52	96.14	97.25	97.11	96.57	97.96	100.76	98.22	97.50	96.52	95.27
22	95.04	97.40	96.11	97.63	97.12	96.58	98.25	100.73	98.15	97.62	96.48	95.11
23	95.30	97.48	96.04	97.74	97.16	96.56	98.49	100.66	98.02	97.67	96.49	95.03
24	95.56	97.30	96.01	97.83	97.24	96.53	98.80	100.51	98.00	97.70	96.39	95.13
25	95.49	97.36	95.98	97.88	97.29	96.63	99.18	100.42	97.88	97.73	96.45	95.06
26	95.57	97.26	95.92	98.08	97.33	96.51	99.39	100.35	97.78	97.67	96.25	95.08
27	95.76	97.17	95.91	98.19	97.38	96.47	99.52	100.22	97.76	97.62	96.19	95.22
28	95.66	97.11	95.87	98.32	97.37	96.54	99.68	100.11	97.70	97.57	96.16	95.35
29	95.84	97.08	95.84	98.55	97.34	96.51	99.79	99.90	97.78	97.55	96.14	95.08
30	95.99	97.12	95.82	98.54	---	96.48	99.82	99.82	97.81	97.57	96.09	95.00
31	96.10	---	95.76	98.50	---	96.48	---	99.75				

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

LAKES AND RESERVOIRS IN STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

04260990 CRANBERRY LAKE AT CRANBERRY LAKE, NY--Lat 44°13'14", long 74°50'55", St. Lawrence County, Hydrologic Unit 04150302, on right wall at outlet structure, at village of Cranberry Lake. **DRAINAGE AREA**, 140 mi². **PERIOD OF RECORD**, April 1923 to current year. **GAGE**, nonrecording gage read daily at 1200 hours. Datum of gage is 1,469.75 ft above sea level.

Dam completed in 1867 and controlled storage for which records are available began in 1923. Usable capacity above elevation 1,475.25 ft is 2,530 mil ft³. Crest at spillway is at elevation, 1,486.43 ft. Length of spillway is 110 ft. Area of water surface at crest elevation is 10.9 mi². Records provided by Oswegatchie River-Cranberry Reservoir Commission.

EXTREMES FOR PERIOD OF RECORD--Maximum contents observed, 2,985 mil ft³, May 13-15, 1971, gage height, 18.5 ft; minimum observed, 70 mil ft³, Apr. 1-4, 1956, gage height, 6.0 ft.

EXTREMES FOR CURRENT YEAR--Maximum contents observed, 2,680 mil ft³, May 14-15, gage height, 17.5 ft; minimum observed, 1,412 mil ft³, Mar. 19-27, gage height, 12.8 ft.

04278000 LAKE GEORGE AT ROGERS ROCK, NY (see station for daily mean gage heights).

04294500 LAKE CHAMPLAIN AT BURLINGTON, VT (see station for daily mean gage heights).

04295000 RICHELIEU RIVER (LAKE CHAMPLAIN) AT ROUSES POINT, NY (see station for daily mean elevations).

MONTH-END GAGE HEIGHT AND CONTENTS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Gage height (feet) *	Contents (million ft ³)	Change in contents (equivalent in ft ³ /s)
04260990 Cranberry Lake			
Sept. 30	15.3	2,048	
Oct. 31	16.7	2,440	+146
Nov. 30	15.4	2,074	-141
Dec. 31	15.0	1,970	- 38.8
CAL YR 1995	-	-	+ 4.95
Jan. 31	16.4	* 2,352	+143
Feb. 29	14.5	1,840	-204
Mar. 31	13.0	1,460	-142
Apr. 30	17.2	2,590	+436
May 31	16.7	2,440	- 56.0
June 30	16.2	2,296	- 55.6
July 31	16.1	2,268	- 10.5
Aug. 31	15.4	2,074	- 72.4
Sept. 30	14.7	1,892	- 70.2
WTR YR 1996	-	-	- 4.93

* Gage heights at 2400 hours, by interpolation.

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are usually presented in two tables. The first is usually a table of discharge measurements at low-flow partial-record stations and the second is a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a third table. No discharge measurements were made at low-flow partial-record stations for the 1996 water year.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain, but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Maximum discharge at crest-stage partial-record stations

Station name and number	Location and drainage area	Period of record	Water year 1996 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
Housatonic River basin								
Stony Brook near Dover Plains, NY (01199477)	Lat 41°42'38", long 73°37'18", Dutchess County, Hydrologic Unit 01100005, on town road, 100 ft upstream from mouth, and 2.9 mi southwest of Dover Plains. Drainage area is 1.93 mi ² .	1976-96	1-19-96	6.32	440	4- 4-87	6.40	532
Hudson River basin								
Arbutus Pond Outlet near Newcomb, NY (01311992)	Lat 43°58'56", long 74°14'09", Essex County, Hydrologic Unit 02020001, on right bank at outlet of Arbutus Pond, 0.4 mi upstream from mouth at Fishing Brook, and 3.7 mi northwest of Newcomb. Drainage area is 1.22 mi ² .	1991-92†, 1993-96	4-23-96	1.98	21	4-17-94	2.13	26
Hudson River near Newcomb, NY (01312000)	Lat 43°58'00", long 74°07'55", Essex County, Hydrologic Unit 02020001, on right bank 30 ft downstream from bridge on State Highway 28N, 0.5 mi downstream from outlet of Harris Lake, 2.0 mi east of Newcomb, and 4.0 mi upstream from Wolf Creek. Drainage area is 192 mi ² .	1926-31, 1932-87†, 1988-96	10-22-95	8.59	5,310	1- 1-49	11.40	7,440
Schroon River at Riverbank, NY (01317000)	Lat 43°36'34", long 73°44'17", Warren County, Hydrologic Unit 02020001, on right bank 11.8 mi downstream from Schroon Lake, and 30 ft up- stream from highway bridge at Riverbank. Drainage area is 527 mi ² .	1908-25, 1926-70†, 1987-96	4-24-96	7.32	4,380	3-21-36	112.18	12,100
Steele Brook at Shushan, NY (01329154)	Lat 43°05'35", long 73°19'38", Washington County, Hydrologic Unit 02020003, at bridge on county road, 1.1 mi upstream from mouth, and 0.8 mi east of Shushan. Drainage area is 2.85 mi ² .	1979-96	1-19-96	6.56	149	1-19-96	6.56	149
Batten Kill at Battenville, NY (01329500)	Lat 43°06'05", long 73°25'55", Washington County, Hydrologic Unit 02020003, on left bank 1.2 mi upstream from Trout Brook, and 1.0 mi southwest of Battenville. Drainage area is 394 mi ² .	1923-68†, 1987-96	1-19-96 1-20-96	112.19 -	- a8,800	11- 4-27	117.7	21,300

† Operated as a continuous-record gaging station.

f From floodmark.

b Ice jam.

a About.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 1996 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
Hudson River basin--Continued								
Vly Brook near Morehouseville, NY (01342797)	Lat 43°23'43", long 74°50'00", Hamilton County, Hydrologic Unit 02020004, at culvert on State Highway 8, 0.6 mi up- stream from mouth, and 3.1 mi west of Morehouseville. Drainage area is 3.28 mi ² .	1993-96	10-21-95	af11.2	a320	10-21-95	af11.2	a320
West Canada Creek at Nobleboro, NY (01342800)	Lat 43°23'47", long 74°51'35", Herkimer County, Hydrologic Unit 02020004, at bridge on State Highway 8, 2.9 mi northeast of Wilmurt, in village of Nobleboro. Drainage area is 193 mi ² .	1958-66, 1967-68†, 1969-76, 1987-96	10-21-95	10.94	12,800	10-21-95 12-29-84	10.94 f13.93	12,800 q20,000
East Canada Creek at East Creek, NY (01348000)**	Lat 43°01'00", long 74°44'28", Herkimer County, Hydrologic Unit 02020004, on right bank 3.5 mi northwest of St. Johnsville, 1.2 mi upstream from mouth, at East Creek. Drainage area is 289 mi ² .	1946-95†, 1996	1-19-96	f8.32	17,000	10- 2-45	f9.0	d24,000
North Creek near Ephratah, NY (01348420)	Lat 43°00'28", long 74°33'54", Fulton County, Hydrologic Unit 02020004, at culvert on town road, 0.4 mi upstream from mouth, and 1.2 mi northwest of Ephratah. Drainage area is 6.52 mi ² .	1975-96	10-21-95	7.12	308	6-29-82	8.95	540
East Kill near Jewett Center, NY (01349700)**	Lat 42°14'57", long 74°18'11", Greene County, Hydrologic Unit 02020005, at bridge on Mill Hollow Road, 1.3 mi up- stream from mouth, and 1.2 mi northeast of Jewett Center. Drainage area is 35.6 mi ² .	1951, 1956, 1965-74, 1987, 1996	1-19-96	af12.5	a15,000	1-19-96	af12.5	a15,000
Batavia Kill at Hensonville, NY (01349850)**	Lat 42°22'17", long 74°12'55", Greene County, Hydrologic Unit 02020005, on right bank at downstream side of bridge on County Highway 40, 0.7 mi upstream from Silver Lake Outlet, and 1.8 mi upstream from Nauvo Stream, at Hensonville. Drainage area is 13.5 mi ² .	1972-93, 1996	1-19-96	f5.1	a2,000	8-13-55 9-12-60 4- 4-87	f7.8 f8.7 5.51	q5,000 q5,000 2,390
Normans Kill at Albany, NY (01359528)	Lat 42°38'00", long 73°48'22", Albany County, Hydrologic Unit 02020006, on left bank 0.35 mi upstream from bridge on Normans Kill Road at Normansville, and 0.40 mi upstream from Delaware Avenue bridge in Albany. Drainage area is 168 mi ² .	1980-83†, 1992-96	1-19-96	f11.6	8,460	3-22-80	13.41	11,600
Kinderhook Creek at Rossman, NY (01361000)	Lat 42°19'50", long 73°44'40", Columbia County, Hydrologic Unit 02020006, on right bank 1.0 mi upstream from Claverack Creek, 2.25 mi downstream from Stuyvesant Falls, at Rossman. Drainage area is 329 mi ² .	1906-14, 1929-68†, 1988-96	1-19-96	10.69	12,200	12-31-48	f19.8	29,800
Catskill Creek at Oak Hill, NY (01361500)	Lat 42°24'16", long 74°09'07", Greene County, Hydrologic Unit 02020006, on right bank 250 ft downstream from small tributary, and 150 ft down- stream from highway bridge in southernmost part of Oak Hill. Drainage area is 98.0 mi ² .	1929-77†, 1987-96	1-19-96	15.35	13,400	4- 4-87	f16.6	15,400

a About.

f From floodmark.

† Operated as a continuous-record gaging station.

q Peak outside period of record.

d Result of dam failure.

** Not an active site.

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 1996	maximum	Period of record			maximum
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
Hudson River basin--Continued								
Shingle Kill at Cairo, NY (01361900)**	Lat 42°18'22", long 74°00'13", Greene County, Hydrologic Unit 02020006, at bridge on town road, about 400 ft south of State Highway 23, and 0.8 mi upstream from mouth, at Cairo. Drainage area is 13.9 mi ² .	1953, 1955-56, 1960, 1965-87, 1996	1-19-96	a9.9	a3,000	3-21-80	10.80	3,600
Roeliff Jansen Kill near Hillsdale, NY (01362100)	Lat 42°09'14", long 73°31'14", Columbia County, Hydrologic Unit 02020006, at bridge on county highway off State Highway 22, 1.8 mi south of Hillsdale. Drainage area is 27.5 mi ² .	1958-60†, 1961-96	1-19-96	6.55	1,640	6-30-73	9.78	3,280
Bushnellsville Creek at Shandaken, NY (01362197)	Lat 42°07'25", long 74°24'02", Ulster County, Hydrologic Unit 02020006, on right bank along State Highway 42, 0.4 mi upstream from Esopus Creek, and 0.6 mi northwest of Shandaken. Drainage area is 11.4 mi ² .	1972-87, 1994-96	1-19-96	10.64	996	10-15-55 4- 4-87	f12.40 10.66	q1,830 1,000
Rutgers Creek at Gardnerville, NY (01368500)	Lat 41°20'40", long 74°29'10", Orange County, Hydrologic Unit 02020007, on right bank 8 mi southwest of Middletown, 2.2 mi upstream from mouth at highway bridge in Gardnerville. Drainage area is 59.7 mi ² .	1944-48, 1949-68†, 1987-90, 1994-96	1-20-96	6.35	1,850	8-19-55	f12.38	8,490
Fishkill Creek at Hopewell Junction, NY (01372800)	Lat 41°34'22", long 73°48'25", Dutchess County, Hydrologic Unit 02020008, on right bank 400 ft upstream from bridge on State Highway 376, 0.6 mi south of State Highway 82, at Hopewell Junction. Drainage area is 57.3 mi ² .	1958-75†, 1987-96	1-20-96 1-20-96	8.21 b11.71	1,780 -	12-21-73 1-20-96	9.19 b11.71	2,770 -
Peekskill Hollow Creek at Tompkins Corners, NY (01374250)	Lat 41°23'18", long 73°48'47", Putnam County, Hydrologic Unit 02030101, at bridge on Bryant Pond Road, 1.1 mi downstream from Wiccopee Brook, and 0.9 mi southwest of Tompkins Corners. Drainage area is 14.9 mi ² .	1975-96	1-20-96	4.11	733	8- 7-90	4.77	1,120
Passaic River basin								
Torne Brook at Ramapo, NY (01387410)	Lat 41°08'34", long 74°09'44", Rockland County, Hydrologic Unit 02030103, 0.3 mi up- stream from mouth, and 0.5 mi east of Ramapo. Drainage area is 2.60 mi ² .	1960-96	1-20-96	b7.48	a670	11- 8-77	11.02	1,520
Mahwah River near Suffern, NY (01387450)**	Lat 41°08'27", long 74°07'01", Rockland County, Hydrologic Unit 02030103, on left bank 13 ft upstream from bridge on U.S. Highway 202, 4.8 mi up- stream from mouth, and 2.5 mi northeast of Suffern. Drainage area is 12.3 mi ² .	1959-95†, 1996	1-19-96	6.87	1,120	11- 8-77	9.91	1,840
Delaware River basin								
Platte Kill at Dunraven, NY (01414000)**	Lat 42°07'59", long 74°41'45", Delaware County, Hydrologic Unit 02040102, on right bank at upstream side of bridge on State Highway 28, 0.6 mi up- stream from mouth, at Dunraven. Drainage area is 35.0 mi ² .	1942-62†, 1996	1-19-96	f11.2	5,690	1-19-96	f11.2	5,690

a About.

** Not an active site.

† Operated as a continuous-record gaging station.

f From floodmark.

q Peak outside period of record.

b Ice jam.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 1996 maximum			Period of record maximum		
			Date	Gage height (ft.)	Dis- charge (ft. ³ /s)	Date	Gage height (ft.)	Dis- charge (ft. ³ /s)
Delaware River basin--Continued								
Beaver Kill at Craigie Clair, NY (01418500)**	Lat 41°57'47", long 74°52'02", Sullivan County, Hydrologic Unit 02040102, on left bank 2.5 mi upstream from Spring Brook, 2.5 mi northeast of Rockland, and 100 ft down- stream from highway bridge at Craigie Clair. Drainage area is 81.9 mi ² .	1938-70†, 1971-74, 1996	1-19-96	f11.83	13,000	1-19-96	f11.83	13,000
Willowemoc Creek near Livingston Manor, NY (01419500)**	Lat 41°54'12", long 74°48'47", Sullivan County, Hydrologic Unit 02040102, on right bank 1.1 mi upstream from Little Beaver Kill, and 0.4 mi up- stream from State Highway 17 interchange 96 at Livingston Manor. Drainage area is 62.6 mi ² .	1938-70†, 1971-74, 1996	1-19-96	f7.2	6,420	7-28-69	11.03	15,700
West Branch Delaware River at Delhi, NY (01422000)**	Lat 42°16'18", long 74°55'06", Delaware County, Hydrologic Unit 02040101, on left bank 300 ft downstream from Steele Brook, 1.0 mi upstream from Little Delaware River, and 0.3 mi downstream from bridge on State Highway 28 in Delhi. Drainage area is 142 mi ² .	1937-70†, 1972-74, 1996	1-19-96	af9.8	a13,000	1-19-96	af9.8	a13,000
Little Delaware River near Delhi, NY (01422500)**	Lat 42°15'08", long 74°54'07", Delaware County, Hydrologic Unit 02040101, on left bank 15 ft downstream from highway bridge, 1.5 mi upstream from mouth, and 2.0 mi south of Delhi. Drainage area is 49.7 mi ² .	1938-70†, 1971-74, 1996	1-19-96	f8.51	a6,100	1-19-96	f8.51	a6,100
Trout Creek near Rockroyal, NY (01424000)**	Lat 42°10'40", long 75°16'45", Delaware County, Hydrologic Unit 02040101, on right bank 400 ft downstream from Bullock Brook, and 1.4 mi north of Rockroyal. Drainage area is 20.0 mi ² .	1953-67†, 1996	1-19-96	f10.06	a2,800	1-19-96	f10.06	a2,800
Callicoon Creek at Callicoon, NY (01427500)	Lat 41°45'39", long 75°02'55", Sullivan County, Hydrologic Unit 02040101, on right bank 0.9 mi upstream from mouth, 1.0 mi southwest of Hortonville, and 0.7 mi southeast of Callicoon. Drainage area is 110 mi ² .	1941-82†, 1983-96	1-19-96	8.42	11,200	8-17-47	9.68	16,000
East Branch Neversink River at Denning, NY (01434010)	Lat 41°57'30", long 74°28'26", Ulster County, Hydrologic Unit 02040104, on downstream side of bridge on private road at Strauss Estate, 0.9 mi upstream from Erts Brook, 0.4 mi downstream from Riley Brook, and 1.0 mi northeast of Denning. Drainage area is 13.3 mi ² .	1984-96	1-19-96	4.87	2,680	4- 4-87	f6.39	4,460
High Falls Brook at Frost Valley, NY (01434105)**	Lat 41°58'38", long 74°31'21", Ulster County, Hydrologic Unit 02040104, on left bank 0.1 mi upstream from county highway bridge, and 0.9 mi southwest of Frost Valley. Drainage area is 2.74 mi ² .	1991-95†, 1996	1-19-96	2.77	315	1-19-96	2.77	315

† Operated as a continuous-record gaging station.

f From floodmark.

** Not an active site.

a About.

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 1996 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
Streams tributary to Lake Ontario								
North Branch Grindstone Creek near Altmar, NY (042490673)	Lat 43°29'31", long 76°05'41", Oswego County, Hydrologic Unit 04140102, at culvert on Hong Kong Road, 4.1 mi up- stream from confluence with South Branch Grindstone Creek, and 4.1 mi southwest of Altmar. Drainage area is 11.2 mi ² .	1976-96	1-19-96	8.94	250	3-13-77	15.03	482
North Branch Salmon River at Redfield, NY (04249200)	Lat 43°32'32", long 75°48'51", Oswego County, Hydrologic Unit 04140102, at bridge on Harvester Mill Road, 0.7 mi northeast of Redfield. Drainage area is 82.5 mi ² .	1962-64, 1987-96	4-21-96	15.77	4,050	12-29-84 4-11-93	f19.15 16.66	q13,600 5,830
Sandy Creek near Adams, NY (04250750)	Lat 43°48'48", long 76°04'30", Jefferson County, Hydrologic Unit 04140102, on left bank 250 ft upstream from bridge on Liberty Street, 10.0 mi upstream from mouth, and 2.5 mi downstream from Adams. Drainage area is 128 mi ² .	1958-95†, 1996	1-19-96	f11.06	7,700	1-19-96	f11.06	7,700
Moose River at McKeever, NY (04254500)	Lat 43°36'36", long 75°06'35", Herkimer County, Hydrologic Unit 04150101, on left bank 1.9 mi downstream from con- fluence of Middle and South Branches, and 0.5 mi west of McKeever. Drainage area is 363 mi ² .	1901-22, 1923-70†, 1987-96	10-22-95 1-20-96	13.49 b14.57	12,400 -	6- 3-47 12-29-84	f17.45 f16.00	d18,700 q15,800
Tributary to Mill Creek Tributary near Lowville, NY (04256040)	Lat 43°45'43", long 75°31'13", Lewis County, Hydrologic Unit 04150101, at culvert on West Road, 0.85 mi above mouth, and 2.0 mi southwest of Lowville. Drainage area is 1.66 mi ² .	1976-86, 1993-96	1-19-96	12.14	228	3- 5-79	13.41	312
Deer River at Deer River, NY (04258700)	Lat 43°55'49", long 75°35'27", Lewis County, Hydrologic Unit 04150101, on left bank 2.0 mi upstream from mouth and 350 ft upstream from bridge on State Highway 26 at Deer River. Drainage area is 94.8 mi ² .	1957-68†, 1969-96	1-19-96	8.23	11,500	3- 6-79 12-29-84	b11.10 f10.63	- 17,200
St. Lawrence River basin								
Elm Creek near Hermon, NY (04265100)	Lat 44°26'15", long 75°12'49", St. Lawrence County, Hydro- logic Unit 04150304, at bridge 6.8 mi upstream from conflu- ence with Tanner Creek, and 2.7 mi southeast of Hermon. Drainage area is 32.6 mi ² .	1959-68†, 1969-96	1-19-96	8.82	1,180	4- 6-74	9.07	a1,270
Plum Brook near Grantville, NY (04268200)	Lat 44°52'46", long 74°54'54", St. Lawrence County, Hydro- logic Unit 04150305, on right bank 430 ft upstream from bridge at junction of Brouse and Grant Roads, 1.0 mi up- stream from mouth, 2.3 mi southwest of Massena city limits, and 1.4 mi north of Grantville. Drainage area is 43.9 mi ² .	1959-63†, 1964-96	1-19-96	5.66	812	3-30-63 3-11-92	6.94 b7.86	1,920 -
Duane Stream southeast of Duane Center, NY (04269856)	Lat 44°39'12", long 74°13'42", Franklin County, Hydrologic Unit 04150307, on left bank at culvert on County Highway 26, and 1.8 mi southeast of Duane Center. Drainage area is 1.80 mi ² .	1995-96	1-19-96	19.25	22	8- 6-95	20.35	33

f From floodmark.

q Peak outside period of record.

† Operated as a continuous-record gaging station.

d Dam failure.

b Ice jam.

a About.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 1996 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
St. Lawrence River basin--Continued								
Little Salmon River at Bombay, NY (04270200)**	Lat 44°56'24", long 74°33'26", Franklin County, Hydrologic Unit 04150307, on right bank 7.2 mi upstream from mouth, and 0.5 mi east of village of Bombay. Drainage area is 92.2 mi ² .	1958-95†, 1996	1-19-96	9.21	1,770	4- 4-74	12.90	3,250
Trout River at Trout River, NY (04270700)	Lat 44°59'23", long 74°17'56", Franklin County, Hydrologic Unit 04150307, on right bank at downstream side of bridge on county highway, 0.5 mi upstream from international boundary, 3.3 mi downstream from Little Trout River, and 0.2 mi east of State Highway 30, at Trout River. Drainage area is 107 mi ² .	1960-66†, 1967-96	7- 5-96	9.42	6,980	7- 5-96 3-10-92	9.42 b10.43	6,980 -
West Branch Ausable River near Lake Placid, NY (04274000)	Lat 44°18'40", long 73°55'00", Essex County, Hydrologic Unit 02010004, on right bank 4 mi downstream from Lake Placid outlet, 150 ft upstream from Monument Falls, and 4 mi northeast of Lake Placid. Drainage area is 116 mi ² .	1917, 1920-27, 1928-68†, 1983-96	1-19-96	10.17	6,910	9-22-38	12.20	10,800
East Branch Ausable River at Au Sable Forks, NY (04275000)	Lat 44°26'20", long 73°40'55", Essex County, Hydrologic Unit 02010004, on left bank 0.5 mi upstream from confluence with West Branch, and 700 ft up- stream from bridge on Burt Street in Au Sable Forks. Drainage area is 198 mi ² .	1925-95†, 1996	1-19-96	b11.93	a14,000	9-22-38 2-23-90	12.91 b13.96	20,100 -

† Operated as a continuous-record gaging station.

** Not an active site.

b Ice jam.

a About.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Discharge measurements made at miscellaneous sites during water year 1996

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Hudson River basin						
01349810 West Kill	Schoharie Creek	Lat 42°13'48", long 74°23'34", Greene County, Hydrologic Unit 02020005, 0.2 mi upstream from Beech Ridge Brook, 0.3 mi upstream from bridge on State Highway 42, and 1.4 mi north of West Kill.	27.0	1953, 1956, 1987	1-19-96	p6,500
01349950 Batavia Kill	Schoharie Creek	Lat 42°18'30", long 74°23'25", Greene County, Hydrologic Unit 02020005, 200 ft southwest of State Highway 23 at Red Falls, and 2.2 mi southeast of Prattsville.	68.6		1-19-96	p16,400
01359063 Wynants Kill	Hudson River	Lat 42°38'02", long 73°32'58", Rensselaer County, Hydrologic Unit 02020006, in back of American Legion Hall south of Route 43, 0.2 mi east of Averill Park.		1995	9- 2-96	*0.52
01359074 Wynants Kill	Hudson River	Lat 42°37'59", long 73°34'28", Rensselaer County, Hydrologic Unit 02020006, just downstream from tributary flowing west, 0.1 mi east of Springer Road, and 1.0 mi west of Averill Park.	15.6	1962, 1995	10-20-95 9- 2-96	*4.88 *1.43
01359078 Wynants Kill Tributary No. 3	Hudson River	Lat 42°38'40", long 73°36'08", Rensselaer County, Hydrologic Unit 02020006, at bridge on town road, 0.1 mi upstream from mouth, at West Sand Lake.	1.18	1962, 1967, 1995	9- 2-96	*1.15
01359080 Wynants Kill	Hudson River	Lat 42°38'48", long 73°36'33", Rensselaer County, Hydrologic Unit 02020006, at bridge at Brookside Park Road, at West Sand Lake.	18.7	1962, 1965, 1967, 1995	10-20-95 9- 2-96	*7.34 *4.75
01359750 Moordener Kill	Hudson River	Lat 42°32'02", long 73°44'15", Rensselaer County, Hydrologic Unit 02020006, 800 ft downstream from bridge on State Highway 150, 0.2 mi east of village of Castleton-on- Hudson, 0.5 mi downstream from un- named tributary, and 1.2 mi up- stream from mouth.	32.6	1958-94†, 1995	9- 2-96	*8.22
Delaware River basin						
01413290 Dry Brook	East Branch Delaware River	Lat 42°07'26", long 74°34'15", Delaware County, Hydrologic Unit 02040102, at bridge on County Road 39, 4.6 mi upstream from mouth, and 2.9 mi southeast of Arkville.	28.7		1-19-96	p4,840
01413400 Bush Kill	Dry Brook	Lat 42°08'59", long 74°36'20", Delaware County, Hydrologic Unit 02040102, at railroad bridge 200 ft south of State Highway 28, 0.5 mi upstream from mouth, and 0.8 mi east of Arkville.	47.0	1951	1-19-96	p7,600
0141385004 East Branch Delaware River	Delaware River	Lat 42°05'18", long 74°40'50", Delaware County, Hydrologic Unit 02040102, at bridge on State High- way 28 and 30, 2.4 mi southwest of Margaretville.	173		1-19-96	p27,100
01414900 Tremper Kill	East Branch Delaware River (Pepacton Res.)	Lat 42°07'34", long 74°48'43", Delaware County, Hydrologic Unit 02040102, at bridge on County Route 1, 1.0 mi upstream from Pepacton Reservoir, and 4.5 mi south of Andes.	30.0		1-19-96	p4,480
01421200 Cadosia Creek	East Branch Delaware River	Lat 41°58'03", long 75°15'51", Delaware County, Hydrologic Unit 02040102, at bridge on State Highway 236, 0.3 mi upstream from mouth, at Cadosia.	17.9	1949-50, 1955, 1957-71, 1973-95	6- 5-96 6-11-96 6-26-96 9- 4-96	*7.37 33.4 11.5 *4.30

p Peak discharge.

* Base flow.

† Operated as a continuous-record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1996--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft. ³ /s)
Delaware River basin--Continued						
01423010 West Branch Delaware River	Delaware River	Lat 42°07'43", long 75°09'41", Delaware County, Hydrologic Unit 02040101, at bridge on State High- way 10, 36.2 mi upstream from mouth, in Beerston.	352		1-19-96	p26,200
01426000 Oquaga Creek	West Branch Delaware River	Lat 42°03'31", long 75°25'42", Broome County, Hydrologic Unit 02040101, on left bank, 150 ft down- stream from Bone Creek, 0.3 mi up- stream from mouth, 0.1 mi upstream from Mill Street bridge, in Deposit.	67.6	1941-73†, 1975-76, 1979-95	6- 5-96 6-11-96 6-27-96 9- 4-96	*23.4 119 33.0 *7.10
01428000 Tenmile River	Delaware River	Lat 41°33'51", long 75°00'56", Sullivan County, Hydrologic Unit 02040101, on left bank, 0.5 mi downstream from East Branch Tenmile River, 0.8 mi upstream from mouth, and 0.6 mi northeast of Tusten.	45.6	1946-73†, 1978-95	6- 7-96 6-12-96 9- 5-96	18.8 62.5 *10.7
01434070 South Shelter Creek	Shelter Creek	Lat 41°58'20", long 74°30'10", Ulster County, Hydrologic Unit 02040104, 0.35 mi upstream from mouth, 1.1 mi upstream from mouth of Shelter Creek, and 1.1 mi southwest of Frost Valley.		1992-95	10-11-95 10-25-95 4-24-96 7-17-96	*0.10 *.58 1.04 1.51
0143407345 West Moor Brook	North Shelter Creek	Lat 41°58'22", long 74°30'31", Ulster County, Hydrologic Unit 02040104, at mouth, 0.09 mi up- stream from mouth of North Shelter Creek, and 1.0 mi south of Frost Valley. (Formerly published as Butch Brook.)		1992	11- 8-95 9-11-96	0.32 *.064
0143407405 North Shelter Creek	Shelter Creek	Lat 41°58'19", long 74°30'34", Ulster County, Hydrologic Unit 02040104, at mouth, 0.82 mi up- stream from mouth of Shelter Creek, and 1.0 mi south of Frost Valley.		1993-95	10-11-95 12- 5-95 2-21-96 3-25-96 5-22-96 6-18-96 7-17-96 8-15-96	*0.22 *.45 2.34 *1.07 .76 .56 1.64 *.40
01434110 Clear Creek	West Branch Neversink River	Lat 41°57'58", long 74°31'10", Ulster County, Hydrologic Unit 02040104, 0.71 mi upstream from mouth, 1.5 mi southwest of Frost Valley. (Formerly published as Pete Brook.)		1993-95	10-11-95 10-25-95 11-21-95 12- 5-95 2-22-96 3-25-96 4-11-96 4-23-96 5- 7-96 5-22-96 6- 5-96 6-19-96 7- 1-96 7-16-96 7-31-96 8-28-96 9-25-96	*0.17 *.56 .34 *.093 .88 *.26 *.21 *.47 .30 .32 .064 .10 .15 1.72 *.16 *.013 *.064
01434112 Clear Creek	West Branch Neversink River	Lat 41°58'10", long 74°31'17", Ulster County, Hydrologic Unit 02040104, 0.45 mi upstream from mouth, 1.3 mi southwest of Frost Valley. (Formerly published as Pete Brook.)		1992-95	8-23-95 9- 6-95 9-19-95 10-11-95 10-25-95 11-21-95 12- 5-95 1-24-96 2-22-96 3-25-96 4-11-96 5- 7-96 5-22-96 6- 5-96 6-19-96 7- 1-96 7-16-96 7-31-96 8-28-96 9-25-96	*0.044 *.018 .033 *.20 *.89 .87 *.35 3.19 .87 *.42 *.35 .67 .40 .14 .29 .20 2.51 *.44 *.098 *.21

p Peak discharge.

† Operated as a continuous-record gaging station.

* Base flow.

Discharge measurements made at miscellaneous sites during water year 1996--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Delaware River basin--Continued						
01438000 Neversink River	Delaware River	Lat 41°21'40", long 74°41'07", Orange County, Hydrologic Unit 02040104, at Tristates Bridge on East Main Street (U.S. Highway 6), 0.1 mi upstream from Clove Brook, and 0.6 mi upstream from mouth, in Port Jervis.	336	1902-03, 1943, 1945, 1960-62, 1965-95	6- 7-96 8-15-96	262 197
415527074321901 unnamed tributary	East Branch Neversink River	Lat 41°55'27", long 74°32'19", Ulster County, Hydrologic Unit 02040104, 0.1 mi upstream from mouth of left-bank tributary, about 1.8 mi northeast of Claryville.			5-20-93 7-15-93 7-13-94 10-20-94	0.70 .15 .30 .036
415607074315701 unnamed tributary	East Branch Neversink River	Lat 41°56'07", long 74°31'57", Ulster County, Hydrologic Unit 02040104, 153 ft upstream from mouth of right-bank tributary, about 0.8 mi southwest of Ladleton.			5-20-93	1.04
415613074302201 unnamed tributary	East Branch Neversink River	Lat 41°56'13", long 74°30'22", Ulster County, Hydrologic Unit 02040104, 156 ft upstream from mouth of left-bank tributary, about 1.3 mi downstream from Erts Brook, at Ladleton.			5-20-93 7-15-93 7-13-94 10-20-94	4.04 .40 .49 .72
415619074301501 unnamed tributary	East Branch Neversink River	Lat 41°56'19", long 74°30'15", Ulster County, Hydrologic Unit 02040104, 92 ft upstream from mouth of left-bank tributary, about 1.25 mi downstream from Erts Brook, at Ladleton.			5-20-93 7-15-93 7-13-94 10-20-94	3.76 .19 .31 .086
415620074303001 unnamed tributary	East Branch Neversink River	Lat 41°56'20", long 74°30'30", Ulster County, Hydrologic Unit 02040104, 441 ft upstream from mouth of right-bank tributary, at Ladleton.			11-23-92 12-23-92 2- 3-93 4-20-93 6-21-93 8-16-93 10-21-93	0.74 .19 *.19 .72 *.10 *.049 *.061
415627074303401 unnamed tributary	East Branch Neversink River	Lat 41°56'27", long 74°30'34", Ulster County, Hydrologic Unit 02040104, 0.2 mi upstream from mouth of right-bank tributary, at Ladleton.			11-23-92 12-23-92 2- 3-93 4-20-93 6-21-93 10-21-93	0.22 .098 *.042 .48 *.030 *.013
415630074311101 unnamed tributary	East Branch Neversink River	Lat 41°56'30", long 74°31'11", Ulster County, Hydrologic Unit 02040104, 0.3 mi upstream from mouth of right-bank tributary, at Ladleton.			5-20-93 7-15-93 7-13-94 10-20-94	2.74 .16 .29 .50
415638074295101 unnamed tributary	East Branch Neversink River	Lat 41°56'38", long 74°29'51", Ulster County, Hydrologic Unit 02040104, at mouth of left-bank tributary, 0.7 mi downstream from Erts Brook, at Denning.			8-13-92	*26.0
415652074342301 unnamed tributary	West Branch Neversink River	Lat 41°56'52", long 74°34'23", Ulster County, Hydrologic Unit 02040104, 284 ft upstream from mouth of right-bank tributary, about 0.25 mi downstream from Fall Brook, and 2.0 mi north of Claryville.			5-20-93 7-16-93 7-13-94 10-20-94	0.79 *.55 .77 .82
415657074345201 unnamed tributary	West Branch Neversink River	Lat 41°56'57", long 74°34'52", Ulster County, Hydrologic Unit 02040104, 0.56 mi upstream from mouth of right-bank tributary, about 0.25 mi downstream from Fall Brook, and 2.0 mi north of Claryville.			5-20-93	0.40
415659074293501 unnamed tributary	unnamed tributary to East Branch Neversink River	Lat 41°56'59", long 74°29'35", Ulster County, Hydrologic Unit 02040104, 300 ft upstream from mouth of left-bank tributary to right-bank tributary, about 6.0 mi east of Claryville, at Denning.			5-26-94 6-13-94 8-25-94	0.18 .033 .10

* Base flow.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1996--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Delaware River basin--Continued						
415702074293701 unnamed tributary	East Branch Neversink River	Lat 41°57'02", long 74°29'37", Ulster County, Hydrologic Unit 02040104, 0.5 mi upstream from mouth of right-bank tributary, about 0.75 mi downstream from Erts Brook, at Denning.			12-23-92 5-20-93 7-15-93 7-13-94 10-20-94	1.07 .65 .083 .13 1.06
415745074300901 unnamed tributary	East Branch Neversink River	Lat 41°57'45", long 74°30'09", Ulster County, Hydrologic Unit 02040104, 1.6 mi upstream from mouth of right-bank tributary, about 0.75 mi downstream from Erts Brook, at Denning.			12-23-92 5-20-93 7-15-93	0.56 .53 .017
415703074293401 unnamed tributary	private pond	Lat 41°57'03", long 74°29'34", Ulster County, Hydrologic Unit 02040104, 92 ft upstream from mouth of northwest tributary, at Denning.			7-13-93 5-26-94 6-13-94 7-21-94 8-25-94	0.053 .14 .070 .054 .095
415703074340601 Fall Brook	West Branch Neversink River	Lat 41°57'03", long 74°34'06", Ulster County, Hydrologic Unit 02040104, 0.1 mi upstream from mouth, and 2.25 mi north of Claryville.			5-20-93 7-16-93 7-13-94 10-20-94	12.2 3.13 4.98 4.84
415900074334801 Fall Brook	West Branch Neversink River	Lat 41°59'00", long 74°33'48", Ulster County, Hydrologic Unit 02040104, 2.6 mi upstream from mouth, and 2.5 mi west of Frost Valley.			5-20-93 7-16-93	0.45 .81
415704074293201 unnamed tributary	private pond	Lat 41°57'04", long 74°29'32", Ulster County, Hydrologic Unit 02040104, 101 ft upstream from mouth of northeast tributary, at Denning.			7-13-93 5-26-94 6-13-94 7-21-94 8-25-94	0.031 .17 .087 .027 .12
415716074291701 Erts Brook	West Branch Neversink River	Lat 41°57'16", long 74°29'17", Ulster County, Hydrologic Unit 02040104, 0.2 mi upstream from mouth, at Denning.			5-20-93 7-15-93 7-13-94 10-20-94	3.35 .15 .41 .82
415737074291801 Erts Brook	West Branch Neversink River	Lat 41°57'37", long 74°29'18", Ulster County, Hydrologic Unit 02040104, 0.6 mi upstream from mouth, at Denning.			5-20-93 7-15-93	2.68 .13
415737074280001 Riley Brook	East Branch Neversink River	Lat 41°57'37", long 74°28'00", Ulster County, Hydrologic Unit 02040104, 398 ft upstream from mouth, near Denning.			5-20-93 7-15-93	2.76 .14
415747074270501 Tray Mill Brook	East Branch Neversink River	Lat 41°57'47", long 74°27'05", Ulster County, Hydrologic Unit 02040104, 158 ft upstream from mouth, near Shandaken.			7-13-94 10-19-94	0.69 .78
415757074272001 Flat Brook	East Branch Neversink River	Lat 41°57'57", long 74°27'20", Ulster County, Hydrologic Unit 02040104, 0.5 mi upstream from mouth, and 2.0 mi northeast of Denning.			10-26-92 5-20-93	0.012 2.96
415759074271401 Flat Brook	East Branch Neversink River	Lat 41°57'59", long 74°27'14", Ulster County, Hydrologic Unit 02040104, 0.6 mi upstream from mouth, and 2.0 mi northeast of Denning.			8- 3-92 8-31-92 10- 2-92 7-15-93 7-13-94 10-19-94	1.11 2.05 *1.28 .47 *1.09 .82
415805074270801 Flat Brook	East Branch Neversink River	Lat 41°58'05", long 74°27'08", Ulster County, Hydrologic Unit 02040104, 0.8 mi upstream from mouth, and 2.25 mi northeast of Denning.			10-26-92	0.71
415810074270801 Flat Brook	East Branch Neversink River	Lat 41°58'10", long 74°27'08", Ulster County, Hydrologic Unit 02040104, 0.9 mi upstream from mouth, and 2.25 mi northeast of Denning.			8- 3-92 8-31-92 10- 2-92 10-26-92 5-20-93 7-15-93	0.86 1.35 * .58 .74 .036 .25

* Base flow.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Discharge measurements made at miscellaneous sites during water year 1996--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Delaware River basin--Continued						
415806074314501	Neversink River	Lat 41°58'06", long 74°31'45", Ulster County, Hydrologic Unit 02040104, 0.7 mi downstream from High Falls Brook, near Frost Valley.			4-14-92	68.4
West Branch					4-15-92(1000)	62.9
Neversink					4-15-92(1500)	65.7
River					4-16-92	*62.2
					7-28-92	24.6
					7-29-92	21.0
					9-29-92	26.0
					9-30-92	25.4
					10- 1-92	*23.3
415810074313901	West Branch unnamed tributary	Lat 41°58'10", long 74°31'39", Ulster County, Hydrologic Unit 02040104, 105 ft upstream from mouth of left-bank tributary, about 0.5 mi downstream from High Falls Brook, and 1.5 mi southwest of Frost Valley.			6- 2-92	0.12
415812074313901	West Branch unnamed tributary	Lat 41°58'12", long 74°31'39", Ulster County, Hydrologic Unit 02040104, 84 ft upstream from mouth of left-bank tributary, about 0.5 mi downstream from High Falls Brook, and 1.5 mi southwest of Frost Valley.			4-14-92	2.78
					4-15-92	2.94
					4-16-92	*2.15
					6- 3-92	3.92
					7-28-92	1.28
					7-29-92	1.73
					9-29-92	2.02
					9-30-92	1.97
415818074262801	East Branch unnamed tributary	Lat 41°58'18", long 74°26'28", Ulster County, Hydrologic Unit 02040104, 543 ft upstream from mouth of right-bank tributary, about 0.75 mi upstream from Tray Mill Brook, near Shandaken.			12-22-92	0.14
					3-30-93	3.96
					4-25-93	.60
					5- 9-93	.22
					12-15-93	.32
					6-10-94	*.028
415821074314101	West Branch unnamed tributary	Lat 41°58'21", long 74°31'41", Ulster County, Hydrologic Unit 02040104, 130 ft upstream from mouth of right-bank tributary, about 0.4 mi downstream from High Falls Brook, near Frost Valley.			4-15-92	0.13
					4-16-92	*.11
415825074255201	Neversink River	Lat 41°58'25", long 74°25'52", Ulster County, Hydrologic Unit 02040104, 1.5 mi upstream from Tray Mill Brook, near Shandaken.			7- 7-91	1.56
East Branch					11- 7-91	9.22
Neversink					5- 6-92	29.3
River					7-15-92	8.81
415827074253701	Neversink River	Lat 41°58'27", long 74°25'37", Ulster County, Hydrologic Unit 02040104, 765 ft upstream from Deer Shanty Brook, near Shandaken.			7- 7-94	*6.33
East Branch					10-19-94	6.43
Neversink						
River						
415827074254001	Neversink River	Lat 41°58'27", long 74°25'40", Ulster County, Hydrologic Unit 02040104, 525 ft upstream from Deer Shanty Brook, near Shandaken.			5- 6-92	6.39
East Branch						
Neversink						
River						
415827074312201	Neversink River	Lat 41°58'27", long 74°31'22", Ulster County, Hydrologic Unit 02040104, 213 ft downstream from High Falls Brook, near Frost Valley.			4-14-92	63.7
West Branch					4-15-92	60.4
Neversink					4-16-92	*54.5
River					6- 2-92	111
					7-28-92	19.7
					9-29-92	21.4
					9-30-92	21.4
					10- 1-92	*22.2
					8- 4-94	32.4
415828074254401	East Branch unnamed tributary	Lat 41°58'28", long 74°25'44", Ulster County, Hydrologic Unit 02040104, 68 ft upstream from mouth of right-bank tributary, just up- stream from Deer Shanty Brook, near Shandaken.			7- 7-91	0.48
					11- 7-91	1.13
					5- 6-92	1.86
					7-16-92	1.42
					5-26-93	1.14
					10- 7-93	.46
415828074254601	Neversink River	Lat 41°58'28", long 74°25'46", Ulster County, Hydrologic Unit 02040104, 60 ft upstream from Deer Shanty Brook, near Shandaken.			7-15-92	2.68
East Branch					5-26-93	4.48
Neversink					10- 7-93	1.70
River						
415828074254701	Neversink River	Lat 41°58'28", long 74°25'47", Ulster County, Hydrologic Unit 02040104, 99 ft downstream from Deer Shanty Brook, near Shandaken.			7-30-91	0.78
East Branch					11- 7-91	3.63
Neversink					5- 6-92	10.9
River					7-15-92	3.09

* Base flow.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1996--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Delaware River basin--Continued						
415828074313301 unnamed tributary	West Branch Neversink River	Lat 41°58'28", long 74°31'33", Ulster County, Hydrologic Unit 02040104, at culvert 5 ft upstream from mouth of right-bank tributary, about 0.2 mi downstream from High Falls Brook, near Frost Valley.			4-14-92 4-15-92	0.43 .29
415831074254301 Deer Shanty Brook	East Branch Neversink River	Lat 41°58'31", long 74°25'43", Ulster County, Hydrologic Unit 02040104, 431 ft upstream from mouth, near Shandaken.			7-30-91 11- 7-91 5- 6-92 7-16-92 5-26-93 10- 7-93	*0.26 1.81 6.66 6.07 3.10 .84
415838074254001 Deer Shanty Brook	East Branch Neversink River	Lat 41°58'38", long 74°25'40", Ulster County, Hydrologic Unit 02040104, 0.2 mi upstream from mouth, near Shandaken.			5-20-93 7-15-93 7-13-94 10-19-94	7.67 .76 2.56 3.42
415905074251801 Deer Shanty Brook	East Branch Neversink River	Lat 41°59'05", long 74°25'18", Ulster County, Hydrologic Unit 02040104, 0.85 mi upstream from mouth, near Shandaken.			5-20-93 7-15-93	3.31 .48
415845074305301 West Branch Neversink River	Neversink River	Lat 41°58'45", long 74°30'53", Ulster County, Hydrologic Unit 02040104, about 0.9 mi downstream from Biscuit Brook, at Frost Valley.			5-25-94 6-16-94 7-25-94 8-24-94 10-12-94	19.8 21.9 26.4 57.3 16.3
415845074310001 unnamed tributary	West Branch Neversink River	Lat 41°58'45", long 74°31'00", Ulster County, Hydrologic Unit 02040104, 120 ft upstream from mouth of right-bank tributary, about 0.5 mi upstream from High Falls Brook, at Frost Valley.			7-13-93 5-25-94 6-16-94 7-25-94 8-24-94 10-12-94	3.01 5.13 4.60 4.89 6.11 2.62
415858074305401 unnamed tributary	West Branch Neversink River	Lat 41°58'58", long 74°30'54", Ulster County, Hydrologic Unit 02040104, 122 ft upstream from mouth of right-bank tributary, about 0.5 mi upstream from High Falls Brook, at Frost Valley.			7-25-94 8-24-94 10-12-94	0.016 .10 .012
415906074303001 unnamed tributary	West Branch Neversink River	Lat 41°59'06", long 74°30'30", Ulster County, Hydrologic Unit 02040104, about 0.75 mi upstream from mouth of right-bank tributary, about 0.5 mi upstream from High Falls Brook, at Frost Valley.			7-13-93 5-25-94 6-16-94 7-25-94 8-24-94	2.02 3.44 2.80 2.77 2.85
415900074305501 unnamed tributary	unnamed tributary to West Branch Neversink River	Lat 41°59'00", long 74°30'55", Ulster County, Hydrologic Unit 02040104, 117 ft upstream from mouth of right-bank tributary to right-bank tributary, at Frost Valley.			7-25-94 8-24-94 10-12-94	0.10 .18 .14
415904074305101 unnamed tributary	unnamed tributary to West Branch Neversink River	Lat 41°59'04", long 74°30'51", Ulster County, Hydrologic Unit 02040104, 193 ft upstream from mouth of right-bank tributary to right-bank tributary, northwest of unnamed lake at Frost Valley.			7-25-94 8-24-94 10-12-94	0.053 .21 .076
415906074252001 unnamed tributary	Deer Shanty Brook	Lat 41°59'06", long 74°25'20", Ulster County, Hydrologic Unit 02040104, 400 ft upstream from mouth of right-bank tributary, about 0.75 mi upstream from mouth of Deer Shanty Brook, near Shandaken.			5-20-93 7-15-93	2.01 *.28
415907074304201 unnamed tributary	unnamed tributary to West Branch Neversink River	Lat 41°59'07", long 74°30'42", Ulster County, Hydrologic Unit 02040104, 193 ft upstream from mouth of right-bank tributary to right-bank tributary, north of unnamed lake at Frost Valley.			6-16-94 7-25-94 8-24-94 10-12-94	0.031 .058 .11 .050

* Base flow.

Discharge measurements made at miscellaneous sites during water year 1996--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Delaware River basin--Continued						
415909074302901 unnamed tributary	unnamed tributary to West Branch Neversink River	Lat 41°59'09", long 74°30'29", Ulster County, Hydrologic Unit 02040104, 261 ft upstream from mouth of right-bank tributary to right-bank tributary, northeast of unnamed lake at Frost Valley.		6-16-94 7-25-94 8-24-94 10-12-94	0.052 .081 .079 .11	
415910074303501 unnamed tributary	unnamed tributary to West Branch Neversink River	Lat 41°59'10", long 74°30'35", Ulster County, Hydrologic Unit 02040104, 160 ft upstream from mouth of right-bank tributary to right-bank tributary, north of unnamed lake at Frost Valley.		6-16-94 7-25-94 8-24-94 10-12-94	0.043 .020 .030 .058	
415934074301301 Pigeon Brook	Biscuit Brook	Lat 41°59'34", long 74°30'13", Ulster County, Hydrologic Unit 02040104, 190 ft upstream from mouth, at Frost Valley.		7-13-94 10-20-94	2.14 3.19	
415937074300901 Biscuit Brook	West Branch Neversink River	Lat 41°59'37", long 74°30'09", Ulster County, Hydrologic Unit 02040104, about 0.5 mi upstream from mouth, 423 ft upstream from Pigeon Brook, at Frost Valley.		7-13-94 10-20-94	*3.20 4.14	
420015074291901 Biscuit Brook	West Branch Neversink River	Lat 42°00'15", long 74°29'19", Ulster County, Hydrologic Unit 02040104, 1.6 mi upstream from mouth, 1.2 mi upstream from Pigeon Brook, near Frost Valley.		4-23-93	0.28	
420035074290501 Biscuit Brook	West Branch Neversink River	Lat 42°00'35", long 74°29'05", Ulster County, Hydrologic Unit 02040104, 2.0 mi upstream from mouth, 1.6 mi upstream from Pigeon Brook, near Frost Valley.		8-25-93 12- 1-93	0.56 11.8	
420135074285101 Biscuit Brook	West Branch Neversink River	Lat 42°01'35", long 74°28'51", Ulster County, Hydrologic Unit 02040104, 3.3 mi upstream from mouth, 2.9 mi upstream from Pigeon Brook, near Frost Valley.		9-15-92 12- 2-92 4-23-93 8-25-93 6-13-94	*0.86 1.25 4.38 *.11 *.47	
420141074284801 Biscuit Brook	West Branch Neversink River	Lat 42°01'41", long 74°28'48", Ulster County, Hydrologic Unit 02040104, 3.4 mi upstream from mouth, 3.0 mi upstream from Pigeon Brook, near Frost Valley.		9-15-92 12- 2-92 4-23-93 8-25-93 6-13-94	*0.26 .70 2.33 *.008 *.26	
420005074265801 unnamed tributary	West Branch Neversink River	Lat 42°00'05", long 74°26'58", Ulster County, Hydrologic Unit 02040104, 0.1 mi upstream from mouth of right-bank tributary, about 2.9 mi upstream from Biscuit Brook, near Shandaken.		6-17-94 7-20-94 10-13-94	0.23 *.071 *.095	
420006074265201 unnamed tributary	West Branch Neversink River	Lat 42°00'06", long 74°26'52", Ulster County, Hydrologic Unit 02040104, 0.2 mi upstream from mouth of right-bank tributary, about 2.9 mi upstream from Biscuit Brook, near Shandaken.		7-13-93 8- 9-94	*0.017 .18	
420006074265301 unnamed tributary	West Branch Neversink River	Lat 42°00'06", long 74°26'53", Ulster County, Hydrologic Unit 02040104, 0.15 mi upstream from mouth of right-bank tributary, about 2.9 mi upstream from Biscuit Brook, near Shandaken.		6-17-94 7-20-94 8-26-94 10-13-94	0.47 *.26 1.45 *.18	
420006074265401 unnamed tributary	unnamed tributary to West Branch Neversink River	Lat 42°00'06", long 74°26'54", Ulster County, Hydrologic Unit 02040104, 114 ft upstream from mouth of right-bank tributary to right-bank tributary, about 4.0 mi northeast of Frost Valley, near Shandaken.		6-17-94 7-20-94 8-26-94 10-13-94	0.025 *.030 .075 *.045	
420007074265301 unnamed tributary	unnamed tributary to West Branch Neversink River	Lat 42°00'07", long 74°26'53", Ulster County, Hydrologic Unit 02040104, 102 ft upstream from mouth of right-bank tributary to right-bank tributary, about 4.0 mi northeast of Frost Valley, near Shandaken.		7-13-93 6-17-94 7-20-94 8-26-94 10-13-94	0.037 .064 *.048 .085 *.043	

* Base flow.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1996--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Delaware River basin--Continued						
420034074253201	Neversink River	Lat 42°00'34", long 74°25'32", Ulster County, Hydrologic Unit			11- 3-92	1.69
West Branch		02040104, 4.7 mi upstream from			12-22-92	1.08
Neversink		Biscuit Brook, near Shandaken.			5- 9-93	2.97
River					5-27-93	.64
420037074290401	Biscuit Brook	Lat 42°00'37", long 74°29'04", Ulster County, Hydrologic Unit			8-25-93	*0.019
unnamed		02040104, 87 ft upstream from			12- 1-93	2.36
tributary		mouth of left-bank tributary, 1.5 mi upstream from Pigeon Brook, near Frost Valley.				
420049074283901	Biscuit Brook	Lat 42°00'49", long 74°28'39", Ulster County, Hydrologic Unit			9-15-92	*0.38
unnamed		02040104, 0.5 mi upstream from			12- 2-92	.80
tributary		mouth of left-bank tributary, 1.5 mi upstream from Pigeon Brook, near Frost Valley.			4-23-93	4.77
					6-13-94	*.31
Streams tributary to Lake Ontario						
04257000	Black River	Lat 43°53'56", long 75°03'08", Herkimer County, Hydrologic Unit	171	1909-95	10-10-95	138
Beaver		04150101, at logging bridge about			11-29-95	589
River		0.2 mi downstream from Stillwater			1-16-96	566
		Dam, 7.5 mi west of Beaver River			2-27-96	646
		Post Office, and 2.5 mi upstream			5-21-96	1,120
		from Moshier Creek.			7- 1-96	400
					7-29-96	647
Streams tributary to St. Lawrence River						
04274515	Lake Champlain	Lat 44°26'28", long 73°40'34", Essex County, Hydrologic Unit	238	1938	1-30-96	*668
West Branch		02010004, at bridge on State High-				
Ausable		way 9N, 500 ft upstream from the				
River		confluence with the East Branch				
		Ausable River, at Au Sable Forks.				

* Base flow.

CHEMICAL QUALITY OF PRECIPITATION

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DELAWARE RIVER BASIN

BISCUIT BROOK ABOVE PIGEON BROOK AT FROST VALLEY, NY
(National trends network - site 00336840)

LOCATION.--Lat 41°59'37", long 74°30'13", Ulster County, Hydrologic Unit 02040104, 0.5 mi downstream from Hydrologic benchmark station at Biscuit Brook above Pigeon Brook at Frost Valley (site number 01434025).

PERIOD OF RECORD.--October 1994 to current year. Records from October 1983 to September 1994 are unpublished and available in files of the Geological Survey.

INSTRUMENTATION.--The wetfall and dustfall sample collector is an Aerochem Metrics Model 301*. 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. Inches of precipitation are obtained from an onsite recording weighing-bucket rain gage.

REMARKS.--Also published as a continuous-record gaging station (see station 01434025).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
WEEKLY WETFALL

DATE	TOTAL PRECIP- ITATION FOR DEFINED PERIOD (IN) (00193)	SPEC. CONDUCT- TANCE FIELD ATM DEP WET TOT (US/CM) (83154)	PH FIELD ATM DEP WET T (UNITS) (83106)	CALCIUM WET DIS (MG/L) (82932)	MAG- NESIUM WET DIS (MG/L) (83002)	SODIUM WET DIS (MG/L) (83138)	POTAS- SIUM WET DIS (MG/L) (83120)	SULFATE WET DIS AS SO4 (MG/L) (83160)	CHLO- RIDE ATM DEP WET DIS (MG/L) (82944)	NI- TROGEN NITRATE ATM DEP WET DIS AS NO3 (MG/L) (83071)	NI- TROGEN AMMON. ATM DEP WET DIS AS NH4 (MG/L) (83047)	PHOS- PHORUS ORTHO ATM DEP WET DIS AS PO4 (MG/L) (83111)
OCT												
OCT 03-10	2.93	15.8	4.43	0.050	0.024	0.086	0.026	1.12	0.11	1.19	0.210	<0.003
OCT 10-17	1.61	11.4	4.65	0.020	0.004	0.030	0.003	0.87	0.06	0.49	0.050	<0.003
OCT 17-24	3.97	4.2	5.10	0.010	0.022	0.259	0.011	0.18	0.41	0.17	0.040	<0.003
OCT 24-31	2.14	16.7	4.77	0.040	0.013	0.100	0.012	1.21	0.15	1.23	0.180	<0.003
OCT 31-NOV 07	1.09	18.4	4.42	<0.010	<0.003	0.051	0.004	1.01	0.07	1.16	0.260	<0.003
NOV 07-21	5.15	8.4	4.79	0.010	0.008	0.074	0.004	0.43	0.13	0.51	0.030	<0.003
NOV 21-28	0.04	--	--	--	--	--	--	--	--	--	--	--
NOV 28-DEC 05	0.55	31.1	4.28	0.400	0.031	0.071	0.025	1.85	0.17	3.92	0.620	<0.003
DEC 05-12	1.04	35.2	4.35	0.050	0.021	0.155	0.016	1.58	0.39	2.49	0.350	<0.003
DEC 12-27	1.36	23.1	4.09	0.040	0.007	0.067	0.007	0.95	0.15	1.77	0.240	<0.003
DEC 27-JAN 02	0.03	--	--	0.230	0.043	0.464	0.074	2.83	0.65	5.38	0.250	<0.009
JAN 02-10	2.06	8.2	4.65	0.020	0.003	0.048	0.003	0.31	0.06	0.97	0.030	<0.003
JAN 10-16	0.66	4.6	4.86	<0.010	<0.003	0.035	<0.003	0.14	0.06	0.38	<0.020	<0.003
JAN 16-23	2.88	11.9	4.56	0.030	0.033	0.341	0.014	0.76	0.55	0.54	<0.020	<0.003
JAN 23-30	4.31	14.6	4.66	0.030	0.029	0.229	0.012	0.79	0.38	0.75	0.090	<0.003
JAN 30-FEB 06	0.24	15.8	4.42	0.090	0.011	0.085	<0.003	0.17	0.15	2.24	<0.020	<0.003
FEB 06-13	0.55	32.8	4.19	0.050	0.013	0.127	0.012	1.85	0.18	3.43	0.470	<0.003
FEB 13-20	0.51	34.5	4.16	0.050	0.039	0.348	0.015	1.45	0.69	2.92	0.130	<0.003
FEB 20-27	1.46	26.1	4.23	0.120	0.076	0.665	0.030	2.16	1.17	1.68	0.300	<0.003
FEB 27-MAR 05	0.42	41.2	4.14	0.540	0.050	0.124	0.028	2.36	0.20	4.96	0.540	<0.003
MAR 05-12	1.58	20.4	4.34	0.060	0.011	0.075	0.009	1.09	0.09	2.07	0.230	<0.003
MAR 12-19	0.21	44.5	4.06	0.250	0.029	0.067	0.022	4.74	0.19	5.12	1.74	<0.003
MAR 19-26	0.88	28.3	4.25	0.140	0.059	0.401	0.026	1.62	0.63	2.65	0.260	<0.003
MAR 26-APR 02	0.29	16.0	4.44	0.070	0.011	0.098	<0.003	0.78	0.14	1.31	0.070	<0.003
APR 02-09	0.44	12.0	4.60	0.050	0.010	0.066	0.004	0.59	0.10	1.17	0.110	<0.003
APR 09-16	--	26.1	4.22	0.140	0.019	0.081	0.008	2.13	0.17	1.68	0.370	<0.003
APR 16-23	0.12	36.1	4.16	0.390	0.072	0.126	0.043	3.31	0.15	2.70	0.250	<0.003
APR 23-30	2.85	15.0	4.50	0.170	0.029	0.102	0.022	1.50	0.15	1.41	0.360	<0.003
APR 30-MAY 07	--	19.3	4.38	0.050	0.021	0.167	0.014	1.44	0.27	1.50	0.270	<0.003
MAY 07-14	--	29.1	4.21	0.060	0.015	0.071	0.024	2.25	0.11	1.59	0.240	<0.003
MAY 14-21	0.26	--	--	--	--	--	--	--	--	--	--	--

* The use of the brand name in this report is for identification purposes only and does not imply endorsement by the U.S. Geological Survey.

CHEMICAL QUALITY OF PRECIPITATION

DELAWARE RIVER BASIN

BISCUIT BROOK ABOVE PIGEON BROOK AT FROST VALLEY, NY--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
WEEKLY WETFALL

DATE	TOTAL PRECIP- ITATION FOR DEFINED PERIOD (IN) (00193)	SPEC. CONDUCT- TANCE FIELD ATM DEP WET TOT (US/CM) (83154)	PH FIELD ATM DEP WET T (UNITS) (83106)	CALCIUM ATM DEP WET DIS (MG/L) (82932)	MAG- NESIUM ATM DEP WET DIS (MG/L) (83002)	SODIUM ATM DEP WET DIS (MG/L) (83138)	POTAS- SIUM ATM DEP WET DIS (MG/L) (83120)	SULFATE ATM DEP WET DIS AS SO4 (MG/L) (83160)	CHLO- RIDE ATM DEP WET DIS (MG/L) (82944)	NI- TROGEN NITRATE ATM DEP WET DIS AS NO3 (MG/L) (83071)	NI- TROGEN AMMON. ATM DEP WET DIS AS NH4 (MG/L) (83047)	PHOS- PHORUS ORTHO ATM DEP WET DIS AS PO4 (MG/L) (83111)
MAY												
21-28	0.38	--	--	--	--	--	--	--	--	--	--	--
MAY 28- JUN 04	0.69	3.4	4.88	0.010	0.009	0.072	0.006	0.11	0.11	0.22	<0.020	<0.003
JUN												
04-11	3.05	--	--	--	--	--	--	--	--	--	--	--
JUN												
11-18	0.38	--	--	--	--	--	--	--	--	--	--	--
JUN												
18-25	1.01	--	--	--	--	--	--	--	--	--	--	--
JUN 25- JUL 02	0.96	--	--	--	--	--	--	--	--	--	--	--
JUL												
02-09	1.79	32.6	4.18	0.080	0.013	0.013	0.010	2.62	0.07	2.18	0.350	<0.003
JUL												
09-16	5.41	12.1	4.42	0.030	0.005	0.022	0.003	1.07	0.05	0.65	0.130	<0.003
JUL												
16-23	0.43	33.1	4.11	0.100	0.017	0.047	0.011	2.85	0.11	1.85	0.220	<0.003
JUL												
23-30	1.82	32.9	4.12	0.060	0.010	0.020	0.061	3.54	0.11	1.97	0.340	0.008
JUL 30- AUG 06	1.45	49.3	3.94	0.050	0.010	0.033	0.012	4.39	0.14	2.29	0.280	<0.003
AUG												
06-13	0.17	43.2	4.01	0.860	0.089	0.159	0.114	3.97	0.22	6.41	0.800	<0.003
AUG												
13-20	0.23	69.5	3.81	0.220	0.042	0.038	0.024	6.08	0.18	4.52	0.700	<0.003
AUG												
20-27	0.78	12.1	4.46	0.030	0.005	0.032	0.006	0.89	0.07	0.90	0.210	<0.003
AUG 27- SEP 03	1.43	84.9	3.78	0.210	0.027	0.051	0.022	5.10	0.34	7.46	0.680	<0.003
SEP												
03-10	1.71	26.2	4.23	0.050	0.032	0.238	0.017	1.96	0.42	1.57	0.240	<0.003
SEP												
10-17	0.56	14.9	4.40	0.010	0.003	0.036	0.003	0.85	0.06	1.14	0.080	<0.003
SEP												
17-24	2.77	7.1	4.74	<0.010	<0.003	0.026	0.004	0.56	0.04	0.34	0.050	<0.003
SEP 24- OCT 01	1.54	16.7	4.41	0.020	0.021	0.200	0.011	1.15	0.33	1.11	0.200	<0.003

GROUND-WATER LEVELS

377

DUTCHESS COUNTY

414737073563301. Local number, Du 321.

LOCATION.--Lat 41°47'37", long 73°56'33", Hydrologic Unit 02020008, near Hyde Park.

Owner: U.S. National Park Service.

AQUIFER.--Confined aquifer in shale of Ordovician age.

WELL CHARACTERISTICS.--Drilled unused well, diameter 6 in., depth 127 ft, cased to unknown depth, open hole.

INSTRUMENTATION.--Water-stage recorder--hourly punch.

DATUM.--Elevation of land-surface datum is 170 ft above sea level, from topographic map.

Measuring point: Top of extended casing, 3.10 ft above land-surface datum.

REMARKS.--Water level responds to semidiurnal earth tides (approximately 0.05 ft).

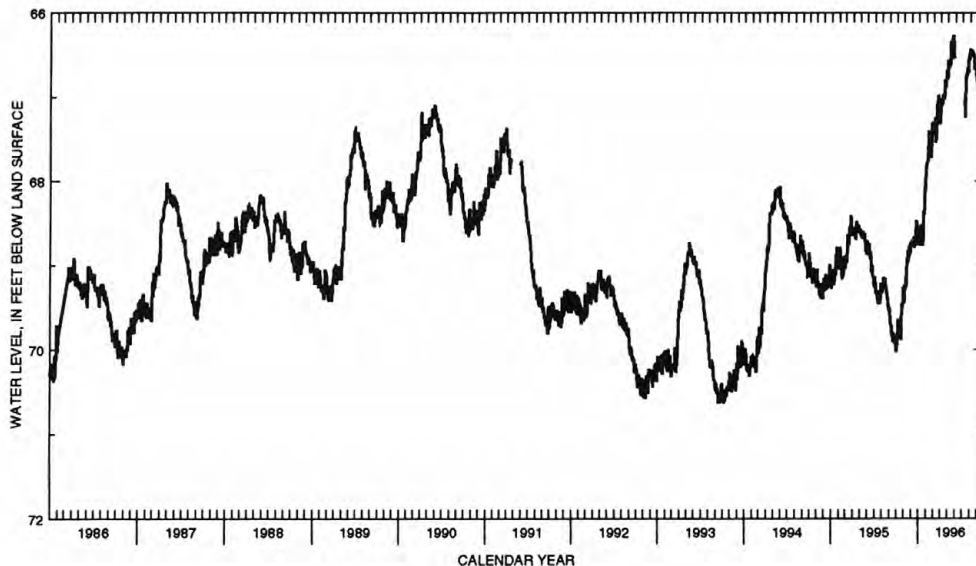
PERIOD OF RECORD.--September 1948 to April 1950, April 1953 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 65.62 ft below land-surface datum, June 22, 1953; lowest, 73.85 ft below land-surface datum, Sept. 13, 1966.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70.01	69.45	68.73	68.70	67.82	67.37	67.13	66.57	---	---	66.45	66.87
2	69.96	69.40	68.70	68.66	67.81	67.37	67.06	66.57	---	---	66.42	66.88
3	69.93	69.29	68.74	68.58	67.78	67.33	67.04	66.61	---	---	66.43	66.91
4	69.91	69.23	68.73	68.57	67.77	67.40	67.04	66.60	---	---	66.46	66.95
5	69.91	69.26	68.76	68.63	67.77	67.43	67.05	66.60	---	---	66.48	66.99
6	69.70	69.29	68.74	68.73	67.76	67.37	67.09	66.60	---	---	66.50	67.02
7	69.64	69.25	68.72	68.76	67.76	67.31	67.09	66.64	---	---	66.50	67.03
8	69.68	69.13	68.74	68.62	67.67	67.24	67.06	66.64	---	---	66.49	67.01
9	69.76	69.14	68.75	68.53	67.52	67.29	67.04	66.63	---	67.04	66.46	67.01
10	69.82	69.23	68.68	68.52	67.46	67.44	67.00	66.60	---	67.05	66.44	67.03
11	69.85	69.24	68.66	68.59	67.41	67.54	66.96	66.50	---	67.14	66.46	67.08
12	69.85	69.02	68.70	68.62	67.40	67.50	66.97	66.35	---	67.24	66.49	67.11
13	69.84	68.98	68.77	68.54	67.46	67.42	67.00	66.35	---	67.11	66.49	67.12
14	69.80	68.98	68.78	68.55	67.48	67.33	67.00	66.43	---	66.79	66.48	67.09
15	69.70	68.83	68.71	68.61	67.49	67.20	67.03	66.51	---	66.77	66.50	67.12
16	69.68	68.83	68.69	68.73	67.53	67.09	66.95	66.54	---	66.73	66.52	67.19
17	69.76	68.90	68.69	68.76	67.51	67.10	66.80	66.49	---	66.74	66.54	67.21
18	69.83	68.95	68.70	68.75	67.51	67.12	66.82	66.45	---	66.77	66.56	67.09
19	69.87	68.93	68.66	68.60	67.62	67.12	66.87	66.39	---	66.72	66.61	67.05
20	69.87	68.90	68.55	68.36	67.72	67.05	66.87	66.32	---	66.66	66.66	67.12
21	69.73	68.83	68.48	68.38	67.69	66.99	66.86	66.28	---	66.66	66.66	67.19
22	69.45	68.77	68.48	68.40	67.57	66.99	66.88	66.26	---	66.69	66.67	67.20
23	69.47	68.78	68.54	68.36	67.47	67.04	66.83	66.32	---	66.70	66.67	67.14
24	69.50	68.83	68.57	68.21	67.38	67.14	66.75	66.40	---	66.70	66.66	67.17
25	69.49	68.88	68.59	68.08	67.31	67.20	66.74	66.49	---	66.71	66.66	67.19
26	69.48	68.84	68.57	68.14	67.32	67.20	66.69	66.54	---	66.60	66.68	67.27
27	69.46	68.77	68.57	68.10	67.36	67.26	66.68	---	---	66.50	66.70	67.34
28	69.32	68.72	68.63	67.96	67.31	67.32	66.76	---	---	66.53	66.75	67.35
29	69.26	68.75	68.70	67.97	67.31	67.27	66.79	---	---	66.56	66.77	67.29
30	69.32	68.77	68.75	67.91	---	67.22	66.64	---	---	66.53	66.80	67.30
31	69.41	---	68.74	67.84	---	67.17	---	---	---	66.49	66.84	---

WTR YEAR 1996 HIGHEST RECORDED 66.24 May 22, 1996 LOWEST 70.05 Oct. 1, 1995



GROUND-WATER LEVELS

ONEIDA COUNTY

433112075091501. Local number, Oe 151.

LOCATION.--Lat 43°31'12", long 75°09'15", Hydrologic Unit 04150101, at Woodgate.

Owner: Henry Rubyor.

AQUIFER.--Water-table aquifer in sand of Pleistocene age.

WELL CHARACTERISTICS.--Dug domestic well, diameter 36 in., depth 30.9 ft in May 1996, stone-lined.

INSTRUMENTATION.--Water-stage recorder--hourly punch. Tape gage read weekly by observer through September 7, 1991.

DATUM.--Elevation of land-surface datum is 1,484.94 ft above sea level.

Measuring point: Top of 2-ft square concrete well cover at midpoint of south side of rectangular opening, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--July 1926 to August 1945, October 1948 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.43 ft below land-surface datum, Apr. 3, 1976; lowest measured, 30.31 ft below land-surface datum, Feb. 25, 1961.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.74	27.00	24.23	24.67	22.74	20.96	20.67	14.52	---	17.95	20.19	23.07
2	28.51	26.88	24.32	24.78	---	20.97	20.90	14.85	---	18.36	20.24	23.24
3	28.54	26.85	24.55	24.84	---	20.78	20.69	14.78	15.28	18.29	20.42	23.13
4	28.50	26.74	24.35	25.09	---	20.63	20.25	14.59	15.57	18.30	20.59	23.08
5	28.49	26.66	24.43	---	---	20.57	20.13	14.57	15.72	18.57	20.45	23.66
6	28.51	26.60	24.35	---	---	20.50	19.83	14.55	15.90	18.67	20.72	23.90
7	28.58	26.45	24.36	---	---	20.66	19.86	14.56	15.94	18.41	20.84	23.71
8	28.59	26.38	24.27	---	---	20.57	19.89	14.49	16.14	18.44	20.88	23.71
9	28.51	26.38	24.20	---	21.95	20.62	19.67	14.60	16.40	18.66	20.98	23.71
10	28.48	26.38	24.22	---	22.06	20.78	19.65	14.68	16.70	18.79	20.97	23.78
11	28.56	26.16	24.38	---	22.01	20.70	19.82	14.74	16.57	18.73	21.13	23.76
12	28.51	26.18	24.33	25.48	22.19	20.63	19.75	14.71	16.64	18.89	21.37	23.87
13	28.51	26.09	24.05	25.42	22.35	20.74	19.51	14.55	16.61	18.94	21.33	23.96
14	28.52	26.01	24.12	25.28	22.48	20.81	19.56	14.07	16.51	19.15	21.24	23.94
15	28.52	25.83	24.17	25.40	22.43	20.72	19.65	13.55	16.52	19.02	21.39	24.30
16	28.49	25.79	24.29	25.32	22.28	20.79	19.28	13.32	16.40	19.13	21.44	24.32
17	28.55	25.66	24.27	25.20	22.24	20.77	19.14	13.28	16.41	19.24	21.69	24.28
18	28.38	25.40	24.28	25.40	22.27	20.90	18.88	13.24	16.55	19.26	21.78	24.32
19	28.40	25.43	24.15	25.41	22.45	21.21	19.39	13.24	16.44	19.14	21.58	24.56
20	28.33	25.24	24.33	25.55	22.53	21.04	18.26	13.30	16.40	19.40	21.56	24.45
21	28.24	25.17	24.33	25.54	22.66	21.02	17.58	13.64	16.66	19.81	21.62	24.43
22	28.21	24.87	24.35	25.58	22.55	21.09	17.16	---	16.70	19.61	22.15	24.82
23	28.12	24.72	24.49	25.18	22.42	20.98	16.69	---	16.79	19.85	22.56	24.74
24	27.90	24.63	24.41	24.79	22.23	21.18	16.41	---	16.84	19.66	22.54	24.68
25	27.78	24.58	24.29	24.46	22.13	21.16	15.98	---	16.93	19.65	22.37	24.72
26	27.67	24.53	24.43	24.16	21.97	21.20	15.69	---	17.19	19.73	23.05	25.09
27	27.48	24.49	24.61	23.56	21.96	21.32	15.37	---	17.62	19.80	22.88	25.00
28	27.29	24.72	24.86	23.31	21.54	21.30	15.21	---	17.76	19.79	22.60	24.92
29	27.21	24.50	24.73	23.23	21.20	21.24	14.90	---	17.67	19.79	22.58	24.98
30	27.06	24.32	24.63	23.13	---	21.04	14.58	---	17.76	19.90	22.75	24.83
31	27.05	---	24.70	23.12	---	20.82	---	---	---	20.25	22.97	---

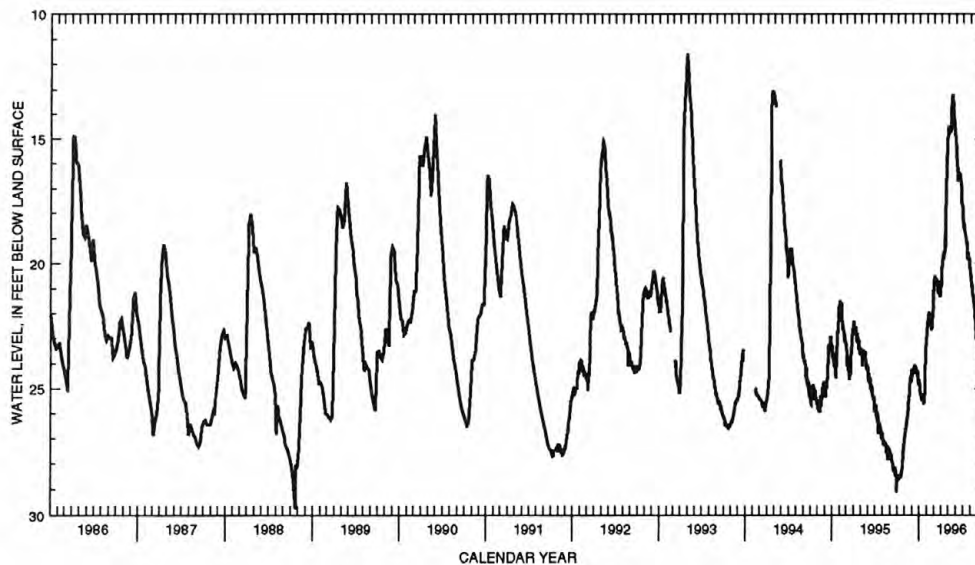
WTR YEAR 1996

HIGHEST RECORDED

13.06 May 18, 1996

LOWEST

29.25 Oct. 1, 1995



GROUND-WATER LEVELS

379

SARATOGA COUNTY

425242073473201. Local number, Sa 1100.

LOCATION.--Lat 42°52'42", long 73°47'32", Hydrologic Unit 02020004, near Clifton Park.

Owner: Country Knolls Water Works.

AQUIFER.--Confined aquifer in sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled unused well, diameter 6 in., depth 180 ft, cased to 180 ft, open end.

INSTRUMENTATION.--Water-stage recorder--hourly punch.

DATUM.--Elevation of land-surface datum is 248 ft above sea level, from topographic map.

Measuring point: Top of casing, 3.00 ft above land-surface datum.

REMARKS.--Water level affected by pumping from nearby public-supply well.

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

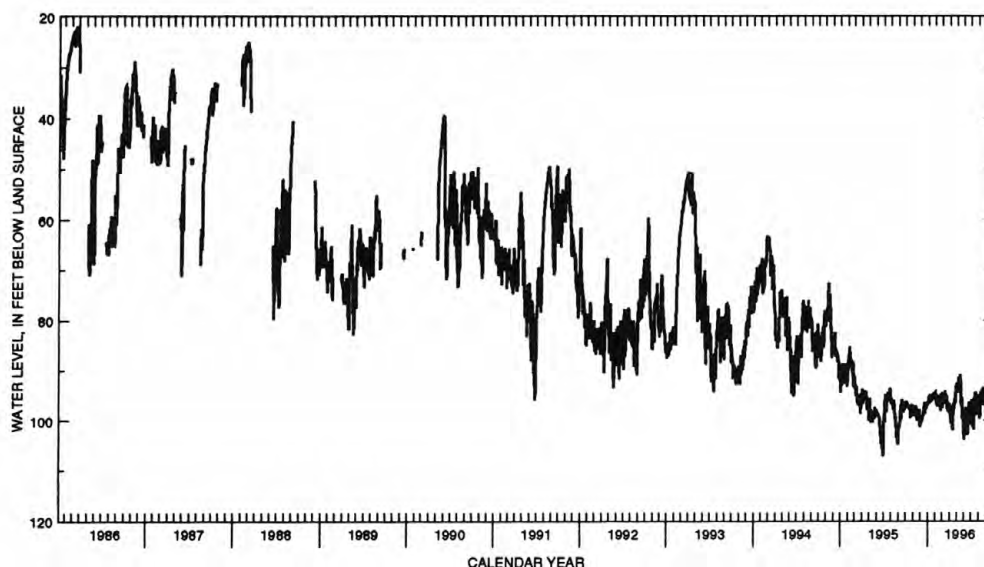
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 21.84 ft below land-surface datum, Mar. 23, 24, 1986; lowest recorded, 107.38 ft below land-surface datum, June 30, July 1, 1995.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96.79	98.07	101.30	96.63	94.64	94.99	98.12	92.70	102.60	97.52	95.16	96.72
2	96.40	97.85	100.91	96.63	94.64	95.29	98.02	92.64	102.96	99.27	97.15	96.77
3	97.17	97.73	100.60	96.22	94.55	97.45	97.66	92.70	103.81	98.79	97.47	98.79
4	97.15	98.13	100.50	96.37	94.48	97.03	97.46	93.52	100.00	97.21	95.70	99.42
5	96.80	98.54	100.67	96.51	94.78	95.55	97.62	93.82	98.77	95.83	97.51	97.33
6	96.10	98.67	100.31	96.56	96.43	94.80	98.55	93.44	99.34	98.62	99.12	96.23
7	96.54	98.71	100.21	96.05	95.42	94.93	99.83	92.92	99.43	98.40	99.69	95.95
8	96.64	98.31	100.09	95.44	94.94	94.65	100.36	94.06	98.22	100.55	98.49	96.22
9	97.01	98.90	99.64	95.32	96.34	95.39	100.52	94.29	98.20	101.26	96.10	94.25
10	97.12	98.76	99.53	95.44	96.81	96.41	100.15	92.12	97.68	101.04	96.64	93.01
11	97.26	97.44	99.16	95.85	96.91	96.59	100.25	91.28	97.50	100.59	95.64	92.37
12	97.27	97.12	99.36	95.64	97.25	95.76	100.23	92.24	99.41	101.81	94.22	93.17
13	97.44	97.88	99.17	95.26	95.37	95.13	100.76	91.42	99.16	99.39	94.55	93.77
14	97.25	97.72	98.47	95.02	95.07	94.50	101.45	91.70	99.40	97.72	94.52	95.25
15	97.17	97.44	98.64	95.59	95.30	94.05	101.92	92.11	99.80	96.83	95.12	94.96
16	97.23	98.25	98.28	95.91	95.49	94.87	100.15	92.38	101.61	95.43	94.13	93.86
17	97.95	99.01	98.44	95.78	95.36	95.83	98.64	91.54	102.84	95.92	93.84	94.75
18	97.64	99.58	98.09	95.81	95.99	96.08	97.44	90.79	102.49	95.03	94.09	94.46
19	97.52	100.06	97.30	94.96	96.39	96.02	97.06	92.00	101.59	94.46	94.40	93.76
20	97.30	98.66	96.89	95.63	96.13	95.65	96.49	94.77	100.00	94.40	94.06	94.00
21	97.00	98.52	96.49	95.76	96.26	95.20	97.59	95.28	97.88	95.15	93.48	94.47
22	99.59	98.68	98.65	95.69	95.49	95.37	97.74	96.72	98.02	96.40	95.90	94.48
23	99.31	98.31	98.03	95.65	96.35	96.57	96.29	97.31	97.11	97.49	96.99	92.83
24	98.19	99.00	97.62	94.80	96.81	97.90	95.74	95.85	98.11	98.91	95.52	92.54
25	97.70	99.09	97.38	95.08	97.95	97.90	95.91	95.48	96.34	98.23	96.60	95.30
26	97.51	98.96	97.03	95.40	97.95	97.26	94.52	96.94	98.41	96.67	96.04	98.34
27	97.22	97.86	97.16	94.42	96.28	97.36	94.40	99.83	99.32	95.12	94.39	99.48
28	96.94	98.19	97.47	94.57	94.77	97.18	96.07	99.18	99.90	95.93	94.51	99.16
29	96.87	100.95	97.24	94.71	94.73	96.58	96.13	98.06	100.76	96.23	96.22	97.84
30	99.12	100.28	97.00	94.65	---	97.64	93.77	99.22	97.69	96.08	97.03	99.67
31	97.76	---	96.68	94.49	---	98.54	---	99.48	---	95.01	96.48	---

WTR YEAR 1996 HIGHEST 89.83 May 18, 1996

LOWEST 104.70 June 3, 1996



NATIONAL WATER-QUALITY ASSESSMENT (NAWQA) PROGRAM

HUDSON RIVER BASIN

Introduction

In 1991, the U.S. Geological Survey began full-scale implementation of a National Water-Quality Assessment (NAWQA) program. The long-term goals of the NAWQA program are to describe the physical, chemical, and biological conditions for a large part of the Nation's surface-water and ground-water resources, and to identify the major natural and human factors that influence the quality of these resources. Sixty study units, ranging in size from 1,200 to more than 60,000 square miles and representing major river or aquifer systems in the United States, will be investigated for the NAWQA program. Water-quality information collected during the program will be useful to policy makers and managers at all levels of government as well as to other water-resource professionals.

Assessment of the 13,400 square mile Hudson River basin began in 1991. A 3-year intensive data-collection phase ended in 1996 and the study is currently in a 6-year period of low-intensity sampling, evaluation, and assessment. Intensive sampling is planned to resume in 2002.

Surface-water, ground-water, and biological data collected in the Hudson River basin for selected sampling activities during the 1995 and 1996 water years are compiled in the following tables. Pesticide data published in the 1993 and 1994 annual reports (WDR NY-93-1 and NY-94-1) are republished here because many of the method detection limits were revised after reevaluation of method performance. Pesticide data from the 1995 water year have not been previously published. Revised method detection limits are listed after this introduction.

Data for the sampling activities are compiled in the following tables with additional information describing data-collection methods summarized at the beginning of each table. More detailed explanations of the data-collection methods are available in the following reports:

American Fisheries Society, 1991, Common and scientific names of fishes from the United States and Canada (5th ed.): American Fisheries Society special publication 20, 183 p.

Koterba, M., Wilde, F., and Lapham, W., 1995, Ground-water data collection protocols and procedures for the National Water-Quality Assessment program: Collection and documentation of water-quality samples and related data: U.S. Geological Survey Open-File Report 95-399, 113 p.

Lapham, W., Wilde, F., and Koterba, M., 1995, Ground-water data collection protocols and procedures for the National Water-Quality Assessment program: Selection, installation, and documentation of wells, and collection of related data: U.S. Geological Survey Open-File Report 95-398, 69 p.

Meador, M.R., Cuffney, T.F., and Gurtz, M.E., 1993, Methods for sampling fish communities as a part of the National Water Quality Assessment Program: U.S. Geological Survey Open-File Report 93-104, 40 p.

Shelton, L.R., 1994, Field guide for collecting and processing stream-water samples for the National Water-Quality Assessment program: U.S. Geological Survey Open-File Report 94-455, 42 p.

Revised Method Detection Limits

The following pesticide method detection limits were revised after reevaluation of method performance. (MDL, method detection limit; ug/L, microgram per liter)

Parameter Code	Compound Name	MDL	Unit	Parameter Code	Compound Name	MDL	Unit
49260	Acetochlor	0.002	ug/L	39532	Malathion	0.005	ug/L
46342	Alachlor (Lasso)	0.002	ug/L	39415	Metolachlor (Dual)	0.002	ug/L
04040	Atrazine, desethyl-	0.002	ug/L	82630	Metribuzin (Lexone, Sencor)	0.004	ug/L
39632	Atrazine	0.001	ug/L	82671	Molinate (Ordram)	0.004	ug/L
82686	Azinphos-methyl (Guthion)	0.001	ug/L	82684	Napropamide (Devrinol)	0.003	ug/L
82673	Benfluralin (Benefin, Balan, Bonalin)	0.002	ug/L	39542	Parathion, Ethyl-	0.004	ug/L
04028	Butylate (Genate Plus, Suntan+)	0.002	ug/L	82667	Parathion, Methyl- (PennCap-M)	0.006	ug/L
82680	Carbaryl (Sevin)	0.003	ug/L	82669	Pebulate (Tillam)	0.006	ug/L
82674	Carbofuran (Furandane)	0.003	ug/L	82683	Pendimethalin	0.004	ug/L
38933	Chlorpyrifos	0.004	ug/L	82687	Permethrin, cis-	0.005	ug/L
04041	Cyanazine	0.004	ug/L	82664	Phorate (Thimet)	0.002	ug/L
82682	Dacthal (DCPA, Chlorthal-dimethyl)	0.002	ug/L	82676	Pronamide (Kerb, Propyzamid)	0.003	ug/L
34653	DDE, p,p'-	0.006	ug/L	04037	Prometon	0.018	ug/L
39572	Diazinon	0.002	ug/L	04024	Propachlor (Ramrod)	0.007	ug/L
39381	Dieldrin	0.001	ug/L	82679	Propanil (Stampede)	0.004	ug/L
82660	Diethylaniline, 2,6-	0.003	ug/L	82685	Propargite (Omite, alkyl sulfite)	0.013	ug/L
82667	Disulfoton	0.017	ug/L	04035	Simazine (Aquazine, Princep)	0.005	ug/L
82668	EPTC (Eptam)	0.002	ug/L	82681	Thiobencarb (Bolero)	0.002	ug/L
82663	Ethalfuralin (Sonalin)	0.004	ug/L	82670	Tebuthiuron (Spike)	0.010	ug/L
82672	Ethoprop (Mocap, Ethoprophos)	0.003	ug/L	82665	Terbacil (Sinbar)	0.007	ug/L
04095	Fonofos	0.003	ug/L	82675	Terbufos (Counter)	0.013	ug/L
34253	HCH, alpha-	0.002	ug/L	82678	Triallate (Avadex BW, Far-Go)	0.001	ug/L
39341	HCH, gamma- (Lindane)	0.004	ug/L	82661	Trifluralin (Treflan)	0.002	ug/L
82666	Linuron (Lorox, Linex)	0.002	ug/L				

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SITES

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Fish survey results - Hudson River basin
(National water-quality assessment program)

Fish-community surveys were conducted as part of the National Water-Quality Assessment Program at 16 stream sites in the Hudson River Basin during the 1995 water year. Fish were collected by electrofishing with pulsed-DC current in representative 505 ft to 971 ft (154 m to 296 m) sections. Two electrofishing passes were made at each site, except for station 0136216850, where one electrofishing pass was made. One-quarter inch mesh size was used for dip nets. Fish were identified, measured, weighed, and checked for anomalies such as parasites, lesions, and skeletal deformities. Most individuals were returned to the stream after processing.

FISH SPECIES AND TOTAL NUMBER COLLECTED

Family names are in uppercase, scientific names are in italics, and common names are in parentheses. Names follow American Fisheries Society (1991).

STATION NUMBER	STATION NAME	REACH	DATE	ANGUILLIDAE	SALMONIDAE		
				<i>Anguilla</i> <i>rostrata</i> (American eel)	<i>Onco-</i> <i>rhynchus</i> <i>mykiss</i> (rainbow trout)	<i>Salmo</i> <i>trutta</i> (brown trout)	<i>Salvelinus</i> <i>fontinalis</i> (brook trout)
01333500	Little Hoosic River at Petersburg NY	A	08/17/95	0	43	33	1
01348580	Caroga Creek at Palantine Church NY	A	08/01/95	0	0	0	0
01349150	Canajoharie Creek nr Canajoharie NY	A	08/02/95	0	0	0	0
01351200	Fox Creek nr Schoharie NY	A	08/03/95	0	16	0	0
01356190	Lisha Kill northwest of Niskayuna NY	A	08/15/95	0	0	1	0
01359135	Patroon Creek at Albany NY	A	08/14/95	0	0	0	0
01361200	Claverack Creek at Claverack NY	A	08/16/95	2	0	2	0
0136216850	Roeliff Jansen Kill at Jackson Corners NY	B	08/08/95	27	0	2	0
01362200	Esopus Creek at Allaben NY	A	08/22/95	0	131	35	0
01364970	Rondout Creek nr Sundown NY	A	08/24/95	0	0	23	53
01372051	Fall Kill at Poughkeepsie NY	A	08/21/95	0	0	0	0
01372200	Wappinger Creek nr Clinton Corners NY	A	08/07/95	1	0	11	0
01373690	Woodbury Creek nr Highland Mills NY	A	08/23/95	6	0	63	0
01374494	Haviland Hollow Brook nr Putnam Lake NY	A	08/30/95	0	0	0	248
01374987	Kisco River below Mount Kisco NY	B	08/31/95	0	0	19	0
01376500	Saw Mill River at Yonkers NY	A	08/29/95	14	0	0	0

STATION NUMBER	SALMONIDAE--cont.	ESOCIDAE	CYPRINIDAE						
	<i>Salmo</i> <i>trutta</i> x <i>Salvelinus</i> <i>fontinalis</i> (tiger trout)	<i>Esox</i> <i>americanus</i> <i>americanus</i> (redfin pickerel)	<i>Cyprinus</i> <i>carpio</i> (common carp)	<i>Carassius</i> <i>auratus</i> (goldfish)	<i>Exoglossum</i> <i>maxillingus</i> (cutlips minnow)	<i>Notemigonus</i> <i>craysoleucas</i> (golden shiner)	<i>Semotilus</i> <i>corporalis</i> (fallfish)	<i>Semotilus</i> <i>atromaculatus</i> (chreek chub)	<i>Rhinichthys</i> <i>atratulus</i> (blacknose dace)
01333500	0	0	0	0	0	0	0	55	428
01348580	0	0	3	0	0	0	0	0	0
01349150	0	0	4	0	0	0	0	12	64
01351200	0	0	0	0	18	0	10	1	3
01356190	0	0	0	0	0	0	0	165	299
01359135	0	0	0	0	0	0	0	0	0
01361200	0	0	0	0	71	0	13	12	573
0136216850	0	0	0	0	53	0	0	90	158
01362200	0	0	0	0	340	0	0	0	281
01364970	0	0	0	0	0	0	0	0	0
01372051	0	0	0	0	3	0	0	0	83
01372200	0	0	0	0	131	0	0	29	136
01373690	0	0	0	0	7	0	0	18	53
01374494	2	1	0	0	0	0	54	3	57
01374987	0	0	0	0	0	0	0	23	124
01376500	0	0	6	15	0	4	0	0	24

	CYPRINIDAE--cont.							CATOSTOMIDAE
STATION NUMBER	<i>Rhinichthys cataractae</i> (longnose dace)	<i>Notropis hudsonius</i> (spottail shiner)	<i>Camptostoma anomalum</i> (central stoneroller)	<i>Pimephales notatus</i> (bluntnose minnow)	<i>Pimephales promelas</i> (fathead minnow)	<i>Cyprinella analostana</i> (satinfin shiner)	<i>Luxilus cornutus</i> (common shiner)	<i>Catostomus catostomus</i> (longnose sucker)
01333500	696	0	0	1	0	0	5	3
01348580	79	0	5	0	0	0	0	0
01349150	68	0	6	26	38	9	149	0
01351200	39	0	2	0	0	0	0	0
01356190	0	0	57	8	0	0	5	0
01359135	0	0	0	0	2	0	0	0
01361200	159	4	0	0	0	0	108	0
0136216850	122	0	0	0	0	0	6	0
01362200	203	0	0	0	0	0	0	0
01364970	0	0	0	0	0	0	0	0
01372051	4	0	0	0	0	0	0	0
01372200	373	0	0	0	0	0	29	0
01373690	75	0	0	0	0	0	0	0
01374494	0	0	0	0	0	0	46	0
01374987	1	0	0	0	0	0	0	0
01376500	372	0	0	0	0	0	0	0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SITES

Fish survey results - Hudson River basin--Continued

FISH SPECIES AND TOTAL NUMBER COLLECTED

	CATOSTOMIDAE--cont.			ICTALURIDAE			COTTIDAE	CENTRARCHIDAE	
	<i>Catostomus commersoni</i> (white sucker)	<i>Hypentelium nigricans</i> (northern hog sucker)	<i>Noturus flavus</i> (stone-cat)	<i>Noturus insignis</i> (margined madtom)	<i>Ameiurus natalis</i> (yellow bullhead)	<i>Ameiurus nebulosus</i> (brown bullhead)	<i>Cottus cognatus</i> (slimy sculpin)	<i>Ambloplites rupestris</i> (rockbass)	<i>Lepomis auritus</i> (redbreast sunfish)
01333500	8	0	0	0	0	0	49	0	0
01348580	106	3	3	0	0	0	0	0	0
01349150	3	0	0	117	0	0	0	0	0
01351200	2	0	1	0	0	0	0	7	0
01356190	75	0	0	0	0	0	0	0	0
01359135	6	0	0	0	0	0	0	0	0
01361200	129	0	0	0	0	0	0	0	0
0136216850	25	0	0	0	0	0	0	3	0
01362200	59	0	0	0	0	0	18	0	1
01364970	0	0	0	0	0	0	286	0	0
01372051	22	0	0	0	0	0	0	0	0
01372200	118	0	0	0	3	0	0	14	0
01373690	47	0	0	0	0	0	0	0	0
01374494	35	0	0	0	0	0	0	0	0
01374987	73	0	0	0	3	1	0	0	11
01376500	73	0	0	0	0	0	0	0	32

	CENTRARCHIDAE--cont.				PERCIDAE				
	<i>Lepomis macrochirus</i> (bluegill)	<i>Lepomis gibbosus</i> (pumpkin-seed)	<i>Micropterus dolomieu</i> (smallmouth bass)	<i>Micropterus salmoides</i> (largemouth bass)	<i>Etheostoma olmstedi</i> (tessellated darter)	<i>Etheostoma blennioides</i> (greenside darter)	<i>Etheostoma flabellare</i> (fantail darter)	<i>Perca flavescens</i> (yellow perch)	<i>Percina caprodes</i> (log perch)
01333500	0	0	0	5	0	0	0	0	0
01348580	0	0	117	22	2	0	7	0	9
01349150	0	0	0	0	0	0	0	0	0
01351200	0	13	44	0	0	71	94	0	5
01356190	0	1	0	29	16	0	0	0	0
01359135	0	0	0	0	0	0	0	0	0
01361200	3	1	0	4	84	0	0	0	0
0136216850	0	0	0	4	27	0	0	1	0
01362200	0	0	0	0	2	0	0	0	0
01364970	0	0	0	0	0	0	0	0	0
01372051	0	0	0	0	0	0	0	0	0
01372200	1	1	9	7	0	0	0	0	0
01373690	0	0	0	2	14	0	0	0	0
01374494	0	0	0	14	9	0	0	5	0
01374987	49	11	0	7	13	0	0	1	0
01376500	0	0	0	0	44	0	0	0	0

Surface-water synoptic-sampling studies - Hudson River basin
(National water-quality assessment program)

Thirty-one synoptic sites in the Hudson River basin were sampled during medium flow conditions in June 1994. Pesticide data published in the 1994 annual report (WDR NY-94-1) are republished here because many of the method detection limits were revised after reevaluation of method performance. Revised method detection limits are listed after the NAWQA section Introduction.

STATION NUMBER	STATION NAME	LATITUDE	LONGITUDE	DATE	TIME
01333300	HOOSIC RIVER BELOW WILLIAMSTOWN MA	42 44 28 N	073 12 47 W	06-13-94	1130
01333500	LITTLE HOOSIC RIVER AT PETERSBURG NY	42 45 50 N	073 20 16 W	06-13-94	1540
0134273950	FULMER CREEK AT DAYS ROCK NEAR MOHAWK NY	42 58 10 N	074 57 36 W	06-24-94	0840
01342800	WEST CANADA CREEK AT NOBLEBORO NY	43 23 47 N	074 51 35 W	06-22-94	0900
01346865	NOWADAGA CREEK AT NEWVILLE NY	42 58 39 N	074 49 10 W	06-24-94	1030
01347194	EAST CANADA CREEK AT STRATFORD NY	43 10 47 N	074 41 48 W	06-22-94	1150
01348020	CRUM CREEK AT EAST CREEK NY	43 00 18 N	074 43 47 W	06-21-94	0930
01348040	TIMMERMAN CREEK AT WEST ST. JOHNSVILLE NY	42 59 55 N	074 42 00 W	06-21-94	1300
01348058	ZIMMERMAN CREEK NORTHEAST OF ST. JOHNSVILLE NY	43 00 29 N	074 40 31 W	06-20-94	1500
01348580	CAROGA CREEK AT PALANTINE CHURCH NY	42 58 04 N	074 37 41 W	06-20-94	1200
01348995	OTSQUAGO CREEK AT VALLEY BROOK NR FORT PLAIN NY	42 55 41 N	074 39 38 W	06-23-94	0830
01349240	FLAT CREEK NEAR AMES NY	42 51 09 N	074 31 27 W	06-23-94	1120
01349240	FLAT CREEK NEAR AMES NY	42 51 09 N	074 31 27 W	06-23-94	1128
01350196	WEST KILL NORTHWEST OF NORTH BLENHEIM NY	42 28 18 N	074 27 40 W	06-16-94	0750
01350485	LITTLE SCHOHARIE CREEK AT MIDDLEBURGH NY	42 35 17 N	074 20 12 W	06-16-94	1240
01351200	FOX CREEK NEAR SCHOHARIE NY	42 40 43 N	074 15 16 W	06-14-94	1400
01351270	WEST CREEK AT WARNERSVILLE NY	42 40 05 N	074 31 19 W	06-14-94	0900
01359135	PATROON CREEK AT ALBANY NY	42 39 48 N	073 44 48 W	06-22-94	1115
01359900	COEYMANS C NR SOUTH BETHLEHEM NY	42 32 18 N	073 49 41 W	06-06-94	1015
01360500	KINDERHOOK CREEK AT EAST NASSAU NY	42 30 25 N	073 30 25 W	06-06-94	1445
01361500	CATSKILL CREEK AT OAK HILL NY	42 24 16 N	074 09 07 W	06-17-94	1210
01361500	CATSKILL CREEK AT OAK HILL NY	42 24 16 N	074 09 07 W	06-17-94	1219
01361550	TENMILE CREEK AT MEDUSA NY	42 26 10 N	074 07 58 W	06-17-94	0820
0136216850	ROELIFF JANSEN KILL AT JACKSON CORNERS NY	42 00 43 N	073 44 37 W	06-07-94	1100
0136230005	WOODLAND CREEK AT MOUTH AT PHOENICIA NY	42 04 53 N	074 19 54 W	06-15-94	1415
01364970	RONDOUT CREEK NEAR SUNDOWN, NY	41 54 28 N	074 26 10 W	06-15-94	0930
01372200	WAPPINGER CREEK NEAR CLINTON CORNERS NY	41 48 55 N	073 45 50 W	06-07-94	1440
01372681	FISHKILL CR AT STORMVILLE RD NR HOPEWELL JCT NY	41 35 17 N	073 46 06 W	06-08-94	0840
01373690	WOODBURY C NR HIGHLAND MILLS NY	41 22 00 N	074 06 17 W	06-10-94	1000
01373690	WOODBURY C NR HIGHLAND MILLS NY	41 22 00 N	074 06 17 W	06-10-94	1009
01374300	PEEKSKILL HOLLOW CR AT VAN CORTLANDTVILLE NY	41 19 04 N	073 54 21 W	06-09-94	1610
01374494	HAVILAND HOLLOW BROOK NEAR PUTNAM LAKE NY	41 29 03 N	073 34 16 W	06-08-94	1530
01374960	HALLOCKS MILL BROOK AT YORKTOWN HEIGHTS NY	41 17 04 N	073 46 28 W	06-09-94	1150
01374987	KISCO RIVER BELOW MOUNT KISCO NY	41 13 43 N	073 44 39 W	06-09-94	0820

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SITES

Surface-water synoptic-sampling studies - Hudson River basin--Continued

STATION NUMBER	DATE	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA- ZINE, WATER, DISS, REC, (UG/L) (39632)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)
01333300	06-13-94	<0.002	0.010	<0.003	<0.003	<0.004	<0.002	<0.002	<0.002	<0.002	<0.018	<0.005
01333500	06-13-94	<0.002	0.013	<0.003	<0.003	<0.004	<0.002	<0.002	<0.002	<0.002	<0.018	<0.005
0134273950	06-24-94	<0.002	0.022	<0.003	<0.003	<0.004	<0.002	E0.012	<0.002	0.004	<0.018	<0.005
01342800	06-22-94	<0.002	0.009	<0.003	<0.003	0.012	<0.002	E0.003	<0.002	0.005	<0.018	<0.005
01346865	06-24-94	<0.002	0.024	<0.003	<0.003	<0.004	<0.002	E0.012	<0.002	0.016	<0.018	<0.005
01347194	06-22-94	<0.002	0.007	<0.003	<0.003	<0.004	<0.002	E0.001	<0.002	0.003	<0.018	<0.005
01348020	06-21-94	<0.002	0.027	<0.003	<0.003	<0.004	<0.002	E0.007	<0.002	--	<0.018	<0.005
01348040	06-21-94	<0.002	0.016	<0.003	<0.003	<0.004	<0.002	E0.007	<0.002	0.005	<0.018	<0.005
01348058	06-20-94	<0.002	0.013	<0.003	<0.003	<0.004	<0.002	E0.003	<0.002	0.004	<0.018	<0.005
01348580	06-20-94	<0.002	0.039	<0.003	<0.003	<0.004	<0.002	E0.006	<0.002	0.009	<0.018	<0.005
01348995	06-23-94	<0.002	0.052	<0.003	<0.003	<0.004	<0.002	E0.022	<0.002	0.019	<0.018	<0.005
01349240	06-23-94	<0.002	0.055	<0.003	<0.003	0.094	<0.002	E0.023	<0.002	0.042	<0.018	0.009
01349240	*06-23-94	<0.002	0.054	<0.003	<0.003	0.110	<0.002	E0.025	<0.002	0.041	<0.018	0.009
01350196	06-16-94	<0.002	<0.001	<0.003	<0.003	<0.004	<0.002	<0.002	<0.002	<0.002	<0.018	<0.005
01350485	06-16-94	<0.002	0.017	<0.003	<0.003	<0.004	<0.002	E0.003	0.007	0.015	<0.018	<0.005
01351200	06-14-94	<0.002	0.110	<0.003	<0.003	0.120	<0.002	E0.006	<0.002	0.030	<0.018	<0.005
01351270	06-14-94	0.010	0.055	<0.003	<0.003	0.042	<0.002	E0.009	0.005	0.040	<0.018	E0.004
01359135	06-22-94	<0.002	0.015	<0.003	<0.003	<0.004	<0.002	E0.005	0.056	0.011	<0.018	<0.005
01359900	06-06-94	<0.002	0.013	<0.003	E0.021	<0.004	<0.002	<0.002	0.007	<0.002	<0.018	<0.005
01360500	06-06-94	<0.002	0.013	<0.003	<0.003	<0.004	<0.002	E0.005	<0.002	0.004	<0.018	<0.005
01361500	06-17-94	<0.002	0.005	<0.003	<0.003	<0.004	<0.002	E0.002	0.009	<0.002	<0.018	0.013
01361500	*06-17-94	<0.002	0.004	<0.003	<0.003	<0.004	<0.002	E0.002	0.005	<0.002	<0.018	0.012
01361550	06-17-94	<0.002	0.008	<0.003	<0.003	<0.004	<0.002	E0.002	0.005	0.006	<0.018	<0.005
0136216850	06-07-94	0.016	0.260	<0.003	<0.003	<0.004	<0.002	E0.017	<0.002	0.140	<0.018	0.110
0136230005	06-15-94	<0.002	<0.001	<0.003	<0.003	<0.004	<0.002	<0.002	<0.002	<0.002	<0.018	<0.005
01364970	06-15-94	<0.002	<0.001	<0.003	<0.003	<0.004	<0.002	<0.002	<0.002	<0.002	<0.018	<0.005
01372200	06-07-94	<0.002	0.009	<0.003	<0.003	<0.004	<0.002	E0.005	<0.002	<0.002	<0.018	<0.005
01372681	06-08-94	<0.002	<0.001	<0.003	<0.003	<0.004	<0.002	<0.002	<0.002	<0.002	<0.018	<0.005
01373690	06-10-94	<0.002	0.004	<0.003	<0.003	<0.004	<0.002	<0.002	0.008	<0.002	<0.018	<0.005
01373690	*06-10-94	<0.002	0.006	<0.003	<0.003	<0.004	<0.002	<0.002	0.004	<0.002	<0.018	<0.005
01374300	06-09-94	<0.002	0.006	<0.003	<0.003	<0.004	<0.002	<0.002	0.017	0.005	E0.017	0.014
01374494	06-08-94	<0.002	0.008	<0.003	<0.003	<0.004	<0.002	E0.004	0.006	0.004	<0.018	0.550
01374960	06-09-94	<0.002	0.008	<0.003	<0.003	<0.004	<0.002	<0.002	0.011	0.005	0.021	<0.005
01374987	06-09-94	<0.002	0.005	E0.014	<0.003	<0.004	0.008	<0.002	0.006	<0.002	<0.018	0.052

E Estimate.

* Replicate sample.

Surface-water synoptic-sampling studies - Canajoharie Creek watershed
(National water-quality assessment program)

The Canajoharie Creek watershed was studied intensively as part of the Hudson River basin NAWQA program. Pesticide data published in the 1994 annual report (WDR NY-94-1) are republished here because many of the method detection limits were revised after reevaluation of method performance. Pesticide data from the 1995 water year have not been previously published. Revised method detection limits are listed after the NAWQA section Introduction.

Table 1. Base-flow pesticide synoptic-water year 1995

STATION NUMBER	STATION NAME	DATE
01348995	OTSQUAGO CREEK AT VALLEY BROOK NR FORT PLAIN NY	06-20-95
0134907130	CANAJOHARIE CREEK AT SALT SPRINGVILLE NY	06-22-95
0134907140	SALT SPRING BROOK AT SALT SPRINGVILLE NY	06-20-95
0134907160	CANAJOHARIE CREEK NEAR SPROUT BROOK NY	06-20-95
0134907170	VAN DEUSEN BROOK NEAR SPROUT BROOK NY	06-21-95
0134907173	VAN DEUSEN BROOK AT SPROUT BROOK NY	06-21-95
0134907270	CANAJOHARIE CREEK AT SPROUT BROOK NY	06-19-95
01349073	CANAJOHARIE CREEK AT SOUTH BUEL ROAD NY	06-21-95
01349075	BRIMSTONE CREEK AT SHARON SPRINGS, NY	06-20-95
0134909502	BRIMSTONE CREEK AT AMES NY	06-20-95
01349100	CANAJOHARIE CREEK AT AMES, NY	06-21-95
01349108	CANAJOHARIE CREEK TRIB AT WATERVILLE NY	06-21-95
01349150	CANAJOHARIE CREEK NR CANAJOHARIE NY	06-19-95
01349240	FLAT CREEK NEAR AMES NY	06-20-95
425000074390001	TRI COUNTY CREEK NEAR BUEL	06-21-95
425051074393401	EAST DITCH OUTLET TO CANAJOHARIE CREEK	06-19-95
425051074393701	WEST DITCH OUTLET TO CANAJOHARIE CREEK	06-19-95

STATION NUMBER	DATE	TIME	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)
01348995	06-20-95	1050	0.065	<0.004	E0.022	<0.002	0.025
0134907130	06-22-95	1120	0.010	<0.004	E0.008	<0.002	<0.002
0134907140	06-20-95	1450	0.058	<0.004	E0.035	<0.002	0.005
0134907160	06-20-95	1610	0.026	<0.004	E0.018	<0.002	0.016
0134907170	06-21-95	1110	0.025	<0.004	E0.015	<0.002	<0.002
0134907173	06-21-95	1330	0.030	<0.004	E0.012	<0.002	0.011
0134907270	06-19-95	1050	0.034	0.009	E0.012	--	0.009
01349073	06-21-95	1505	0.042	0.018	E0.022	--	0.023
01349075	06-20-95	1535	0.041	<0.004	<0.002	--	0.016
0134909502	06-20-95	1310	0.046	<0.004	E0.009	--	0.013
01349100	06-21-95	1000	0.049	0.020	E0.018	--	0.018
01349108	06-21-95	1205	0.043	<0.004	E0.052	<0.002	0.018
01349150	06-19-95	1355	0.064	0.015	E0.010	--	0.023
01349240	06-20-95	1000	0.059	0.075	E0.018	--	0.075
425000074390001	06-21-95	1520	0.005	<0.004	E0.003	<0.002	<0.002
425051074393401	06-19-95	1140	0.013	0.035	E0.003	<0.002	--
425051074393701	06-19-95	1330	0.055	0.140	E0.022	<0.002	0.110

Table 2. Miscellaneous surface-water sites-water year 1994

STATION NUMBER	DATE	TIME	ALA- CHLOR, WATER, DISS, REC (UG/L) (46342)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)
0134907270	06-14-94	1740	0.160	10.0	1.90	E0.320	6.70	0.025
0134907270	08-16-94	1000	<0.002	0.110	<0.004	E0.048	0.022	<0.005
0134907280	06-14-94	1930	0.170	10.0	1.70	E0.310	6.40	0.025
0134907280	08-16-94	1330	<0.002	0.110	<0.004	E0.044	0.024	<0.005

E Estimate.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SITES
Surface-water synoptic-sampling studies - Canajoharie Creek watershed--Continued

Table 3. Miscellaneous surface-water sites-water year 1995

STATION NUMBER	STATION NAME	DATE	TIME
0134907270	CANAJOHARIE CREEK AT SPROUT BROOK NY	05-11-95	1050
0134907270	CANAJOHARIE CREEK AT SPROUT BROOK NY	05-16-95	0910
0134907270	CANAJOHARIE CREEK AT SPROUT BROOK NY	05-23-95	1220
0134907270	CANAJOHARIE CREEK AT SPROUT BROOK NY	05-30-95	1210
0134907270	CANAJOHARIE CREEK AT SPROUT BROOK NY	06-03-95	1825
0134907270	CANAJOHARIE CREEK AT SPROUT BROOK NY	06-07-95	1030
0134907270	CANAJOHARIE CREEK AT SPROUT BROOK NY	06-12-95	1220
0134907270	CANAJOHARIE CREEK AT SPROUT BROOK NY	06-19-95	1050
0134907270	CANAJOHARIE CREEK AT SPROUT BROOK NY	06-27-95	1015
0134907270	CANAJOHARIE CREEK AT SPROUT BROOK NY	07-18-95	1420

STATION NUMBER	DATE	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	METO- LACHLOR WATER (UG/L) (39415)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
0134907270	05-11-95	0.019	<0.004	E0.010	<0.002	0.008	<0.003	<0.010
0134907270	05-16-95	0.022	0.011	E0.015	0.004	0.010	<0.003	<0.010
0134907270	05-23-95	0.027	0.013	E0.014	--	0.008	<0.003	<0.010
0134907270	05-30-95	0.072	0.016	E0.019	<0.002	0.026	<0.003	<0.010
0134907270	06-03-95	0.017	<0.004	E0.020	<0.002	0.026	<0.003	0.013
0134907270	06-07-95	0.058	0.020	E0.013	<0.002	0.019	<0.003	<0.010
0134907270	06-12-95	0.074	0.012	E0.014	--	0.022	<0.003	<0.010
0134907270	06-19-95	0.034	0.009	E0.012	--	0.009	<0.003	<0.010
0134907270	06-27-95	0.053	<0.004	E0.019	<0.002	0.011	<0.003	<0.010
0134907270	07-18-95	0.025	<0.004	E0.021	<0.002	0.005	0.004	<0.010

E Estimate.

QUALITY OF GROUND WATER

387

Agricultural land-use survey (National water-quality assessment program)

The agricultural land-use survey was designed to examine the effects of agricultural land use on shallow ground-water quality. Pesticide data published in the 1993 and 1994 annual reports (WDR NY-93-1 and NY-94-1) are republished here because many of the method detection limits were revised after reevaluation of method performance. Revised method detection limits are listed after the NAWQA section Introduction.

Water year 1993

STATION NUMBER	DATE	TIME	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DEETHYL ATRA- ZINE, WATER, DISS, REC (04040)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)
			MONTGOMERY COUNTY			
425031074402301	09-02-93	1300	0.007	<0.004	<0.002	<0.002
425031074402302	09-02-93	1130	<0.001	<0.004	<0.002	<0.002
425033074400901	09-07-93	1300	0.037	<0.004	E0.026	<0.002
425033074403401	09-07-93	1630	0.001	<0.004	<0.002	<0.002
425048074393401	09-02-93	1615	<0.001	0.057	<0.002	0.120
425056074393401	09-03-93	1200	<0.001	<0.004	<0.002	0.007
*425056074393401	09-03-93	1201	<0.001	<0.004	<0.002	<0.002

Water year 1994

STATION NUMBER	DATE	TIME	DEETHYL			
			ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)
MONTGOMERY COUNTY						
424920074395301	08-04-94	1530	<0.001	<0.002	<0.002	<0.004
425022074374601	08-02-94	1000	<0.001	<0.002	<0.002	<0.004
425039074384601	08-01-94	1300	<0.001	<0.002	<0.002	<0.004
425041074383801	08-01-94	1600	<0.001	<0.002	<0.002	<0.004
425559074251301	07-21-94	1500	0.420	E0.019	0.005	0.022
425612074252501	07-21-94	1130	0.004	<0.002	0.002	<0.004
425623074254001	07-20-94	1130	1.70	E0.780	<0.002	<0.004
425629074252501	07-20-94	1500	0.005	<0.002	<0.002	<0.004
ONEIDA COUNTY						
425506075231901	07-27-94	0930	<0.001	<0.002	<0.002	<0.004
425817075164401	07-26-94	1000	0.004	<0.002	0.003	<0.004
425938075183501	07-25-94	1430	0.010	E0.004	0.002	<0.004
430124075153501	07-26-94	1500	0.038	E0.034	0.016	<0.004

E Estimate.

* Replicate sample.

QUALITY OF GROUND WATER

Urban land-use survey
(National water-quality assessment program)

The urban land-use survey was designed to examine the effects of urban land use on shallow ground-water quality. Pesticide data published in the 1993 and 1994 annual reports (WDR NY-93-1 and NY-94-1) are republished here because many of the method detection limits were revised after reevaluation of method performance. Revised method detection limits are listed after the NAWQA section Introduction.

Water year 1993

STATION NUMBER	DATE	TIME	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)
ALBANY COUNTY				
424232073514901	07-20-93	0930	<0.001	<0.002
*424232073514901	07-20-93	0931	<0.001	<0.002
424232073515002	07-20-93	1130	<0.001	<0.002
424233073485601	07-14-93	1015	<0.001	<0.002
424356073502201	07-15-93	1045	<0.001	<0.002
424458073513701	07-14-93	1315	<0.001	<0.002
424458073513701	08-31-93	1445	<0.001	<0.002
SARATOGA COUNTY				
424846073592301	09-01-93	1030	<0.001	<0.002
424846073592302	07-16-93	1030	<0.001	<0.002
SCHENECTADY COUNTY				
424554074000101	07-21-93	0930	<0.001	<0.002
424644073524601	08-31-93	1115	<0.001	<0.002
*424644073524601	08-31-93	1116	<0.001	<0.002
424744073592301	07-21-93	1300	<0.001	<0.002
DUTCHESS COUNTY				
414723073320601	08-25-93	1445	0.013	E0.015

Water year 1994

STATION NUMBER	DATE	TIME	DI- AZINON, DIS- SOLVED (UG/L) (39572)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)
SARATOGA COUNTY				
424942073474401	07-19-94	1130	<0.002	<0.002
425048073472501	07-18-94	1200	<0.002	<0.002
425102073465901	07-18-94	1600	<0.002	<0.002
425447073485801	08-23-94	1130	0.006	0.004

* Replicate sample.
E Estimate.

QUALITY OF GROUND WATER

389

Study-unit survey (National water-quality assessment program)

The study-unit survey was designed to examine the ground-water quality of wells across the Mohawk and Hudson River basins. Pesticide data from the 1995 water year have not been previously published. Analyses for other constituents were published in the 1995 annual report (WDR NY-95-1).

STATION NUMBER	DATE	TIME	ATRA-	DEETHYL	DI-	MALA-	PRO-
			ZINE, WATER, DISS, REC (UG/L) (39632)	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)			
					SOLVED (UG/L) (39572)	THION, DIS- SOLVED (UG/L) (39532)	METON, WATER, DISS, REC (UG/L) (04037)
ALBANY COUNTY							
422846073593501	11-28-94	1530	<0.001	<0.002	<0.002	<0.005	<0.018
422950073591201	11-16-94	1200	<0.001	<0.002	<0.002	<0.005	<0.018
423241074064901	11-28-94	1300	<0.001	<0.002	<0.002	<0.005	<0.018
423416073553201	11-16-94	0930	<0.001	<0.002	<0.002	<0.005	<0.018
423847074043701	11-28-94	1030	<0.001	<0.002	0.007	<0.005	<0.018
423851073545201	11-16-94	1430	<0.001	<0.002	<0.002	<0.005	<0.018
424429073585801	11-17-94	1000	<0.001	<0.002	<0.002	<0.005	<0.018
424354073532101	11-17-94	1230	<0.001	<0.002	<0.002	<0.005	<0.018
COLUMBIA COUNTY							
421130073412001	11-14-94	1430	<0.001	<0.002	<0.002	<0.005	<0.018
421150073353001	11-14-94	1130	<0.001	<0.002	<0.002	<0.005	<0.018
421909073382001	11-15-94	1200	<0.001	<0.002	<0.002	<0.005	<0.018
422415073251001	11-18-94	1400	<0.001	<0.002	<0.002	<0.005	<0.018
422554073415601	11-15-94	0900	<0.001	<0.002	<0.002	<0.005	<0.018
422753073240501	11-18-94	1130	<0.001	<0.002	<0.002	<0.005	<0.018
*422753073240501	11-18-94	1135	<0.001	<0.002	<0.002	<0.005	<0.018
HERKIMER COUNTY							
**425659075013001	10-20-94	1530	0.003	E0.010	<0.002	<0.005	<0.018
425837074475101	10-19-94	1400	<0.001	<0.002	<0.002	<0.005	<0.018
430302074462601	10-20-94	1000	<0.001	<0.002	<0.002	<0.005	<0.018
**430328074461501	10-20-94	1230	<0.001	<0.002	<0.002	<0.005	<0.018
430536075034501	10-21-94	0930	<0.001	<0.002	0.004	<0.005	<0.018
430549075031701	11-02-94	1430	<0.001	<0.002	<0.002	<0.005	<0.018
431157075015601	10-21-94	1300	<0.001	<0.002	<0.002	<0.005	<0.018
MONTGOMERY COUNTY							
425235074204401	10-27-94	0900	<0.001	<0.002	<0.002	<0.005	<0.018
425454074322101	10-25-94	1430	<0.001	E0.002	<0.002	<0.005	<0.018
425502074260601	10-27-94	1200	<0.001	<0.002	<0.002	<0.005	<0.018
425515074254201	10-24-94	1430	<0.001	<0.002	<0.002	<0.005	<0.018
425535074341501	11-03-94	1530	<0.001	<0.002	<0.002	<0.005	<0.018
425545074185601	10-25-94	0900	<0.001	<0.002	<0.002	<0.005	<0.018
425545074185602	10-25-94	1130	<0.001	<0.002	<0.002	<0.005	0.068
425657074174101	10-26-94	0900	<0.001	<0.002	<0.002	<0.005	<0.018
425716074294901	10-27-94	1400	<0.001	<0.002	<0.002	<0.005	<0.018
425731074172901	10-28-94	0830	0.014	<0.002	<0.002	<0.005	<0.018
425813074304201	11-03-94	1230	<0.001	<0.002	<0.002	<0.005	E0.010
425851074085801	11-03-94	0930	<0.001	<0.002	<0.002	<0.005	<0.018
425129074303501	10-26-94	1200	<0.001	<0.002	<0.002	<0.005	<0.018
*425129074303501	10-26-94	1205	<0.001	<0.002	<0.002	<0.005	<0.018
ONEIDA COUNTY							
430001075131401	10-19-94	0930	<0.001	<0.002	<0.002	0.009	<0.018
430158075154401	10-17-94	1330	<0.001	<0.002	0.015	0.007	<0.018
430532075281101	10-18-94	1030	<0.001	<0.002	<0.002	<0.005	<0.018
431212075191501	10-18-94	1500	<0.001	<0.002	<0.002	0.013	<0.018

* Replicate sample.

E Estimate.

** Spring.

QUALITY OF GROUND WATER

Study-unit survey--Continued

STATION NUMBER	DATE	TIME	DEETHYL				
			ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	MALA- THION, DIS- SOLVED (UG/L) (39532)	PRO- METON, WATER, DISS, REC (UG/L) (04037)
ORANGE COUNTY							
411631074284201	12-01-94	1230	--	--	--	--	--
411728074100001	11-30-94	0930	<0.001	<0.002	<0.002	<0.005	<0.018
411748074195601	12-01-94	0900	<0.001	<0.002	<0.002	<0.005	<0.018
411938073595201	11-30-94	1500	<0.001	<0.002	<0.002	<0.005	1.30
411939073595301	11-30-94	1300	<0.001	<0.002	<0.002	<0.005	0.230
412536074324301	12-01-94	1500	<0.001	<0.002	<0.002	<0.005	<0.018
413016074282101	11-29-94	0900	<0.001	<0.002	<0.002	<0.005	<0.018
413050074084101	11-29-94	1200	<0.001	<0.002	<0.002	<0.005	0.075
413205074145101	11-29-94	1400	<0.001	<0.002	<0.002	<0.005	<0.018
413400074212701	12-02-94	0900	<0.001	<0.002	<0.002	<0.005	<0.018
RENSSELAER COUNTY							
424051073414501	09-21-95	1200	<0.001	<0.002	<0.002	<0.005	<0.018
SCHENECTADY COUNTY							
425217074061401	11-04-94	1000	<0.001	<0.002	<0.002	<0.005	<0.018
WESTCHESTER COUNTY							
411030073392701	08-30-95	0850	<0.001	<0.002	<0.002	<0.005	<0.018

QUALITY OF GROUND WATER

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Flowpath study (National water-quality assessment program)

The flowpath study was designed to examine the relation between water quality and land use in greater detail than possible in the land-use surveys. The pesticide data published in the 1994 annual report (WDR NY-94-1) are republished here because many of the method detection limits were revised after reevaluation of method performance. The pesticide data from 1995 water year have not been previously published. Revised method detection limits are listed after the NAWQA section Introduction.

GROUND-WATER WELLS

STATION NUMBER	DATE	TIME	DEETHYL				
			ATRA-	CYANA-	ATRA-		
			ZINE,	ZINE,	ZINE,	DI-	METO-
			WATER,	WATER,	WATER,	AZINON,	LACHLOR
			DISS,	DISS,	DISS,	DIS-	WATER
REC	REC	REC	SOLVED	DISSOLV			
(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)			
(39632)	(04041)	(04040)	(39572)	(39415)			
MONTGOMERY COUNTY							
425027074400801	08-05-94	1400	<0.001	<0.004	<0.002	<0.002	<0.002
425027074403801	08-05-94	1030	<0.001	<0.004	<0.002	<0.002	<0.002
425031074393901	08-03-94	1030	<0.001	<0.004	<0.002	<0.002	<0.002
425033074395501	07-27-94	1430	0.006	<0.004	E0.005	<0.002	<0.002
425033074400001	07-22-94	1500	<0.001	<0.004	<0.002	<0.002	0.002
425034074415001	07-22-94	1130	0.009	0.012	E0.007	0.003	0.007
425048074393402	07-28-94	1030	<0.001	<0.004	<0.002	<0.002	<0.002
425050074393501	07-28-94	1400	<0.001	<0.004	<0.002	<0.002	<0.002
425053074402301	06-17-94	1100	<0.001	<0.004	E0.005	<0.002	<0.002
425054074395101	06-16-94	1130	<0.001	<0.004	E0.009	<0.002	<0.002
425054074395101	08-17-94	1330	<0.001	<0.004	<0.002	<0.002	0.003
425054074395102	08-03-94	1400	<0.001	<0.004	<0.002	<0.002	<0.002

TILE DRAINS AND MINIPERIZOMETER SITES

STATION NUMBER	DATE	TIME	DEETHYL						MOL-	TEBU-	
			ACETO-	ATRA-	CYANA-	ATRA-	DI-	METO-	METRI-	INATE	THIURON
			CHLOR,	ZINE,	ZINE,	ZINE,			BUZIN	WATER	THIURON
			WATER,	WATER,	WATER,	WATER,			WATER	WATER	WATER
			FLTRD	DISS,	DISS,	DISS,			WATER	FLTRD	FLTRD
REC	REC	REC	REC	SOLVED	DISSOLV	DISSOLV	GF, REC	GF, REC			
(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)			
(49260)	(39632)	(04041)	(04040)	(39572)	(39415)	(82630)	(82671)	(82670)			
MONTGOMERY COUNTY											
425027074395901	05-11-94	1300	--	<0.001	<0.004	<0.002	<0.002	<0.002	<0.004	0.110	0.014
425029074400001	09-15-94	0930	<0.002	0.150	<0.004	E0.042	<0.002	0.017	<0.004	<0.004	<0.010
425030074393901	05-11-94	1030	--	<0.001	<0.004	<0.002	<0.002	0.025	<0.004	<0.004	<0.010
*425030074400001	08-18-94	1000	--	0.029	0.026	E0.028	<0.002	0.016	<0.004	<0.004	<0.010
*425030074400001	08-31-94	1500	--	0.034	<0.004	E0.026	<0.002	0.014	<0.004	<0.004	<0.010
425036074393901	09-14-94	1200	<0.002	0.035	<0.004	E0.011	<0.002	<0.002	<0.004	<0.004	<0.010
425036074395001	09-14-94	1430	<0.002	<0.001	<0.004	<0.002	<0.002	0.007	<0.004	<0.004	<0.010
*425041074393201	09-01-94	0930	--	0.016	0.008	E0.005	<0.002	0.009	<0.004	<0.004	<0.010
425045074394801	09-16-94	1000	<0.002	<0.001	<0.004	<0.002	<0.002	0.006	<0.004	<0.004	<0.010
425046074394501	08-31-94	1130	--	0.059	0.015	E0.043	<0.002	0.120	0.007	<0.004	<0.010
425046074400201	05-11-94	1200	--	0.009	<0.004	E0.011	0.004	0.023	<0.004	<0.004	<0.010
425051074393201	09-01-94	1030	--	0.110	0.007	E0.012	0.002	0.017	<0.004	<0.004	<0.010

E Estimate.

* Tile drains.

QUALITY OF GROUND WATER

Flowpath study--Continued

TILE DRAINS

STATION NUMBER	DATE	TIME	ALA- CHLOR, DISS, REC, (UG/L) (46342)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	PEB- ULATE WATER 0.7 U GF, REC (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (82683)
			MONTGOMERY COUNTY								
425030074393901	05-16-95	1140	<0.002	0.004	<0.004	E0.003	<0.002	0.014	<0.004	<0.004	<0.004
425030074393901	05-23-95	1010	<0.002	<0.001	0.019	<0.002	<0.002	0.024	<0.004	<0.004	0.096
425030074393901	05-30-95	1220	<0.002	0.007	<0.004	E0.004	<0.002	0.017	<0.004	<0.004	<0.004
425030074393901	06-03-95	1350	<0.002	0.780	0.310	E0.065	0.055	0.180	0.042	<0.004	<0.004
425030074393901	06-07-95	1450	<0.002	<0.001	<0.004	E0.009	<0.002	0.030	<0.004	<0.004	<0.004
425030074393901	06-12-95	1540	<0.002	0.009	<0.004	E0.005	<0.002	0.022	<0.004	<0.004	<0.004
425030074393901	06-19-95	1510	<0.002	0.007	<0.004	E0.004	<0.002	0.015	<0.004	<0.004	<0.004
425030074393901	06-27-95	1000	<0.002	0.006	<0.004	E0.005	<0.002	0.011	<0.004	<0.004	<0.004
425030074400001	05-16-95	1300	0.020	0.023	<0.004	E0.025	<0.002	0.014	<0.004	<0.004	<0.004
425030074400001	05-23-95	0920	<0.002	0.023	<0.004	E0.028	<0.002	0.010	<0.004	0.005	<0.004
425030074400001	05-30-95	0850	<0.002	0.025	0.041	E0.030	<0.002	0.010	<0.004	<0.004	0.020
425030074400001	06-03-95	1320	<0.002	0.026	<0.004	E0.021	<0.002	0.009	<0.004	<0.004	<0.004
425030074400001	06-07-95	1530	<0.002	0.029	<0.004	E0.023	<0.002	0.016	<0.004	<0.004	<0.004
425030074400001	06-12-95	1710	<0.002	0.027	<0.004	E0.027	<0.002	0.010	<0.004	<0.004	<0.004
425030074400001	06-19-95	1650	<0.002	0.032	<0.004	E0.032	<0.002	0.013	<0.004	<0.004	<0.004
425030074400001	06-27-95	1510	<0.002	0.036	<0.004	E0.035	<0.002	0.011	<0.004	<0.004	<0.004
425031074394001	06-03-95	1930	<0.002	1.30	0.120	E0.065	0.066	0.410	<0.004	<0.004	<0.004
425031074394001	06-07-95	0940	<0.002	0.025	0.160	E0.013	<0.002	0.095	<0.004	<0.004	0.023
425031074394001	06-12-95	1200	<0.002	0.024	0.072	E0.011	<0.002	0.059	<0.004	<0.004	0.018
425031074394001	06-19-95	1040	<0.002	0.024	0.054	E0.010	<0.002	0.066	<0.004	<0.004	<0.004
425041074393201	06-07-95	1020	<0.002	0.018	0.300	E0.007	<0.002	0.008	<0.004	<0.004	0.039
425041074393201	06-12-95	1620	<0.002	0.012	0.160	E0.004	<0.002	0.006	<0.004	<0.004	0.020
425041074393201	06-19-95	1000	<0.002	0.015	0.150	E0.006	<0.002	0.009	<0.004	<0.004	<0.004
425041074393201	06-27-95	1050	<0.002	0.015	0.087	E0.006	<0.002	0.010	<0.004	<0.004	0.024

DRAINAGE DITCHES--Water year 1994

STATION NUMBER	DATE	TIME	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)
			MONTGOMERY COUNTY					
425014074395901	05-10-94	1130	<0.001	<0.004	<0.002	0.004	<0.002	<0.004
425026074395901	08-18-94	1445	2.10	0.014	E0.370	<0.002	0.006	<0.004
425027074394101	08-16-94	1630	<0.001	<0.004	<0.002	<0.002	<0.002	<0.004
425032074393901	08-15-94	1230	0.003	<0.004	<0.002	0.003	0.003	<0.004
425032074393901	08-18-94	1230	1.70	0.025	E0.330	<0.002	0.015	<0.004
425040074393201	05-10-94	1500	<0.001	<0.004	<0.002	<0.002	<0.002	<0.004
425047074394501	08-15-94	1630	0.076	0.390	E0.043	0.002	0.300	<0.004
425051074393401	05-10-94	1300	0.021	<0.004	E0.011	<0.002	0.008	<0.004
425051074393401	08-15-94	1430	0.004	<0.004	E0.001	0.007	0.004	0.005

E Estimate.

QUALITY OF GROUND WATER

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Flowpath study--Continued

DRAINAGE DITCHES-Water year 1995

STATION NUMBER	DATE	TIME	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA- ZINE, WATER, DISS, REC (39632)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (04041)	DEETHYL ATRA- ZINE, WATER, DISS, REC (04040)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (82683)
MONTGOMERY COUNTY										
425026074395901	05-30-95	1440	<0.002	0.014	<0.004	0.007	E0.010	0.010	<0.004	0.028
425026074395901	06-03-95	1910	<0.002	0.028	<0.004	<0.004	E0.036	0.013	<0.004	<0.004
425026074395901	06-07-95	1620	<0.002	0.016	<0.004	0.009	E0.008	0.008	<0.004	<0.004
425026074395901	06-12-95	1750	<0.002	0.016	<0.004	<0.004	E0.006	0.006	<0.004	<0.004
425026074395901	06-19-95	1620	<0.002	0.014	<0.004	<0.004	E0.007	0.003	<0.004	<0.004
425030074400001	05-16-95	1300	0.020	0.023	<0.004	<0.004	E0.025	0.014	<0.004	<0.004
425030074400001	05-23-95	0920	<0.002	0.023	<0.004	<0.004	E0.028	0.010	0.005	<0.004
425030074400001	05-30-95	0850	<0.002	0.025	<0.004	0.041	E0.030	0.010	<0.004	0.020
425030074400001	06-03-95	1320	<0.002	0.026	<0.004	<0.004	E0.021	0.009	<0.004	<0.004
425030074400001	06-07-95	1530	<0.002	0.029	<0.004	<0.004	E0.023	0.016	<0.004	<0.004
425030074400001	06-12-95	1710	<0.002	0.027	<0.004	<0.004	E0.027	0.010	<0.004	<0.004
425030074400001	06-19-95	1650	<0.002	0.032	<0.004	<0.004	E0.032	0.013	<0.004	<0.004
425030074400001	06-27-95	1510	<0.002	0.036	<0.004	<0.004	E0.035	0.011	<0.004	<0.004
425032074393901	05-16-95	1400	<0.002	0.010	<0.004	0.032	E0.006	0.006	<0.004	<0.004
425032074393901	05-23-95	1500	<0.002	<0.001	<0.004	0.150	<0.002	0.009	<0.004	0.035
425032074393901	05-30-95	1340	<0.002	0.019	<0.004	0.140	E0.006	0.026	<0.004	0.051
425032074393901	06-07-95	1420	<0.002	<0.001	<0.004	0.061	<0.002	0.022	<0.004	<0.004
425032074393901	06-12-95	1510	<0.002	0.016	<0.004	0.012	E0.004	0.011	<0.004	<0.004
425032074393901	06-19-95	1440	<0.002	0.009	<0.004	0.010	E0.002	0.005	<0.004	<0.004
425032074393901	06-27-95	1410	<0.002	0.006	<0.004	0.006	E0.003	0.005	<0.004	<0.004
425051074393401	05-16-95	0900	<0.002	0.011	<0.004	1.10	E0.007	0.310	<0.004	0.380
425051074393401	05-23-95	1230	<0.002	0.019	<0.004	0.210	E0.007	0.007	<0.004	0.093
425051074393401	05-30-95	1045	<0.002	0.021	0.014	0.260	E0.005	0.065	<0.004	0.150
425051074393401	06-07-95	1120	<0.002	0.026	<0.004	0.330	E0.011	0.021	<0.004	0.035
425051074393401	06-12-95	1310	<0.002	0.016	<0.004	0.061	E0.005	0.015	<0.004	0.037
425051074393401	06-19-95	1140	<0.002	0.013	<0.004	0.035	E0.003	--	<0.004	<0.004
425051074393401	06-27-95	1140	<0.002	0.012	<0.004	0.019	E0.005	0.007	<0.004	<0.004
425051074393701	05-16-95	1030	<0.002	0.044	<0.004	1.10	E0.031	0.300	<0.004	0.140
425051074393701	05-23-95	1345	<0.002	0.052	<0.004	0.330	E0.029	0.140	<0.004	0.072
425051074393701	05-30-95	0950	<0.002	0.053	0.017	0.260	E0.026	0.210	<0.004	0.180
425051074393701	06-07-95	1210	<0.002	0.052	<0.004	0.140	E0.022	0.120	<0.004	0.017
425051074393701	06-12-95	1400	<0.002	0.051	<0.004	0.110	E0.019	0.120	<0.004	0.042
425051074393701	06-19-95	1330	<0.002	0.055	<0.004	0.140	E0.022	0.110	<0.004	<0.004
425051074393701	06-27-95	1240	<0.002	0.060	<0.004	0.130	E0.030	0.110	<0.004	<0.004

E Estimate.

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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.

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