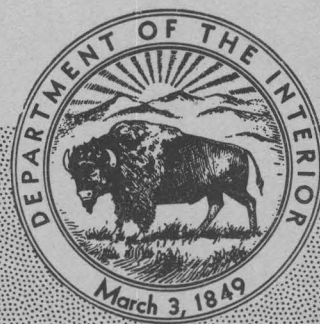


GEOLOGICAL SURVEY CIRCULAR 384



INDEX OF SURFACE-WATER RECORDS
TO SEPTEMBER 30, 1955

PART 4.—ST. LAWRENCE RIVER BASIN

UNITED STATES DEPARTMENT OF THE INTERIOR
Fred A. Seaton, *Secretary*

GEOLOGICAL SURVEY
Thomas B. Nolan, *Director*

GEOLOGICAL SURVEY CIRCULAR 384

INDEX OF SURFACE-WATER RECORDS TO SEPTEMBER 30, 1955

PART 4.—ST. LAWRENCE RIVER BASIN

By C. E. Knox

Washington, D. C., 1956

Free on application to the Geological Survey, Washington 25, D. C.

INDEX OF SURFACE-WATER RECORDS TO SEPTEMBER 30, 1955

PART 4.—ST. LAWRENCE RIVER BASIN

By C. E. Knox

EXPLANATION

This index lists the streamflow and reservoir stations in the St. Lawrence River basin for which records have been or are to be published in reports of the Geological Survey for periods prior to September 30, 1955. Periods of record for the same station published by other agencies are listed only when they contain more detailed information or are for periods not reported in publications of the Geological Survey.

The stations are listed in the downstream order first adopted for use in the 1951 series of water-supply papers on surface-water supply of the United States. Starting at the headwater of each stream all stations are listed in a downstream direction. Tributary streams are indicated by indention and are inserted between main-stem stations in the order in which they enter the main stream. To indicate the rank of any tributary on which a record is available and the stream to which it is immediately tributary, each indention in the listing of stations represents one rank. A stream name only is inserted where necessary for the purpose of showing the proper rank or order of tributaries.

Station names are given in their most recently published forms. Parentheses around part of a station name indicate that the enclosed word or words were used in an earlier published name of the station or in a name under which records were published by some agency other than the Geological Survey.

The drainage areas, in square miles, are the latest figures published or otherwise available at this time. Drainage areas that were obviously inconsistent with other drainage areas on the same stream have been omitted.

Under "period of record" breaks of less than a 12-month period are not shown. A dash not followed immediately by a closing date shows that the station was continued in operation beyond September 30, 1955. The years given are calendar years. All periods of record not contained in water-supply papers on surface-water supply of the United States are indicated by appropriate footnotes.

Records both of gage height and of discharge are listed for streamflow stations, and records of gage height and of contents (or of change in contents) are listed for stations on reservoirs. Records of gage heights only and records consisting only of monthly figures either of streamflow or reservoir contents are designated by symbols and footnotes. For early years when daily discharges were not generally published by the Geological Survey, published daily gage heights and a published rating table were considered to be equivalent to daily discharges.

An alphabetical index of streams, canals, and reservoirs is given on pages 13 to 15.

<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
<u>Streams tributary to Lake Superior</u>		
Pigeon River above mouth of Arrow River, Minn.....	256	1924-27.
Pigeon River at Middle Falls, below International Bridge (at International Bridge), Minn.....	600	(1921-23) ^b ; (1923- 32) ^c ; 1924-
Brule River at mouth, near Hoveland, Minn.....	248	1911*.
Devil Track River at mouth, near Grand Marais, Minn.....	77	1911*.
Cascade River at mouth, near Grand Marais, Minn.....	111	1911*.
Poplar River at Lutsen, Minn.....	114	1911-12*; 1913-17; 1928-47; 1952-
Cross River at Schroeder, Minn.....	a/91	1931-32.
Baptism River:		
Egge Lake near Finland, Minn.....	-	1938-40*.
Lepannen Lake at Finland, Minn.....	-	1938-40*.
Baptism River near Beaver Bay, Minn.....	140	1928-29; 1930-47; 1949-
Beaver Creek (Beaver Bay River) at Beaver Bay, Minn.....	126	1911-14; 1928-31 ^d /.
St. Louis River:		
Partridge River:		
Second Creek near Aurora, Minn.....	-	1955-
Partridge River near Aurora, Minn.....	156	1942-
St. Louis River near Aurora, Minn.....	312	1942-
Embarrass River at Embarrass, Minn.....	93.8	1942-
Esquagama Lake near Blwabik, Minn.....	-	1937-40*.
Embarrass River near McKinley, Minn.....	-	1953-
Otter River:		
Ely Lake near Eveleth, Minn.....	-	1939-40*.
West Two River near Iron Junction, Minn.....	-	1953-
West Swan River:		
East Swan River near Toivola, Minn.....	112	1953-
Swan River near Toivola, Minn.....	254	1952-
Whiteface River at Meadowlands, Minn.....	453	1909-12.
Whiteface River below Meadowlands, Minn.....	453	1912-17.
Stoney Brook:		
Perch Lake near Sawyer, Minn.....	-	1938-40*.
Cloquet River:		
Pequaywan Lake near Brimson, Minn.....	-	1938-40*.
Smith Lake near Brimson, Minn.....	-	1939-40*.
Cloquet River at Independence, Minn.....	a/750	1909-17.
St. Louis River near Cloquet, Minn.....	3,400	1903*.
St. Louis River at Scanlon (at Thomson), Minn.....	3,570	1909-15; 1950-
Amnicon Lake (head of Amnicon River) near South Range, Wis...	5	1936*.
Amnicon River near Amnicon Falls, Wis.....	102	1914-16.
Bois Brule River at Brule, Wis.....	113	1943-
Bois Brule (Brule) River near Brule, Wis.....	153	1914-17.
Bad River at Mellen, Wis.....	101	1948-55.
Bad River near Odanah, Wis.....	611	1914-22; 1948-
White River near Ashland, Wis.....	269	1948-
Montreal River at Ironwood, Mich.....	a/66	1918-22; 1924-25; 1949-54.
Montreal River near Kimball, Wis.....	a/109	1924-25.
West Branch Montreal River at Gile, Wis.....	a/78	1918-25; 1942-47.
West Branch Montreal River near Kimball, Wis.....	a/96	1924-25.
Montreal River near Saxon, Wis.....	a/281	1938-
Black River at Ramsay, Mich.....	82	1924-25.
Black River near Bessemer, Mich.....	202	1954-
Presque Isle River at Marenisco, Mich.....	175	1945-
Presque Isle River near Tula, Mich.....	260	1945-
Iron River near White Pine, Mich.....	100	1952-
Middle Branch Ontonagon River near Paulding, Mich.....	175	1942-
Bond Falls Reservoir:		
Bond Falls Canal near Paulding, Mich.....	-	1942-
Bond Falls Reservoir near Paulding, Mich.....	210	1942-+
Middle Branch Ontonagon River near Trout Creek, Mich.....	225	1942-
East Branch Ontonagon River near Mass, Mich.....	265	1942-

* Gage heights or gage heights and discharge measurements only.

† Monthly figures of discharge or contents only.

a/ Approximately.

b/ In reports of Dominion Water and Power Bureau.

c/ In House Document 92, 73rd Congress of the United States, 1st Session.

d/ In House Document 226, 72nd Congress of the United States, 1st Session.

<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
<u>Streams tributary to Lake Superior--Continued</u>		
Middle Branch Ontonagon River near Rockland, Mich.....	a/670	1942-
West Branch Ontonagon River near Bergland, Mich.....	a/160	1942-
South Branch Ontonagon River:		
Mamie Lake near Land O' Lakes, Wis.....	18	1938-40*.
Big Lake near Land O' Lakes, Wis.....	32	1938-45*.
Cisco Branch Ontonagon River at		
Cisco Lake Outlet, Mich.....	a/50	1944-
Cisco Branch Ontonagon River near Watersmeet, Mich.....	57	1942-44.
Palmer Lake near Land O' Lakes, Wis.....	15	1938-40*.
Tenderfoot Lake near Land O' Lakes, Wis.....	19	1938-40*.
South Branch Ontonagon River at Ewen, Mich.....	320	1942-
Ontonagon River near Rockland, Mich.....	a/1,290	1942-
Sturgeon River near Sidnaw (at Old Timber Dam), Mich.....	155	1912-15; 1943-
Perch River near Sidnaw, Mich.....	60	1912-15.
Sturgeon River near Alston (at Prickett Dam), Mich.....	346	(1932-41)e/; 1947-
Sturgeon River near Baraga (at Highway 35 Bridge), Mich.....	374	(1927-31)e/; 1942-47.
Otter River near Elo, Mich.....	175	1942-
Sturgeon River near Arnheim, Mich.....	680	1942-
Dead River near Negaunee, Mich.....	138	1902-3.
Dead River at Forestville, Mich.....	158	1898-1902.
Carp River near Marquette, Mich.....	86	1902-3.
Tahquamenon River at Newberry, Mich.....	200	1934-36.
Tahquamenon River near Tahquamenon Paradise, Mich.....	790	1953-
<u>Streams tributary to Lake Michigan</u>		
Black River near Garnet, Mich.....	a/28	1951-
South Manistique Lake Outlet (head of Manistique River)		
at Curtis, Mich.....	a/44	1942-44.
North Manistique Lake Outlet at Helmer, Mich.....	a/15	1942-44.
Manistique River near Germfask, Mich.....	a/120	1942-50.
Fox River at Seney, Mich.....	a/107	1942-44.
East Branch Fox River near Germfask, Mich.....	a/104	1942-44.
Holland Creek near Seney, Mich.....	a/13	1938-42.
Manistique River at Germfask, Mich.....	341	1938-
Goose Pen Outlet at Germfask, Mich.....	-	1939-41.
Grays Creek near Germfask, Mich.....	a/36	1938-40.
Pine Creek near Germfask, Mich.....	a/11	1938-40.
Sand Creek near Germfask, Mich.....	a/6	1938-40.
Driggs River near Seney, Mich.....	a/70	1938-42.
Walsh Creek near Seney, Mich.....	a/12	1938-42.
Driggs River near Germfask, Mich.....	a/114	1938-41.
Marsh Creek near Shingleton, Mich.....	a/20	1938-42.
Marsh Creek near Germfask, Mich.....	a/15	1938-41.
Duck Creek near Blaney, Mich.....	a/92	1938-54.
Manistique River near Blaney, Mich.....	704	1938-
West Branch Manistique River:		
Creighton River near Shingleton, Mich.....	a/35	1938-42.
West Branch Manistique River near Manistique, Mich.....	322	1938-
Manistique River near Manistique, Mich.....	a/1,100	1938-
Indian River near Manistique, Mich.....	302	1938-
Sturgeon River near St. Jacques, Mich.....	167	1950-51.
Middle Branch Escanaba River near Ishpeming, Mich.....	128	1954-
East Branch Escanaba River at Gwinn, Mich.....	125	1954-
Escanaba River at Cornell (near Escanaba), Mich.....	870	1903-12; 1913-15*; 1950-
Ford River near Hyde, Mich.....	450	1954-
Brule River (head of Menominee River):		
Iron River near Iron River (at Riverton Mine), Mich.....	a/65	1900-3; 1904-5*.
Iron River at Caspian, Mich.....	a/84	1948-
Brule River near Florence, Wis.....	380	1914-16; 1944-
Paint River at Crystal Falls, Mich.....	616	1944-
Paint River near Alpha, Mich.....	644	1952-53; 1953-++
Michigamme River near Crystal Falls, Mich.....	670	1944-
Menominee River near Florence, Wis.....	-	1950-
Menominee River at Twin Falls, near Iron Mountain, Mich.....	a/1,790	1914-
Pine River near Florence, Wis.....	500	1914-23.
Pine River at Pine River powerplant, near Florence, Wis.....	528	1923-
Menominee River near Iron Mountain		
(at lower Quinnesec Falls), Mich.....	a/2,420	1898-99; 1902-14.
Sturgeon River near Foster City, Mich.....	244	1954-

* Gage heights or gage heights and discharge measurements only.

++ Unpublished.

a/ Approximately.

e/ In files of Corps of Engineers.

<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
<u>Streams tributary to Lake Michigan--Continued</u>		
Menominee River near Pembine, Wis.....	a/3,240	1949-
Pike River at Amberg, Wis.....	253	1914-
Menominee River below (at) Koss, Mich.....	a/3,790	1907-8; 1909+; (1911-13)f/; 1913-
Menominee River near McAllister, Wis.....	a/4,020	1945-
Peshtigo River at High Falls, near Crivitz, Wis.....	571	1912-40; 1941-++
Peshtigo River near Crivitz, Wis.....	670	1906-9*.
Peshtigo River at Crivitz, Wis.....	-	1906*.
Peshtigo River at Peshtigo, Wis.....	1,124	1953-
Oconto River:		
Wheeler Lake near Lakewood, Wis.....	a/2	1936-*
Boot Lake near Townsend, Wis.....	a/1.5	1936-*
Oconto River near Gillett, Wis.....	678	1906-9; 1914-
Oconto River at Stiles, Wis.....	-	1906*.
Suamico River at Suamico, Wis.....	62	1951-52.
Fox River:		
Silver Lake Outlet:		
Silver Lake at Portage, Wis.....	a/1	1936-*
Grand River:		
Little Green Lake near Markesan, Wis.....	a/5	1936-*
Fox River at Berlin, Wis.....	1,430	1898-
Fox River at Omro, Wis.....	-	1902-3*.
Wolf River:		
Swamp Creek:		
Lucerne (Stone) Lake near Crandon, Wis.....	a/3	1936-38*.
Wolf River near White Lake, Wis.....	482	1935-37.
Wolf River above West Branch Wolf River, Wis.....	633	1928-
West Branch Wolf River at Neopit, Wis.....	108	1911-17.
West Branch Wolf River near Keshena, Wis.....	170	1928-31.
Wolf River at Keshena Falls (at Keshena), Wis.....	812	1907-9; 1911-
Wolf River at White House Bridge, near Shawano, Wis.....	-	1906-7*.
Wolf River at Darrows Bridge, near Shawano, Wis.....	-	1906*.
Embarrass River near Embarrass, Wis.....	395	1919-
Wolf River at New London, Wis.....	a/2,240	(1896-1913)f/; 1913-
Wolf River at Northport, Wis.....	-	1905*.
Little Wolf River at Royalton, Wis.....	485	1914-
Little Wolf River near Northport, Wis.....	-	1907-10*.
Waupaca River near Waupaca (Weyauwega), Wis.....	305	1916-
Wolf River at Winneconne, Wis.....	-	1902-3*.
Fox River at Oshkosh, Wis.....	-	1902*.
Lake Winnebago at Oshkosh, Wis.....	6,030	(1857-1938*)e/; 1938-*
West Branch Fond du Lac River at Fond du Lac, Wis.....	a/88	1903*; 1939-54
East Branch Fond du Lac River at Fond du Lac, Wis.....	a/75	1903*; 1939-54
De Neveu Creek:		
Lake de Neveu near Fond du Lac, Wis.....	a/2	1936-*
Fox River at Rapide Croche Dam, near Wrightstown, Wis.....	a/6,150	1896-1917+; 1918-
Fox River at Wrightstown, Wis.....	a/6,210	1902-4*.
Sheboygan River:		
Unnamed Creek:		
Cedar Lake (head of Pigeon River) near Kiel, Wis.....	a/3	1936-42*; 1945-*
Sheboygan River at (near) Sheboygan, Wis.....	403	1916-24; 1950-
Milwaukee River:		
Cedar Creek near Cedarburg, Wis.....	113	1930-
Milwaukee River at (near) Milwaukee, Wis.....	661	1914-
Little Calumet River (western portion, head of Calumet River):		
Hart ditch at Munster, Ind.....	69.2	1942-
Thorn Creek at Glenwood, Ill.....	25.4	1949-
Deer Creek near Chicago Heights, Ill.....	24.4	1948-
Butterfield Creek at Flossmoor, Ill.....	22.9	1948-
North Creek:		
Lansing ditch near Lansing, Ill.....	a/8.3	1948-
North Creek near Lansing, Ill.....	18.2	1948-
Thorn Creek at Thornton, Ill.....	106	1948-
Little Calumet River at South Holland, Ill.....	-	1947-
Little Calumet River at Harvey, Ill.....	-	1916-33.
Midlothian Creek at Oak Forest, Ill.....	12.7	1950-
Calumet River:		
Wolf Lake at Chicago, Ill.....	-	1939-*

* Gage heights or gage heights and discharge measurements only.

+ Monthly figures of discharge or contents only.

++ Unpublished.

a/ Approximately.

e/ In files of Corps of Engineers.

f/ House Document 141, 72nd Congress, 1st Session.

<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
<u>Streams tributary to Lake Michigan--Continued</u>		
Burns ditch:		
Deep River at Lake George Outlet at Hobart, Ind.....	125	1947-
Burns ditch at Gary, Ind.....	160	1943-50; 1950-****
Little Calumet River (eastern portion) at Porter, Ind. <u>g</u> /...	62.9	1945-
Salt Creek near McCool, Ind.....	78.7	1945-
Little Calumet River near McCool, Ind.....	149	1943-45†
Gallen River near New Troy, Mich.....	<u>a</u> /47	1945-47.
East Branch Gallen River near New Troy, Mich.....	19.2	1945-47.
St. Joseph River:		
East Branch Coldwater River at Coldwater, Mich.....	60	1937-
St. Joseph River at Mendon, Mich.....	844	1902-5*.
St. Joseph River at Three Rivers, Mich.....	<u>a</u> /1,320	1953-
Fawn River at Orland, Ind.....	81.4	1943-47.
Fawn River near White Pigeon, Mich.....	-	1903-4*.
St. Joseph River at Mottville, Mich.....	<u>a</u> /1,860	1923-
Pigeon Creek at Hogback Lake Outlet, near Angola (near Flint), Ind.....	102	1945-
Christiana Creek at Elkhart, Ind.....	119	1946-52.
Elkhart River at Goshen, Ind.....	580	(1924-27) <u>h</u> /; 1931-
St. Joseph River at Elkhart, Ind.....	3,339	1947-
St. Joseph River at Niles, Mich.....	<u>a</u> /3,620	1930-
St. Joseph River at Berrien Springs (at and near Buchanan), Mich.....	4,081	1901-6; (1909-31) <u>†</u> <u>i</u> /; 1951-
Paw Paw River at Riverside, Mich.....	391	1951-
Kalamazoo River:		
Reed's Springs near Albion, Mich.....	-	1904-6****.
Kalamazoo River at Marshall, Mich.....	449	1948-
Battle Creek at Charlotte, Mich.....	<u>a</u> /67	1948-55.
Battle Creek at Bellevue, Mich.....	178	1948-53.
Battle Creek at Battle Creek, Mich.....	241	1930-31; 1932-
Kalamazoo River near Battle Creek, Mich.....	849	1937-
Kalamazoo River at Comstock, Mich.....	<u>a</u> /1,010	1931; 1932-
Portage Creek at Kalamazoo, Mich.....	<u>a</u> /48	1947-
Gun River at dam near Shelbyville, Mich.....	<u>a</u> /30	1946-47.
Gun River near Martin, Mich.....	<u>a</u> /55	1946-47.
Kalamazoo River near Allegan, Mich.....	<u>a</u> /1,470	1901-7.
Kalamazoo River near Fennville (near Allegan) (at Calkins Bridge near Allegan) (at Calkins Dam near Allegan), Mich.....	<u>a</u> /1,600	1929-36; 1937-
Grand River at Jackson, Mich.....	174	1935-
Portage River below Little Portage Lake, near Munith, Mich.	<u>a</u> /55	1944-
Orchard Creek at Munith, Mich.....	<u>a</u> /49	1944-
Portage River near Munith, Mich.....	118	1944-46.
Grand River near Eaton Rapids, Mich.....	661	(1905-28) <u>i</u> /; 1950-
Cedar River:		
Deer Creek near Dansville, Mich.....	16.3	1954-
Sloan Creek near Williamston, Mich.....	9.34	1954-
Cedar (Red Cedar) River at East Lansing (Agricultural College), Mich.....	355	1902-3; (1911-19; 1920-28**) <u>m</u> /; 1931-
Grand River at Lansing (North Lansing), Mich.....	<u>a</u> /1,230	1901-6; (1907-10**; 1911-19; 1920- 28**) <u>m</u> /; 1934-
Sebewa Creek near Sunfield, Mich.....	24.1	1954-
Grand River at Portland, Mich.....	1,385	(1907-28) <u>i</u> /; 1952-
Lookingglass River near Eagle, Mich.....	281	1944-
Maple River at Maple Rapids, Mich.....	434	1944-
Fish Creek near Carson City, Mich.....	145	1936-38.
Grand River at Ionia, Mich.....	<u>a</u> /2,840	(1907-28) <u>i</u> /; 1931; 1951-
Flat River at Smyrna, Mich.....	528	1950-

* Gage Heights or gage heights and discharge measurements only.

† Monthly figures of discharge or contents only.

** High water records only.

**** Weekly gage heights and discharge only.

a/ Approximately.

g/ Flow from eastern headwaters of Little Calumet River is diverted to Lake Michigan through Burns ditch.

h/ In reports of Indiana Department of Conservation.

i/ House Document 94, 73rd Congress, 1st Session.

j/ In reports of U. S. Weather Bureau, gage heights during high water only.

m/ In reports of U. S. Weather Bureau, gage heights only.

<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
<u>Streams tributary to Lake Michigan--Continued</u>		
<u>Grand River--Continued</u>		
Thornapple River:		
Quaker Brook near Nashville, Mich.....	7.60	1954-
Thornapple River near Hastings, Mich.....	385	1944-
Thornapple River near Caledonia, Mich.....	773	1930-38; 1951-
Rogue River near Rockford, Mich.....	234	1952-
Grand River at Grand Rapids, Mich.....	a/4,900	1897-1900*; 1901-5; 1906-18*; 1930-
Grand River near Marne, Mich.....	a/5,170	1931.
Crockery Creek at Slocums Grove, Mich.....	-	1902-3*.
Higgins Lake Outlet (head of Muskegon River) near Roscommon, Mich.....	a/58	1942-50.
Muskegon River near Merritt, Mich.....	309	1946-
Muskegon River at Evart, Mich.....	a/1,450	1930-31; 1934-
Muskegon River at Newaygo (at Croton Power Plant near Newaygo) at Newaygo, Mich.....	a/2,350	1901-6; (1908-19)k/; 1930-
Pere Marquette River at Scottville (Custer), Mich.....	709	1939-
Big Sable River near Freesoil, Mich.....	127	1942-
Manistee River near Grayling, Mich.....	159	1942-
Manistee River near (at) Sherman, Mich.....	900	1903-16; 1930-31; 1934-
Pine River:		
East Branch Pine River near Tustin, Mich.....	a/63	1952-
Pine River near Le Roy, Mich.....	118	1952-
Pine River near Hoxeyville, Mich.....	251	1952-
Manistee River near Manistee, Mich.....	a/1,780	1951-
Little Manistee River near Stronach, Mich.....	233	1930-31.
Boardman River near Mayfield, Mich.....	223	1952-
Boardman River at Traverse City, Mich.....	-	1903-4*.
<u>Streams tributary to Lake Huron</u>		
Burt Lake (head of Cheboygan River):		
Sturgeon River near Wolverine, Mich.....	164	1942-
Indian River (outlet of Burt Lake) at Indian River, Mich.....	583	1942-
Pigeon River near Vanderbilt, Mich.....	a/63	1950-
Pigeon River at Afton, Mich.....	159	1942-
Cheboygan River (continuation of Indian River) near Cheboygan, Mich.....		
Black River near Tower, Mich.....	865	1952-
Rainy River near Onaway, Mich.....	313	1942-
Rainy River near Ocqueoc, Mich.....	a/79	1942-52.
Black River near Cheboygan, Mich.....	a/85	1952-
Thunder Bay River near Hillman, Mich.....	597	1942-
Upper South Branch Thunder Bay River near Lachine, Mich....	232	1945-
Thunder Bay River near Bolton, Mich.....	171	1945-53.
Thunder Bay River near Bolton, Mich.....	588	1945-
North Branch Thunder Bay River near Bolton, Mich.....	184	1945-
Lower South Branch Thunder Bay River near Hubbard Lake, Mich.....	146	1945-53.
Thunder Bay River near Alpena, Mich.....	a/1,260	1901-8.
Au Sable (Middle Branch Au Sable) River at Grayling, Mich....	110	1942-
Au Sable River near Red Oak (Lovells), Mich.....	a/1,000	1908-14; 1930-31.
Au Sable River at Mio, Mich.....	a/1,100	1952-
Au Sable River at Bamfield, Mich.....	a/1,420	1902-13.
Au Sable River near Au Sable, Mich.....	a/1,540	1939-40.
East Branch Au Gres River at McIvor, Mich.....	a/84	1950-
Au Gres River near National City, Mich.....	169	1950-
Rifle River:		
Houghton Creek near Lupton, Mich.....	a/27	1950-
Rifle River at "The Ranch" near Lupton, Mich.....	a/54	1950-
Prior Creek near Selkirk, Mich.....	a/19	1950-
Rifle River at Selkirk, Mich.....	a/110	1950-
Shepards Creek:		
South Branch Shepards Creek near Selkirk, Mich.....	1.20	1951-
West Branch Rifle River near Selkirk, Mich.....	a/52	1952-
Rifle River at Michigan Highway 70, near Sterling, Mich.....	a/320	1937-
Rifle River near Sterling, Mich.....	-	1905-8*.
Rifle River at Omer, Mich.....	364	1902-3*.
Kawkawlin River:		
North Branch Kawkawlin River near Kawkawlin, Mich.....	101	1951-
Shiawassee River (head of Saginaw River) at Byron, Mich.....	368	1948-
Shiawassee River at Owosso, Mich.....	538	1931-

* Gage heights or gage heights and discharge measurements only.

a/ Approximately.

k/ House Document 143, 72nd Congress, 1st Session.

<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
<u>Streams tributary to Lake Huron--Continued</u>		
Shiawassee River near Fergus, Mich.....	637	1940-
Bad River near Brant, Mich.....	a/89	1948-
South Branch Flint River:		
Farmers Creek near Lapeer, Mich.....	a/57	1933-
Flint River at Columbiaville, Mich.....	486	(1932-33)m/; 1948-52.
Flint River:		
Holloway Reservoir near Otisville, Mich.....	543	1954-†
Flint River near Otisville, Mich.....	547	1952-
Flint River at Genesee, Mich.....	593	1931-52.
Flint River near (at) Flint, Mich.....	927	1903-4*; (1911-28)j/;
		1932-
Flint River near Fosters, Mich.....	a/1,120	(1910-20; 1922-27)j/;
		1940-
Flint River near Alicia, Mich.....	-	1948-*
East Branch Cass River near Cass City, Mich.....	251	1948-
Cass River at Cass City, Mich.....	a/370	1948-
Cass River at Vassar, Mich.....	a/700	(1910-28)j/; 1948-
Cass River at Frankenmuth, Mich.....	848	1908-9; 1935-36; 1939-
Cass River at Bridgeport, Mich.....	-	1908*.
Tittabawassee River:		
Tobacco River at Beaverton, Mich.....	487	1948-
Salt River:		
North Fork Salt River:		
Kinney Creek near Clare, Mich.....	a/9	1935-36.
Salt River near North Bradley, Mich.....	138	1934-
Chippewa River near Mount Pleasant, Mich.....	416	(1910-27)j/; 1930-31;
		1932-
Chippewa River near Midland, Mich.....	597	1948-
Pine River at Alma, Mich.....	288	(1910-28)j/; 1930-
Pine River near Midland, Mich.....	a/390	1934-38; 1948-
Tittabawassee River at Midland, Mich.....	a/2,400	(1910-26)j/; 1936-
Tittabawassee River at Freeland, Mich.....	a/2,530	1903-9*; 1912-36.
Saginaw River at Saginaw, Mich.....	6,060	1904-##; (1910-20##;
		1921-m/.
Sebewaing River (State drain) near Sebewaing, Mich.....	a/62	1940-54.
East Fork Sebewaing River (Columbia drain) near		
Sebewaing, Mich.....	a/38	1940-54.
Pigeon River near Owendale, Mich.....	a/55	1952-
Pigeon River near Pigeon, Mich.....	a/86	1946-52.
<u>Streams tributary to St. Clair River</u>		
Black River near Fargo, Mich.....	475	1944-
Mill Creek near Abbottsford, Mich.....	138	1947-
Black River near Port Huron, Mich.....	634	1931; 1932-43.
<u>Streams tributary to Lake St. Clair</u>		
Clinton River at Pontiac, Mich.....	123	1935-40.
Paint Creek near Lake Orion, Mich.....	-	1955-
Red Run near Royal Oak, Mich.....	36.5	1953-
Bear Creek at Warren, Mich.....	17.3	1954-
Big Beaver Creek at Warren, Mich.....	25.2	1954-
Plum Brook near Utica, Mich.....	22.5	1954-
Clinton River near Fraser, Mich.....	454	1947-
North Branch Clinton River near Mount Clemens, Mich.....	185	1947-
Middle Branch Clinton River near Mount Clemens, Mich.....	51	1947-49.
Clinton River at Mount Clemens, Mich.....	733	1934-
<u>Streams tributary to Detroit River</u>		
River Rouge at Birmingham, Mich.....	a/33	1950-
River Rouge at Detroit, Mich.....	193	1930-
Middle River Rouge near Garden City, Mich.....	a/93	1947-
Middle River Rouge at Detroit, Mich.....	a/99	1930-33.
Lower River Rouge at Inkster, Mich.....	a/90	1947-
Lower River Rouge at Dearborn, Mich.....	a/96	1930-33.
<u>Streams tributary to Lake Erie</u>		
Huron River:		
Hayes Creek at Commerce, Mich.....	a/7.5	1946-51.
Huron River at Commerce, Mich.....	a/51	1946-
Huron River at Milford, Mich.....	125	1948-
Huron River near New Hudson, Mich.....	143	1948-
Davis Creek near Whitmore Lake, Mich.....	a/70	1952-54.
Ore Creek near Brighton, Mich.....	a/31	1951-
Huron River near Hamburg, Mich.....	299	1951-
Portage Creek near Pinckney, Mich.....	a/79	1944-

* Gage heights or gage heights and discharge measurements only.

† Monthly figures of discharge or contents only.

High water records only.

a/ Approximately.

j/ In reports of U. S. Weather Bureau, gage heights during high water only.

m/ In reports of U. S. Weather Bureau, gage heights only.

<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
<u>Streams tributary to Lake Erie--Continued</u>		
Huron River near Dexter (at Dover), Mich.....	506	1904*; 1946-
Mill Creek near Dexter, Mich.....	134	1952-
Huron River at Dexter, Mich.....	-	1904-16*.
Huron River at Ann Arbor (Geddes) (Barton), Mich.....	711	1904; 1905†; 1906-40; 1948-
Huron River at French Landing, Mich.....	-	1904-5.
Huron River at Flat Rock, Mich.....	851	1904-11; 1912-22*.
River Raisin (Raisin River) near Adrian, Mich.....	455	1930-31; 1932-38; 1953-
River Raisin (Raisin River) near (at) Monroe, Mich.....	1,034	1937-
Ottawa River:		
Tenmile Creek at Toledo, Ohio.....	139	1945-48.
St. Joseph River (head of Maumee River) near Blakeslee, Ohio.	369	1926-32.
St. Joseph River near Newville, Ind.....	614	1946-
St. Joseph River at Hursh, Ind.....	737	1950-54.
St. Joseph River at Cedarville, Ind.....	783	1931-32; 1955-
Cedar Creek at Auburn, Ind.....	a/93	1943-
Cedar Creek near Cedarville, Ind.....	279	1946-
St. Joseph River near (at) Ft. Wayne, Ind.....	1,060	1905-6; 1941-55.
St. Marys River near Willshire, Ohio.....	369	1925-32.
St. Marys River at Decatur, Ind.....	615	1946-
St. Marys River near Ft. Wayne, Ind.....	753	(1924-25; 1927)h/;
		1930-
St. Marys River at Ft. Wayne, Ind.....	798	1905-6.
Maumee River at New Haven, Ind.....	1,940	1946-##
Maumee River at Antwerp, Ohio.....	2,049	1921-35; 1939-
Maumee River near Sherwood, Ohio.....	2,190	1903-6.
Bean Creek (head of Tiffin River) at Powers, Ohio.....	238	1940-
Tiffin River at (near) Stryker, Ohio.....	444	1921-28; 1940-
Tiffin River near Brunersburg, Ohio.....	766	1903-6; 1928-35.
Auglaize River:		
Miami & Erie Canal at Delphos, Ohio.....	-	1928-33.
Auglaize River near Fort Jennings, Ohio.....	333	1921-35; 1940-
Ottawa River at Lima, Ohio.....	133	1902-3*.
Ottawa River at Allentown, Ohio.....	168	1923-35; 1943-
Ottawa River at Kalida, Ohio.....	315	1930-35.
Blanchard River:		
Eagle Creek near Findlay, Ohio.....	46.5	1947-
Blanchard River near Findlay, Ohio.....	343	1923-35; 1940-
Blanchard River at Glandorf, Ohio.....	643	1902-3*; 1921-28; 1947-51.
Blanchard River near Dupont, Ohio.....	749	1928-35.
Little Auglaize River:		
Middle Creek:		
Town Creek:		
Roller Creek at Ohio City, Ohio.....	4.94	1946-48; 1948-###
Town Creek near Van Wert, Ohio.....	20.4	1945-53.
Auglaize River near Defiance, Ohio.....	2,329	1903*; 1915-35; 1940-
Miami & Erie Canal near Defiance, Ohio.....	-	1924-29; 1935; 1952-
Maumee River near Defiance, Ohio.....	5,530	1924-35; 1939-
Miami & Erie Canal at Waterville, Ohio.....	-	1921-29.
Maumee River at Waterville, Ohio.....	6,314	1898-1901; 1921-35; 1939-
Swan Creek at Toledo, Ohio.....	185	1945-48.
South Branch Portage River near Pemberville, Ohio.....	334	1930-35.
North Branch Portage River near Bowling Green, Ohio.....	54.0	1923-32.
Portage River at Woodville, Ohio.....	433	1928-35; 1939-
Sandusky River near Bucyrus, Ohio.....	89.8	1925-35; 1938-51.
Sandusky River near Upper Sandusky, Ohio.....	299	1921-35; 1938-
Sandusky River near (at) Mexico, Ohio.....	776	1898-1900*; 1923-35; 1938-
Havens Creek at Havens, Ohio.....	5.00	1946-49; 1949-###
Sandusky River near (at) Fremont, Ohio.....	1,248	1898-1901*; 1923-35; 1938-
Huron River:		
East Branch Huron River near Norwalk, Ohio.....	84.9	1923-35.
Huron River at Milan, Ohio.....	363	1950-
Vermilion River near Vermilion, Ohio.....	260	1950-
East Branch Black River at Elyria, Ohio.....	211	1922-35.

* Gage heights or gage heights and discharge measurements only.

† Monthly figures of discharge or contents only.

High water records only.

Discharge measurements only.

a/ Approximately.

h/ In reports of Indiana Department of Conservation.

<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
<u>Streams tributary to Lake Erie--Continued</u>		
Black River at Elyria, Ohio.....	392	1944-
Black River near Elyria, Ohio.....	417	1903-6.
Rocky River near Berea, Ohio.....	269	1923-35; 1943-
Cuyahoga River at Hiram Rapids (near Hiram), Ohio.....	147	1927-35; 1944-
Cuyahoga River near Kent, Ohio.....	205	1933-35.
Congress Lake Outlet near Kent, Ohio.....	76.9	1927-35.
Cuyahoga River at Kent, Ohio.....	302	1927-32.
Little Cuyahoga River at Mogadore, Ohio.....	12.3	1946-
Little Cuyahoga River at Massillon Road, Akron, Ohio.....	31.0	1946-
Springfield Lake Outlet at Akron, Ohio.....	8.40	1946-
Little Cuyahoga River at Akron, Ohio.....	42.0	1920-35; 1939-42.
Cuyahoga River at Old Portage, Ohio.....	405	1921-35; 1939-
Cuyahoga River at Brecksville, Ohio.....	584	1923-24.
Ohio Canal feeder at Brecksville, Ohio.....	-	1923-24.
Ohio Canal at Independence, Ohio.....	-	1921-23; 1927-35;
		1950-
Cuyahoga River at Independence, Ohio.....	709	1903-6; 1921-23;
		1927-35; 1940-
Cuyahoga River at Cleveland, Ohio.....	-	1903*.
Chagrin River at Willoughby, Ohio.....	251	1925-35; 1939-
Grand River near North Bristol, Ohio.....	89.7	1942-47.
Phelps Creek near Windsor, Ohio.....	26.4	1942-
Grand River near Rome, Ohio.....	276	1942-47.
Rock Creek near Rock Creek, Ohio.....	56.6	1942-
Mill Creek near Jefferson, Ohio.....	78.3	1942-
Grand River near Madison, Ohio.....	587	1922-35; 1938-
Ashtabula River near Ashtabula, Ohio.....	118	1924-35; 1939-47;
		1950-
Conneaut Creek at Amboy, Ohio.....	178	1922-35; 1950-
Cattaraugus Creek at Gowanda, N. Y.....	428	1939-
Cattaraugus Creek at Versailles, N. Y.....	464	1910-23.
Buffalo Creek at Gardenville, N. Y.....	145	1938-
Cayuga Creek near Lancaster, N. Y.....	93.3	1938-
Cazenovia Creek at Ebenezer, N. Y.....	136	1940-
Niagara River at Buffalo, N. Y.....	a/260,400	1905-35†; 1935-
<u>Streams tributary to Niagara River</u>		
Tonawanda Creek:		
Little Tonawanda Creek at Linden, N. Y.....	22.0	1912-
Tonawanda Creek at Batavia, N. Y.....	172	1944-
Tonawanda Creek near Alabama, N. Y.....	-	1955-
Tonawanda Creek at Rapids, N. Y.....	358	1955-
Ellicott Creek at Williamsville, N. Y.....	76.3	1955-
Barge Canal at lock 30, Macedon, N. Y.....	-	1919-20; 1950-
Barge Canal at lock 32, Pittsford, N. Y.....	-	1919-21.
<u>Streams tributary to Lake Ontario</u>		
Oak Orchard Creek near Medina, N. Y.....	143	1903-4.
Genesee River:		
Dyke Creek at Wellsville, N. Y.....	71.4	1955-
Genesee River at Wellsville, N. Y.....	288	1955-
Genesee River at Scio, N. Y.....	309	1916-
Caneadea Creek at Caneadea, N. Y.....	61.5	1949-
Lost Nation Brook near Centerville, N. Y.....	-	1934-35.
Genesee River at Portageville, N. Y.....	982	1945-
Genesee River at St. Helena, N. Y.....	1,017	1908-50.
Mount Morris Reservoir near Mount Morris, N. Y.....	1,077	1952-
Genesee River at Mount Morris, N. Y.....	1,078	(1890)n/; 1893-96;
		1903-9.
Canaseraga Creek near Dansville (at Cumminsville), N. Y....	153	1910-12; 1915-
Canaseraga Creek at Groveland Station, N. Y.....	181	1915-20; 1955-
Keshequa Creek at Craig Colony, Sonyea, N. Y.....	69.1	1910-12; 1917-32.
Keshequa Creek near Sonyea, N. Y.....	76.5	1915-17.
Canaseraga Creek at Shakers Crossing, N. Y.....	334	1915-22.
Genesee River at Jones Bridge, near Mount Morris, N. Y.....	1,419	1903-6; 1908-14; 1915-
Conesus Creek near Lakeville, N. Y.....	72.0	1919-34.
Genesee River at Avon, N. Y.....	1,666	1955-
Honeoye Creek:		
Hemlock Lake Outlet:		
Canadice Lake Outlet near Hemlock, N. Y.....	12.6	1903-†
Honeoye Creek at Honeoye Falls, N. Y.....	197	1945-
Honeoye Creek at East Rush, N. Y.....	238	1903-6.

* Gage heights or gage heights and discharge measurements only.

† Monthly figures of discharge or contents only.

a/ Approximately.

n/ In reports of N. Y. State Engineer and Surveyor.

<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
<u>Streams tributary to Lake Ontario--Continued</u>		
Genesee River--Continued		
Oatka Creek at Garbutt, N. Y.....	208	1945-
Black Creek at Churchville, N. Y.....	123	1945-
Genesee River at Rochester, N. Y.....	2,450	1904-19.
Genesee River at Driving Park Avenue, Rochester, N. Y.....	2,467	1919-
Seneca Lake (head of Seneca River) at Geneva, N. Y.....	714	1905-6*.
Seneca River (head of Oswego River):		
Cayuga Inlet near Ithaca, N. Y.....	36.7	1937-
Cayuga Lake at Ithaca, N. Y.....	-	1905-9*.
Fall Creek near Ithaca, N. Y.....	124	1908-9*; 1925-
Clyde River:		
Canandaigua Lake at Canandaigua, N. Y.....	189	1939-
Canandaigua Lake Outlet at Chapin, N. Y.....	199	1939-
Owasco Lake Outlet near Auburn, N. Y.....	208	1912-
Skaneateles Lake at Skaneateles, N. Y.....	73.8	1890-91*.
Skaneateles Lake Outlet at Willow Glen, N. Y.....	75.9	1892-1908.
Skaneateles Lake Outlet at Jordan, N. Y.....	90.7	1890-92.
Seneca River at Baldwinsville, N. Y.....	3,130	1898-1908; 1949-
Onondaga Creek:		
Onondaga Reservoir near Nedrow, N. Y.....	68.1	1949-
West Branch Onondaga Creek at South Onondaga, N. Y.....	20.8	1916-18.
Onondaga Creek at Dorwin Avenue, Syracuse, N. Y.....	88.9	1951-
Onondaga Creek at Syracuse, N. Y.....	98.2	1939-49.
Onondaga Creek at Temple Street, Syracuse, N. Y.....	-	1949-51.
Onondaga Lake Outlet at Long Branch, N. Y.....	301	1904.
West Branch Fish Creek (through Oneida Lake, head of Oneida River), at McConnellsville, N. Y.....	192	1898-1901.
East Branch Fish Creek at Fish Creek, near Constableville, N. Y.....	74.3	1923-32.
East Branch Fish Creek at Point Rock, N. Y.....	109	1898-99.
East Branch Fish Creek at Taberg, N. Y.....	189	1923-
Oneida Lake:		
Oneida Creek at Kenwood, N. Y.....	62.1	1898-1900.
Oneida Creek at Oneida, N. Y.....	112	1949-
Chittenango Creek near Chittenango, N. Y.....	67.7	1950-
Chittenango Creek at Chittenango, N. Y.....	79	1901-6.
Butternut Creek:		
Limestone Creek at Fayetteville, N. Y.....	85.7	1939-
Chittenango Creek at Bridgeport, N. Y.....	311	1898-1901.
Oneida Lake at Brewerton, N. Y.....	1,353	1899*; (1904-25)*n/; 1951-*
Oneida River at Caughdenoy, N. Y.....	1,377	1910-13; 1947-
Oneida River at Oak Orchard, near Euclid, N. Y.....	1,433	1902-9.
Oswego River at Fulton, N. Y.....	5,043	1900; 1902.
Oswego River at Battle Island, above Minetto, N. Y.....	5,111	1900-6.
Oswego River at High Dam near Oswego, N. Y.....	5,120	1897-1901; 1927-28.
Oswego River at lock 7, Oswego, N. Y.....	5,121	1933-
Salmon River at Stillwater Bridge, near Redfield, N. Y.....	188	1911-13.
Orwell Brook near Altmar, N. Y.....	22.3	1911-16.
Salmon River near Pulaski, N. Y.....	257	1900-8; 1910-14.
Black River:		
Forestport feeder near Boonville, N. Y.....	-	1915-33.
Mill Creek Sluiceway at Boonville, N. Y.....	-	1933-40.
Black River Canal (flowing south) near Boonville, N. Y.....	-	1915-
Black River near Boonville, N. Y.....	295	1911-
Sugar River at Talcottville, N. Y.....	41.5	1926-32.
South Branch Moose River:		
Middle Branch Moose River at Old Forge, N. Y.....	a/52	1911-
Middle Branch Moose River near McKeever, N. Y.....	148	1925-
Moose River at McKeever (Moose River), N. Y.....	365	1900-
Otter Creek near Glenfield, N. Y.....	64.3	1924-33.
Independence River at Sperryville, N. Y.....	85	1927-42.
Independence River at Donnattsburg, N. Y.....	91.7	1942-
Beaver River:		
Stillwater Reservoir near Beaver River, N. Y.....	172	1925-
Beaver River below Stillwater Dam, near Beaver River, N. Y.	172	1908-
Beaver River at Eagle Falls, near Number Four, N. Y.....	227	1921-25.
Beaver River at (near) Croghan, N. Y.....	294	1901-3; 1930-
Deer River at Copenhagen, N. Y.....	a/89	1929-
Black River near Felts Mills, N. Y.....	1,828	1902-13.
Black River at Black River, N. Y.....	1,858	1917-20.
Black River at Huntingtonville Dam, near Watertown, N. Y.....	1,870	1897-1901.
Black River at Watertown, N. Y.....	1,876	1920-

* Gage heights or gage heights and discharge measurements only.

a/ Approximately.

n/ In reports of N. Y. State Engineer and Surveyor.

<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
<u>Streams tributary to St. Lawrence River</u>		
East Branch Oswegatchie River at Cranberry Lake, N. Y.....	144	1923-
East Branch Oswegatchie River at Newton Falls, N. Y.....	171	1912-23.
East Branch Oswegatchie River near Oswegatchie, N. Y.....	263	1924-
West Branch Oswegatchie River near Harrisville, N. Y.....	258	1916-
Oswegatchie River near Heuvelton, N. Y.....	973	1916-
Oswegatchie River near Ogdensburg, N. Y.....	1,572	1903-16.
St. Lawrence River at Ogdensburg, N. Y.....	295,200	1919-35†; 1935-
<u>Grass River:</u>		
North Branch Grass River near South Colton, N. Y.....	27.3	1924-32.
Grass River at Pyrites, N. Y.....	335	1924-
Raquette River at Raquette Falls, near Coreys, N. Y.....	419	1908-12.
Bog River near Tupper Lake, N. Y.....	132	1908-12.
Raquette River at Piercefield, N. Y.....	722	1908-
Raquette River near South Colton, N. Y.....	927	1904.
Raquette River at South Colton, N. Y.....	939	1953-
Raquette River at Raymondville, N. Y.....	1,131	1943-
Raquette River at Massena Springs, N. Y.....	1,197	1903-16.
St. Regis River at Brasher Center, N. Y.....	616	1910-17; 1919-
Deer River at Brasher Iron Works (railroad station), Ironton, N. Y.....	189	1912-16.
Salmon River at Chasm Falls, N. Y.....	132	1925-
Chateaugay River near Chateaugay, N. Y.....	112	1908; 1926-
<u>Lake Champlain (head of Richelieu River):</u>		
Great Chazy River at Mooers, N. Y.....	204	1908.
Great Chazy River at Perry Mills, N. Y.....	247	1928-
Lower Saranac Lake (head of Saranac River) near Saranac Lake, N. Y.....	146	1928-29*.
Saranac River at Saranac Lake, N. Y.....	146	1902-3.
Saranac River at Saranac, N. Y.....	521	1930-43.
Saranac River at (near) Plattsburg, N. Y.....	608	1903-30; 1943-
West Branch Ausable River near Newman, N. Y.....	116	1916-17; 1919-
Black Brook at Black Brook, N. Y.....	49.4	1924-
East Branch Ausable River at Au Sable Forks, N. Y.....	198	1924-
Ausable River near (at) Au Sable Forks, N. Y.....	448	1910-
Ausable River at Keeseville, N. Y.....	473	1904; 1908.
Bouquet River at Willsboro, N. Y.....	275	1904*; 1908; 1923-
Lake George at Lake George, N. Y.....	-	1913-14*.
Lake George at Sagamore, N. Y.....	-	1913-14*.
Lake George at Rogers Rock, N. Y.....	-	1913*.
Lake George at Glen Island, near Bolton Landing, N. Y.....	-	1919-24*.
Lake George Outlet at Ticonderoga, N. Y.....	234	1904-5; 1942-
Poultney River near Fair Haven, Vt.....	a/74	1908.
Poultney River below Fair Haven, Vt.....	187	1928-
Mettawee River at Whitehall, N. Y.....	-	1908.
<u>Otter Creek:</u>		
East Creek near Rutland, Vt.....	a/47	1911-13*.
East Creek at Rutland, Vt.....	51.1	1940-
Otter Creek at Center Rutland, Vt.....	307	1928-
Otter Creek at Middlebury, Vt.....	628	1903-7; 1910-20; 1928-
<u>Winooski River:</u>		
Mollys Brook near Marshfield, Vt.....	a/24	1920-23.
<u>Stevens Branch:</u>		
East Barre Detention Reservoir at East Barre, Vt.....	38.8	1936*; 1938-44†; 1945-†
Jail Branch (Brook) at East Barre, Vt.....	40.4	1920-23; 1933-
Stevens Branch Winooski River near Montpelier, Vt.....	130	1910*.
Wrightsville Detention Reservoir at Wrightsville, Vt.....	66.5	1936*; 1938-44†; 1945-†
North Branch Winooski River at Wrightsville, Vt.....	69.2	1933-
Winooski River at Montpelier, Vt.....	397	1909-23; 1928-
Dog River at Northfield, Vt.....	a/52	1909-20; 1928-34.
Dog River at Northfield Falls, Vt.....	76.1	1934-
Dog River near Montpelier, Vt.....	a/88	1910*.
Mad River near Moretown, Vt.....	139	1910; 1928-
<u>Waterbury River:</u>		
Waterbury Reservoir near Waterbury, Vt.....	109	1938-*†
Waterbury (Little) River near Waterbury, Vt.....	111	1910*; 1935-
Winooski River at Richmond, Vt.....	985	1903-7; 1910.
Huntington River at Jonesville, Vt.....	a/55	1910*.
Winooski River near Essex Junction, Vt.....	1,044	1928-

* Gage heights or gage heights and discharge measurements only.

† Monthly figures of discharge or contents only.

a/ Approximately.

<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
<u>Streams tributary to St. Lawrence River--Continued</u>		
<u>St. Lawrence River--Continued</u>		
<u>Lake Champlain--Continued</u>		
<u>Lamoille River:</u>		
Green River at Garfield, Vt.....	a/18	1915-21; 1922-32.
Lamoille River at Cadys Falls, Vt.....	268	1913-23.
Lamoille River at Johnson, Vt.....	310	1910-13; 1928-
Lamoille River at East Georgia (near Milton), Vt.....	686	1929-
Missisquoi River near North Troy, Vt.....	131	1931-
Missisquoi River near Richford, Vt.....	479	1911-23; 1928-
Missisquoi River at Swanton, Vt.....	850	1903*.
Lake Champlain at Burlington, Vt.....	-	1907-*
Richelieu River (Lake Champlain) at Rouses Point (Fort Montgomery), N. Y.....	8,277	1863-70+++; 1871-*
<u>St. Francis River:</u>		
Lake Memphremagog (head of Magog River) at Newport, Vt.....	-	1931-*
Black River at Coventry, Vt.....	122	1951-
Clyde River at Newport (West Derby), Vt.....	142	1909-24; 1928-36; 1938-

* Gage heights or gage heights and discharge measurements only.

+++ Monthly gage heights only.

a/ Approximately.

ALPHABETICAL LIST OF STREAMS AND RESERVOIRS

	<u>Page</u>		<u>Page</u>
Amnicon Lake, Wis.....	2	Cayuga Inlet, N. Y.....	10
Amnicon River, Wis.....	2	Cayuga Lake, N. Y.....	10
Ashtabula River, Ohio.....	9	Cazenovia Creek, N. Y.....	9
Auglaize River, Ohio.....	8	Cedar Creek, Ind.....	8
Auglaize River, Little, Ohio.....	8	Cedar Creek, Wis.....	4
Au Gres River, Mich.....	6	Cedar Lake, Wis.....	4
Au Gres River, East Branch, Mich.....	6	Cedar River, Mich.....	5
Au Sable River, Mich.....	6	Chagrin River, Ohio.....	9
Au Sable River, Middle Branch, Mich.....	6	Chateaugay River, N. Y.....	11
Ausable River, N. Y.....	11	Cheboygan River, Mich.....	6
Ausable River, East Branch, N. Y.....	11	Chippewa River, Mich.....	7
Ausable River, West Branch, N. Y.....	11	Chittenango Creek, N. Y.....	10
Bad River, Mich.....	7	Christiana Creek, Ind.....	5
Bad River, Wis.....	2	Cisco Branch Ontonagan River, Mich.....	3
Baptism River, Minn.....	2	Clinton River, Mich.....	7
Barge Canal, N. Y.....	9	Clinton River, Middle Branch, Mich.....	7
Battle Creek, Mich.....	5	Clinton River, North Branch, Mich.....	7
Bean Creek, Ohio.....	8	Cloquet River, Minn.....	2
Bear Creek, Mich.....	7	Clyde River, N. Y.....	10
Beaver Bay River, Minn. <u>See</u> Beaver		Clyde River, Vt.....	12
Creek.		Coldwater River, East Branch, Mich.....	5
Beaver Creek, Minn.....	2	Columbia drain, Mich. <u>See</u> Sebewaing	
Beaver Creek, Big, Mich.....	7	River, East Fork.	
Beaver River, N. Y.....	10	Conesus Creek, N. Y.....	9
Big Beaver Creek, Mich.....	7	Congress Lake Outlet, Ohio.....	9
Big Lake, Wis.....	3	Conneaut Creek, Ohio.....	9
Big Sable River, Mich.....	6	Creighton River, Mich.....	3
Black Brook, N. Y.....	11	Crockery Creek, Mich.....	6
Black Creek, N. Y.....	10	Cross River, Minn.....	2
Black River, Mich. (Cheboygan River		Cuyahoga River, Ohio.....	9
tributary).....	6	Cuyahoga River, Little, Ohio.....	9
Black River, Mich. (St. Clair River			
tributary).....	7	Davis Creek, Mich.....	7
Black River, Mich. (Lake Superior		Dead River, Mich.....	3
tributary).....	2	Deep River, Ind.....	5
Black River, Mich. (Lake Michigan		Deer Creek, Ill.....	4
tributary).....	3	Deer Creek, Mich.....	5
Black River, Ohio.....	9	Deer River, N. Y. (Black River	
Black River, East Branch, Ohio.....	8	tributary).....	10
Black River, N. Y.....	10	Deer River, N. Y. (St. Regis River	
Black River, Vt.....	12	tributary).....	11
Black River Canal, N. Y.....	10	Devil Track River, Minn.....	2
Blanchard River, Ohio.....	8	Dog River, Vt.....	11
Boardman River, Mich.....	6	Driggs River, Mich.....	3
Bog River, N. Y.....	11	Duck Creek, Mich.....	3
Bois Brule River, Wis.....	2	Dyke Creek, N. Y.....	9
Bond Falls Canal, Mich.....	2		
Bond Falls Reservoir, Mich.....	2	Eagle Creek, Ohio.....	8
Boot Lake, Wis.....	4	East Barre Detention Reservoir, Vt.....	11
Bouquet River, N. Y.....	11	East Branch or Fork. <u>See</u> name of main	
Brule River, Minn.....	2	stream.	
Brule River, Wis.....	3	East Creek, Vt.....	11
Brule River, Wis. <u>See</u> Bois Brule River		East Swan River, Minn.....	2
Buffalo Creek, N. Y.....	9	Egge Lake, Minn.....	2
Burns ditch, Ind.....	5	Elkhart River, Ind.....	5
Burt Lake, Mich.....	6	Ellicott Creek, N. Y.....	9
Butterfield Creek, Ill.....	4	Ely Lake, Minn.....	2
Butternut Creek, N. Y.....	10	Embarrass River, Minn.....	2
		Embarrass River, Wis.....	4
Calumet River, Ill.....	4	Escanaba River, Mich.....	3
Calumet River, Little, Ill.....	4	Escanaba River, East Branch, Mich.....	3
Calumet River, Little, Ind.....	5	Escanaba River, Middle Branch, Mich.....	3
Canadice Lake Outlet, N. Y.....	9	Esquagama Lake, Minn.....	2
Canandaigua Lake, N. Y.....	10		
Canandaigua Lake Outlet, N. Y.....	10	Fall Creek, N. Y.....	10
Canaseraga Creek, N. Y.....	9	Farmers Creek, Mich.....	7
Caneadea Creek, N. Y.....	9	Fawn River, Ind., Mich.....	5
Carp River, Mich.....	3	Fish Creek, Mich.....	5
Cascade River, Minn.....	2	Fish Creek, East Branch, N. Y.....	10
Cass River, Mich.....	7	Fish Creek, West Branch, N. Y.....	10
Cass River, East Branch, Mich.....	7	Flat River, Mich.....	5
Cattaraugus Creek, N. Y.....	9	Flint River, Mich.....	7
Cayuga Creek, N. Y.....	9	Flint River, South Branch, Mich.....	7
		Fond du Lac River, East Branch, Wis.....	4

	Page		Page
Fond du Lac River, West Branch, Wis.....	4	Lower South Branch Thunder Bay River, Mich.....	6
Ford River, Mich.....	3	Lucerne Lake, Wis.....	4
Forestport feeder, N. Y.....	10		
Fox River, Mich.....	3	Mad River, Vt.....	11
Fox River, Wis.....	4	Mamie Lake, Wis.....	3
Fox River, East Branch, Mich.....	3	Manistee River, Mich.....	6
		Manistee River, Little, Mich.....	6
Galien River, Mich.....	5	Manistique Lake Outlet, South, Mich.....	3
Galien River, East Branch, Mich.....	5	Manistique Lake Outlet, North, Mich.....	3
Genesee River, N. Y.....	9, 10	Manistique River, Mich.....	3
Goose Pen Outlet, Mich.....	3	Manistique River, West Branch, Mich.....	3
Grand River, Mich.....	5, 6	Maple River, Mich.....	5
Grand River, Ohio.....	9	Marsh Creek, Mich.....	3
Grand River, Wis.....	4	Maumee River, Ind., Ohio.....	8
Grass River, N. Y.....	11	Menominee River, Mich., Wis.....	3, 4
Grass River, North Branch, N. Y.....	11	Mettawee River, N. Y.....	11
Grays Creek, Mich.....	3	Miami & Erie Canal, Ohio.....	8
Great Chazy River, N. Y.....	11	Michigamme River, Mich.....	3
Green River, Vt.....	12	Middle Branch or Fork. <u>See</u> name of main stream.	
Gun River, Mich.....	5	Middle Creek, Ohio.....	8
Hart ditch, Ind.....	4	Middle River Rouge, Mich.....	7
Havens Creek, Ohio.....	8	Midlothian Creek, Ill.....	4
Hayes Creek, Mich.....	7	Mill Creek, Mich. (St. Clair River tributary).....	7
Hemlock Lake Outlet, N. Y.....	9	Mill Creek, Mich. (Huron River tributary).....	8
Higgins Lake Outlet, Mich.....	6	Mill Creek, Ohio.....	9
Holland Creek, Mich.....	3	Mill Creek Sluiceway, N. Y.....	10
Holloway Reservoir, Mich.....	7	Milwaukee River, Wis.....	4
Honeoye Creek, N. Y.....	9	Missisquoi River, Vt.....	12
Houghton Creek, Mich.....	6	Mollys Brook, Vt.....	11
Huntington River, Vt.....	11	Montreal River, Mich., Wis.....	2
Huron River, Mich.....	7, 8	Montreal River, West Branch, Wis.....	2
Huron River, Ohio.....	8	Moose River, N. Y.....	10
Huron River, East Branch, Ohio.....	8	Moose River, Middle Branch, N. Y.....	10
		Moose River, South Branch, N. Y.....	10
Independence River, N. Y.....	10	Mount Morris Reservoir, N. Y.....	9
Indian River, Mich. (Manistique River tributary).....	3	Muskegon River, Mich.....	6
Indian River, Mich. (Cheboygan River tributary).....	6		
Iron River, Mich. (Lake Superior tributary).....	2	Niagara River, N. Y.....	9
Iron River, Mich. (Menominee River tributary).....	3	North Branch or Fork. <u>See</u> name of main stream.	
Jail Branch, Vt.....	11	North Creek, Ill.....	4
Jail Brook, Vt. <u>See</u> Jail Branch.		North Manistique Lake Outlet, Mich.....	3
Kalamazoo River, Mich.....	5	Oak Orchard Creek, N. Y.....	9
Kawkawlin River, Mich.....	6	Oatka Creek, N. Y.....	10
Kawkawlin River, North Branch, Mich.....	6	Oconto River, Wis.....	4
Keshequa Creek, N. Y.....	9	Ohio Canal, Ohio.....	9
Kinney Creek, Mich.....	7	Ohio Canal feeder, Ohio.....	9
		Oneida Creek, N. Y.....	10
Lake Champlain, N. Y., Vt.....	11, 12	Oneida Lake, N. Y.....	10
Lake de Neveu, Wis.....	4	Oneida River, N. Y.....	10
Lake George, N. Y.....	11	Onondaga Creek, N. Y.....	10
Lake George Outlet, N. Y.....	11	Onondaga Creek, West Branch, N. Y.....	10
Lake Memphremagog, Vt.....	12	Onondaga Lake Outlet, N. Y.....	10
Lake Winnebago, Wis.....	4	Onondaga Reservoir, N. Y.....	10
Lamoille River, Vt.....	12	Ontonagan River, Mich.....	3
Lansing ditch, Ill.....	4	Ontonagan River, Cisco Branch, Mich.....	3
Lepannen Lake, Minn.....	2	Ontonagan River, East Branch, Mich.....	2
Limestone Creek, N. Y.....	10	Ontonagan River, Middle Branch, Mich.....	2, 3
Little Auglaize River, Ohio.....	8	Ontonagan River, South Branch, Mich.....	3
Little Calumet River, Ill.....	4	Ontonagan River, West Branch, Mich.....	3
Little Calumet River, Ind.....	5	Orchard Creek, Mich.....	5
Little Cuyahoga River, Ohio.....	9	Ore Creek, Mich.....	7
Little Green Lake, Wis.....	4	Orwell Brook, N. Y.....	10
Little Manistee River, Mich.....	6	Oswegatchie River, N. Y.....	11
Little River, Vt. <u>See</u> Waterbury River		Oswegatchie River, East Branch, N. Y.....	11
Little Tonawanda Creek, N. Y.....	9	Oswegatchie River, West Branch, N. Y.....	11
Little Wolf River, Wis.....	4	Oswego River, N. Y.....	10
Lookingglass River, Mich.....	5	Ottawa River, Ohio.....	8
Lost Nation Brook, N. Y.....	9	Otter Creek, N. Y.....	10
Lower River Rouge, Mich.....	7	Otter Creek, Vt.....	11
Lower Saranac Lake, N. Y.....	11	Otter River, Mich.....	3

	Page		Page
Otter River, Minn.....	2	Sebewa Creek, Mich.....	5
Owasco Lake Outlet, N. Y.....	10	Sebewaing River, Mich.....	7
Paint Creek, Mich.....	7	Sebewaing River, East Fork, Mich.....	7
Paint River, Mich.....	3	Second Creek, Minn.....	2
Palmer Lake, Wis.....	3	Seneca Lake, N. Y.....	10
Partridge River, Minn.....	2	Seneca River, N. Y.....	10
Paw Paw River, Mich.....	5	Sheboygan River, Wis.....	4
Pequaway Lake, Minn.....	2	Shepards Creek, South Branch, Mich.....	6
Perch Lake, Minn.....	2	Shiawassee River, Mich.....	6, 7
Perch River, Mich.....	3	Silver Lake, Wis.....	4
Pere Marquette River, Mich.....	6	Silver Lake Outlet, Wis.....	4
Peshtigo River, Wis.....	4	Skaneateles Lake, N. Y.....	10
Phelps Creek, Ohio.....	9	Skaneateles Lake Outlet, N. Y.....	10
Pigeon Creek, Ind.....	5	Sloan Creek, Mich.....	5
Pigeon River, Mich. (Lake Huron tributary).....	7	Smith Lake, Minn.....	2
Pigeon River, Mich. (Cheboygan River tributary).....	6	South Branch or Fork. <u>See</u> name of main stream.....	
Pigeon River, Minn.....	2	South Manistique Lake Outlet, Minn.....	3
Pike River, Wis.....	4	Springfield Lake Outlet, Ohio.....	9
Pine Creek, Mich.....	3	State drain, Mich. <u>See</u> Sebewaing River.....	
Pine River, Mich. (Lake Michigan tributary).....	6	Stevens Branch Winooski River, Vt.....	11
Pine River, Mich. (Lake Huron tributary).....	7	Stillwater Reservoir, N. Y.....	10
Pine River, East Branch, Mich.....	6	Stone Lake, Wis. <u>See</u> Lucerne Lake.....	
Pine River, Wis.....	3	Stoney Brook, Minn.....	2
Plum Brook, Mich.....	7	Sturgeon River, Mich. (Lake Superior tributary).....	3
Poplar River, Minn.....	2	Sturgeon River, Mich. (Lake Michigan tributary).....	3
Portage Creek, Mich. (Lake Erie tributary).....	7	Sturgeon River, Mich. (Cheboygan River tributary).....	6
Portage Creek, Mich. (Lake Michigan tributary).....	5	Suamico River, Wis.....	4
Portage River, Mich.....	5	Sugar River, N. Y.....	10
Portage River, Ohio.....	8	Swamp Creek, Wis.....	4
Portage River, South Branch, Ohio.....	8	Swan Creek, Ohio.....	8
Portage River, North Branch, Ohio.....	8	Swan River, Minn.....	2
Poultney River, Vt.....	11	Swan River, East, Minn.....	2
Presque Isle River, Mich.....	2	Tahquamenon River, Mich.....	3
Prior Creek, Mich.....	6	Tenderfoot Lake, Wis.....	3
Quaker Brook, Mich.....	6	Tenmile Creek, Ohio.....	8
Rainy River, Mich.....	6	Thorn Creek, Ill.....	4
Raisin River, Mich. <u>See</u> River Raisin.....		Thornapple River, Mich.....	6
Raquette River, N. Y.....	11	Thunder Bay River, Mich.....	6
Red Cedar River, Mich. <u>See</u> Cedar River.....		Thunder Bay River, Lower South Branch, Mich.....	6
Red Run, Mich.....	7	Thunder Bay River, North Branch, Mich.....	6
Reed's Springs, Mich.....	5	Thunder Bay River, Upper South Branch, Mich.....	6
Richelleu River, N. Y.....	12	Tiffin River, Ohio.....	8
Rifle River, Mich.....	6	Tittabawassee River, Mich.....	7
Rifle River, West Branch, Mich.....	6	Tobacco River, Mich.....	7
River Raisin, Mich.....	8	Tonawanda Creek, N. Y.....	9
River Rouge, Mich.....	7	Tonawanda Creek, Little, N. Y.....	9
River Rouge, Lower, Mich.....	7	Town Creek, Ohio.....	8
River Rouge, Middle, Mich.....	7	Upper South Branch Thunder Bay River, Mich.....	6
Rock Creek, Ohio.....	9	Vermillion River, Ohio.....	8
Rocky River, Ohio.....	9	Walsh Creek, Mich.....	3
Rogue River, Mich.....	6	Waterbury Reservoir, Vt.....	11
Roller Creek, Ohio.....	8	Waterbury River, Vt.....	11
Saginaw River, Mich.....	7	Waupaca River, Wis.....	4
St. Francis River, Quebec.....	12	West Branch or Fork. <u>See</u> name of main stream.....	
St. Joseph River, Ind., Mich.....	5	West Two River, Minn.....	2
St. Joseph River, Ind., Ohio.....	8	Wheeler Lake, Wis.....	4
St. Lawrence River, N. Y.....	11	White River, Wis.....	2
St. Louis River, Minn.....	2	Whiteface River, Minn.....	2
St. Marys River, Ind., Ohio.....	8	Winooski River, Vt.....	11
St. Regis River, N. Y.....	11	Winooski River, North Branch, Vt.....	11
Salmon River, N. Y. (Lake Ontario tributary).....	10	Winooski River, Stevens Branch, Vt.....	11
Salmon River, N. Y. (St. Lawrence River tributary).....	11	Wolf Lake, Ill.....	4
Salt Creek, Ind.....	5	Wolf River, Wis.....	4
Salt River, Mich.....	7	Wolf River, West Branch, Wis.....	4
Sand Creek, Mich.....	3	Wolf River, Little, Wis.....	4
Sandusky River, Ohio.....	8	Wrightsville Detention Reservoir, Vt.....	11
Saranac Lake, Lower, N. Y.....	11		
Saranac River, N. Y.....	11		

