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GEOLOGICAL SURVEY CIRCULAR 49



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June 1949

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## INDEX OF SURFACE-WATER RECORDS

PART 4.—ST. LAWRENCE RIVER BASIN

TO SEPTEMBER 30, 1948

Prepared by Indianapolis District

UNITED STATES DEPARTMENT OF THE INTERIOR  
J. A. Krug, Secretary  
GEOLOGICAL SURVEY  
W. E. Wrather, Director

WASHINGTON, D. C.

# INDEX OF SURFACE-WATER RECORDS

## PART 4.—ST. LAWRENCE RIVER BASIN TO SEPTEMBER 30, 1948

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### EXPLANATION

The index lists the stream-flow and reservoir stations in the St. Lawrence River Basin for which records have been or are to be published for periods prior to September 30, 1948. The stations are listed in downstream order. Tributary streams are indicated by indentation.

Station names are given in their most recently published forms. Parentheses around part of a station name indicate that the inclosed 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. Some drainage areas not published by the Geological Survey are listed with an appropriate footnote stating the published source of the figure of drainage area.

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 in operation on September 30, 1948. The years given are calendar years. Periods of records published by agencies other than the Geological Survey are listed in parentheses only when they contain more detailed information or are for periods not reported in publications of the Geological Survey.

Records both of gage height and of discharge are listed for stream-flow 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 stream flow 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 are considered to be equivalent to daily discharges.

An alphabetical index of streams, canals, and reservoirs is given on pages 11 to 13.

	<u>Drainage area (square miles)</u>	<u>Period of Record</u>
Niagara River at Buffalo, N. Y.....	263,500	1905-35**; 1935-
St. Lawrence River at Ogdensburg, N. Y.....	298,100	1919-35**; 1935-
Streams tributary to Lake Superior:		
Pigeon River above mouth of Arrow River, Minn.....	338	1924-27.
Pigeon River at International Bridge, Minn.....	590	(1921-23)a; (1923-32)b; 1924-40.
Pigeon River at Middle Falls below International Bridge, Minn.....	600	1940-
Brule River at mouth, near Hoveland, Minn.....	248	1911.
Devil Track River at mouth, near Grand Marais, Minn.....	77.2	1911.
Cascade River at mouth, near Grand Marais, Minn.....	111	1911.
Poplar River at Lutsen, Minn.....	114	1911-17; 1928-29; 1930-47.
Cross River at Schroeder, Minn.....	91.1	1931-32.
Baptism River near Beaver Bay, Minn.....	140	1928-29; 1930-47.
Lakes in Baptism River Basin:		
Egge Lake near Finland, Minn.....	-	1938-40*.
Leppanen Lake at Finland, Minn.....	-	1938-40*.
Beaver Creek (Beaver Bay River) at Beaver Bay, Minn.....	126	1911-14.
St. Louis River near Aurora, Minn.....	312	1942-
St. Louis River near Cloquet, Minn.....	3,400	1903.
St. Louis River near Thompson, Minn.....	3,570	1909-15.
Partridge River near Aurora, Minn.....	156	1942-
Embarass River at Embarrass, Minn.....	93.8	1942-
Whiteface River at Meadowlands, Minn.....	451	1909-12.
Whiteface River below Meadowlands, Minn.....	453	1912-17.
Cloquet River at Independence, Minn.....	750	1909-17.
Lakes in St. Louis River Basin:		
Esquagama Lake near Biwabik, Minn.....	-	1937-40*.
Ely Lake near Eveleth, Minn.....	-	1939-40*.
Perch Lake near Sawyer, Minn.....	-	1938-40*.
Pequaywan Lake near Brimson, Minn.....	-	1938-40*.
Smith Lake near Brimson, Minn.....	-	1939-40*.
Amnicon River near Amnicon Falls, Wis.....	102	1914-16.
Amnicon Lake near South Range, Wis.....	5	1936-#
Bois Brule River at Brule, Wis.....	130	1943-
Bois Brule River near Brule, Wis.....	162	1914-17.
Bad River at Mellen, Wis.....	101	1948-
Bad River near Odanah, Wis.....	616	1914-22; 1948-
White River near Ashland, Wis.....	266	1948-
Montreal River at Ironwood, Mich.....	66	1918-22; 1924-25.
Montreal River near Kimball, Wis.....	109	1924-25.
Montreal River near Saxon, Wis.....	281	1938-
West Branch Montreal River at Gile, Wis.....	78	1918-25; 1942-47.
West Branch Montreal River near Kimball, Wis.....	96	1924-25.
Black River at Ramsay, Mich.....	82	1924-25.
Presque Isle River at Marenisco, Mich.....	175	1945-
Presque Isle River near Tula, Mich.....	260	1945-
Middle Branch Ontonagon River (head of Ontonagon River), near Paulding, Mich.....	175	1942-
Middle Branch Ontonagon River near Trout Creek, Mich.....	225	1942-
Middle Branch Ontonagon River near Rockland, Mich.....	670	1942-
Ontonagon River near Rockland, Mich.....	1,290	1903*; 1942-
Bond Falls Canal near Paulding, Mich.....	-	1942-
East Branch Ontonagon River near Mass, Mich.....	265	1942-
Cisco Branch Ontonagon River (head of South Branch) at Cisco Lake Outlet, Mich.....	50	1944-
Cisco Branch Ontonagon River near Watersmeet, Mich.....	57	1942-44.
South Branch Ontonagon River at Ewen, Mich.....	320	1942-
West Branch Ontonagon River near Bergland, Mich.....	160	1942-
Lakes in Ontonagon River Basin:		
Mamie Lake near Land O' Lakes, Wis.....	18	1938-40*.
Big Lake near Land O' Lakes, Wis.....	32	1938-45*.
Palmer Lake near Land O' Lakes, Wis.....	15	1938-40*.
Tenderfoot Lake near Land O' Lakes, Wis.....	19	1938-40*.
Sturgeon River near Sidnaw (at Old Timber Dam), Mich.....	155	1912-15; 1943- (1912-19; 1927-31)c.
Sturgeon River near Alston (at Prickett Dam), Mich.....	346	1948-; (1932-41)c.

a In reports of Dominion Water and Power Bureau.

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

c In reports of Corps of Engineers.

\* Gage heights or gage heights and discharge measurements only.

\*\* Only monthly figures of discharge or contents.

	<u>Drainage area (square miles)</u>	<u>Period of Record</u>
Streams tributary to Lake Superior--Continued.		
Sturgeon River near Baraga (at Highway 35 Bridge), Mich.	364	1942-48; (1927-31)c.
Sturgeon River near Arnheim, Mich.	680	1942-
Perch River near Sidnaw, Mich.	60	1912-15; (1910-11; 1912-18; 1927-31)c.
Otter River near Elo, Mich.	175	1942-
Dead River near Negaunee, Mich.	-	1902-3.
Dead River at Forestville, Mich.	142	1898-1902.
Carp River near Marquette, Mich.	86	1902-3.
Tahquamenon River at Newberry, Mich.	200	1934-36.
Streams tributary to Lake Michigan:		
South Manistique Lake Outlet (head of Manistique River) at Curtis, Mich.	44	1942-44.
Manistique River near Germfask, Mich.	120	1942-
Manistique River at Germfask, Mich.	341	1938-
Manistique River near Blaney, Mich.	704	1938-
Manistique River near Manistique, Mich.	1,100	1938-
North Manistique Lake Outlet at Helmer, Mich.	15	1942-44.
Fox River at Seney, Mich.	107	1942-44.
East Branch Fox River near Germfask, Mich.	104	1942-44.
Holland Creek near Seney, Mich.	-	1938-42.
Goose Pen Outlet at Germfask, Mich.	-	1939-41.
Grays Creek near Germfask, Mich.	36	1938-40.
Pine Creek near Germfask, Mich.	11	1938-40.
Sand Creek near Germfask, Mich.	6	1938-40.
Driggs River near Seney, Mich.	70	1938-42.
Driggs River near Germfask, Mich.	114	1938-41.
Walsh Creek near Seney, Mich.	12	1938-42.
Marsh Creek near Shingleton, Mich.	-	1938-42.
Marsh Creek near Germfask, Mich.	-	1938-41.
Duck Creek near Blaney, Mich.	-	1938-
West Branch Manistique River near Manistique, Mich.	322	1938-
Creighton River near Shingleton, Mich.	35	1938-42.
Indian River near Manistique, Mich.	302	1938-
Escanaba River near Escanaba, Mich.	800	1903-12; 1913-15*.
Brule River (head of Menominee River) near Florence, Wis.	380	1914-16; 1944-
Menominee River at Twin Falls, near Iron Mountain, Mich.	1,790	1914-
Menominee River near Iron Mountain, Mich.	2,420	1902-14.
Menominee River at Lower Quinnesec Falls, Wis.	2,430	1898-99.
Menominee River at Koss, Mich.	3,780	1907-8; 1909**; 1914.
Menominee River below Koss, Mich.	3,790	1913- (1911-13)c.
Menominee River near McAllister, Wis.	4,020	1945-
Iron River near Iron River (at Riverton Mine), Mich.	63	1900-3; 1904-5*.
Iron River at Caspian, Mich.	-	1948-
Paint River at Crystal Falls, Mich.	616	1944-
Michiganne River near Crystal Falls, Mich.	670	1944-
Pine River near Florence, Wis.	488	1914-23.
Pine River at Pine River power plant, near Florence, Wis.	543	1923-
Pine River at Amberg, Wis.	250	1914-
Peshtigo River at High Falls, near Crivits, Wis.	571	1912-40.
Peshtigo River near Crivits, Wis.	670	1906-9*.
Peshtigo River at Crivits, Wis.	-	1906*.
Oconto River near Gillett, Wis.	678	1906-9; 1914-
Oconto River at Stiles, Wis.	-	1906*.
Wheeler Lake near Lakewood, Wis.	2	1936-*
Boot Lake near Townsend, Wis.	1.5	1936-*
Fox River at Berlin, Wis.	1,430	1898-
Fox River at Omro, Wis.	-	1902-3*.
Fox River at Oshkosh, Wis.	-	1902*.
Lake Winnebago at Oshkosh, Wis.	6,030	1938-*; (1857-1938*)d.
Fox River at Rapide Croche Dam, near Wrightstown, Wis.	6,150	1896-1917**; 1918-
Fox River at Wrightstown, Wis.	6,210	1902-4*.
Silver Lake at Portage, Wis.	1	1936-*
Little Green Lake near Markesan, Wis.	5	1936-*
Wolf River near White Lake, Wis.	482	1935-37.
Wolf River above West Branch of Wolf River, Wis.	633	1928-
Wolf River at Keshena Falls, Wis.	812	1928-
Wolf River at Keshena, Wis.	826	1907-9; 1911-28.
Wolf River at White House Bridge, near Shawano, Wis.	-	1906-7*.

c In reports of Corps of Engineers.

d In files of Corps of Engineers.

\* Gage heights or gage heights and discharge measurements only.

\*\* Only monthly figures of discharge or contents.

	<u>Drainage area (square miles)</u>	<u>Period of Record</u>
Streams tributary to Lake Michigan—Continued.		
Fox River tributaries—Continued.		
Wolf River at Darrows Bridge, near Shawano, Wis.	—	1906*.
Wolf River at New London, Wis.	2,240	1913-
Wolf River at Northport, Wis.	—	1905*.
Wolf River at Winneconne, Wis.	—	1902-3*.
Lucerne (Stone) Lake near Crandon, Wis.	3	1936-38*.
West Branch Wolf River at Neopit, Wis.	108	1911-17.
West Branch Wolf River near Keshena, Wis.	170	1928-31.
Embarress River near Embarrass, Wis.	395	1919-
Little Wolf River at Royalton, Wis.	485	1914-
Little Wolf River near Northport, Wis.	—	1907-10.
Waupaca River near Waupaca, Wis.	305	1917-
Waupaca River near Weyauwega, Wis.	308	1916-17.
Fond du Lac River, West Branch (head of Fond du Lac River), at		
Fond du Lac, Wis.	88	1903*; 1939-
East Branch Fond du Lac River at Fond du Lac, Wis.	75	1903*; 1939-
Lake de Neveu near Fond du Lac, Wis.	2	1936-*
Pigeon River:		
Cedar Lake near Kiel, Wis.	3	1936-42*; 1945-*
Shebogyan River near Shebogyan, Wis.	403	1916-24.
Milwaukee River near Milwaukee, Wis.	661	1914-
Cedar Creek near Cedarburg, Wis.	113	1930-
Little Calumet River (head of Calumet River) at South Holland, Ill.	—	1947-
Little Calumet River at Harvey, Ill.	—	1916-33.
Hart ditch at Munster, Ind.	• 68	1942-
Thorn Creek at Thornton, Ill.	—	1948-
Deer Creek near Chicago Heights, Ill.	—	1948-
Butterfield Creek at Flossmoor, Ill.	—	1948-
North Creek at Lansing, Ill.	—	1948-
Wolf Lake at Chicago, Ill.	—	1939-*
Burns ditch at Gary, Ind.	174	1943-
Deep River at Lake George outlet at Hobart, Ind.	124	1947-
Little Calumet River / at Porter, Ind.	62	1945-
Little Calumet River near McCool, Ind.	• 141	1943-45.**
Salt Creek near McCool, Ind.	73	1945-
Galien River near New Troy, Mich.	47	1945-47.
East Branch Galien River near New Troy, Mich.	19.2	1945-47.
St. Joseph River at Mendon, Mich.	844	1902-5*.
St. Joseph River at Mottville, Mich.	• 1,860	1923-
St. Joseph River at Elkhart Dam at Elkhart, Ind.	• 2,560	(1914-31)**c.
St. Joseph River at Elkhart, Ind.	3,350	1947-
St. Joseph River at South Bend, Ind.	—	(1910-15)**g.
St. Joseph River at Miles, Mich.	3,620	1930-
St. Joseph River near Buchanan, Mich.	• 4,040	1901-6.
St. Joseph River at Berrien Springs, Mich.	• 4,081	(1909-31)**c.
East Branch Coldwater River at Coldwater, Mich.	59	1937-
Fawn River at Orland, Ind.	88.4	1943-47.
Fawn River near White Pigeon, Mich.	—	1903-4.*
Pigeon Creek near Flint, Ind.	106	1945-
Christians Creek at Elkhart, Ind.	111	1946-
Elkhart River at Goshen, Ind.	573	1931-; (1924-27)g.
Kalamazoo River near Albion, Mich.	246	1930-31; 1932-35.
Kalamazoo River at Marshall, Mich.	449	1948-
Kalamazoo River near Battle Creek, Mich.	849	1937-
Kalamazoo River at Comstock, Mich.	1,010	1931; 1932-
Kalamazoo River near Allegan, Mich.	1,470	1901-7.
Kalamazoo River at Calkins Dam (Bridge) near Allegan, Mich.	1,540	1929-36; 1937-
Reeds Springs near Albion, Mich.	—	1904-6.
Battle Creek at Charlotte, Mich.	67	1947-
Battle Creek at Bellevue, Mich.	178	1947-
Battle Creek at Battle Creek, Mich.	241	1930-31; 1932-
Portage Creek at Kalamazoo, Mich.	58	1947-
Grand River at Jackson, Mich.	174	1935-
Grand River at Lansing (North Lansing), Mich.	1,230	1901-6; 1934-
Grand River at Ionia, Mich.	—	1931.
Grand River at Grand Rapids, Mich.	4,900	1897-1900*, **; 1901-5; 1906-18*; 1930-
Grand River near Marne, Mich.	—	1931.
Portage River below Little Portage Lake, near Munith, Mich.	55	1944-

6. In reports of Corps of Engineers.

Measured by Curve of Business.

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

In reports of Indiana Department of Conservation.

g In Reports of Indiana Department of Conservation.  
g Sage heights on sage heights and discharge measurements only.

	<u>Drainage area (square miles)</u>	<u>Period of Record</u>
Streams tributary to Lake Michigan—Continued.		
Grand River tributaries—Continued.		
Portage River near Munith, Mich.	118	1944-46; 1946-48*.
Orchard Creek at Munith, Mich.	49	1944-
Cedar River (Red Cedar River) at East Lansing (at Agricultural College), Michigan	355	1902-3; 1931-; (1911-28*)h.
Lookingglass River near Eagle, Mich.	281	1944-
Maple River at Maple Rapids, Mich.	434	1944-
Fish Creek near Carson City, Mich.	145	1936-38.
Thornapple River near Hastings, Mich.	385	1944-
Thornapple River near Caledonia, Mich.	773	1930-38.
Crockery Creek at Slocums Grove, Mich.	-	1902-3*.
Higgins Lake Outlet (head of Muskegon River) near Roscommon, Mich.	58	1942-
Muskegon River near Merritt, Mich.	309	1946-
Muskegon River at Evart, Mich.	1,450	1930-31; 1934-
Muskegon River at Croton Power Plant near Newaygo, Mich.	2,282	(1908-19)c.
Muskegon River at Newaygo, Mich.	2,350	1901-6; 1930-
Pere Marquette River at Scottville (Custer), Mich.	709	1939-
Big Sable River near Free Soil, Mich.	127	1942-
Little Manistee River near Stronach, Mich.	233	1930-31.
Manistee River near Grayling, Mich.	159	1942-
Manistee River near (at) Sherman, Mich.	900	1903-16; 1930-31; 1934-
Manistee River near Wellston, Mich.	1,450	(1905-07; 1909-16) c.
Boardman River at Traverse City, Mich.	-	1903-04*.
Streams tributary to Lake Huron:		
Sturgeon River (head of Cheboygan River) near Wolverine, Mich.	164	1942-
Indian River (continuation of Sturgeon River) at Indian River, Mich.	583	1942-
Cheboygan River near Cheboygan, Mich.	865	1942-
Pigeon River at Afton, Mich.	159	1942-
Black River near Tower, Mich.	310	1942-
Black River near Cheboygan, Mich.	597	1942-
Rainy River near Onaway, Mich.	79	1942-
Thunder Bay River near Hillman, Mich.	232	1945-
Thunder Bay River near Bolton, Mich.	588	1945-
Thunder Bay River near Alpena, Mich.	1,260	1901-8.
Upper South Branch Thunder Bay River near Lachine, Mich.	171	1945-
North Branch Thunder Bay River near Bolton, Mich.	184	1945-
Lower South Branch Thunder Bay River near Hubbard Lake, Mich.	146	1945-
Au Sable River near Lovells, Mich.	1,000	1908-14.
Au Sable River near Red Oak, Mich.	-	1930-31.
Au Sable River at Bamfield, Mich.	1,420	1902-13.
Au Sable River near Au Sable, Mich.	1,540	1939-40.
Middle Branch Au Sable River at Grayling, Mich.	110	1942-
Rifle River at Michigan Highway 70, near Sterling, Mich.	320	1937-
Rifle River near Sterling, Mich.	385	1905-8*.
Rifle River at Omer, Mich.	364	1902-3.*
Shiawassee River (head of Saginaw River) at Byron, Mich.	170	1948-
Shiawassee River at Owosso, Mich.	538	1931-
Shiawassee River near Fergus, Mich.	637	1940-
Saginaw River at Saginaw, Mich.	6,060	1904-***; (1910-*)h
Flint River at Columbiaville, Mich.	486	1948-; (1932-33)*h
Flint River at Genesee, Mich.	593	1931-
Flint River near (and at) Flint, Mich.	927	1903-4*; 1932-
Flint River near Fosters, Mich.	1,120	1940-; (1910-20*; 1922-27*)h
Farmers Creek near Lapeer, Mich.	57	1933-
Cass River at Cass City, Mich.	370	1948-
Cass River at Frankemuth, Mich.	848	1908-9; 1935-36; 1939-
Cass River at Bridgeport, Mich.	-	1908*.
Tittabawassee River at Midland, Mich.	2,400	1936-
Tittabawassee River at Freeland, Mich.	2,530	1903-9*; 1912-36.
Tobacco River at Beaverton, Mich.	487	1948-
Salt River near North Bradley, Mich.	138	1934-
Kinney Creek near Clare, Mich.	-	1935-36.
Chippewa River near Mount Pleasant, Mich.	416	1930-31; 1932-
Chippewa River near Midland, Mich.	597	1948-
Pine River at Alma, Mich.	288	1930-
Pine River near Midland, Mich.	390	1934-38; 1948-

In reports of Corps of Engineers.

Measured by Corps of Engineers.

In reports of U. S. Weather Bureau.

Gage heights or gage heights and discharge measurements only.

	Drainage area (square miles)	Period of Record
Streams tributary to Lake Huron:--Continued.		
Sebewaing River (State drain) near Sebewaing, Mich.	62	1940-
East Fork Sebewaing River (Columbia drain) near Sebewaing, Mich.	38	1940-
Pigeon River at Pigeon, Mich.	86	1946-
Streams tributary to St. Clair River:		
Black River near Fargo, Mich.	492	1944-
Black River near Port Huron, Mich.	634	1931; 1932-43.
Mill Creek near Abbottsford, Mich.	138	1947-
Streams tributary to Lake St. Clair:		
Clinton River at Pontiac, Mich.	123	1935-40.
Clinton River near Fraser, Mich.	454	1947-
Clinton River at Mount Clemens, Mich.	733	1934-
North Branch Clinton River near Mount Clemens, Mich.	185	1947-
Middle Branch Clinton River near Mount Clemens, Mich.	51	1947-
Streams tributary to Detroit River:		
River Rouge at Detroit, Mich.	194	1930-
Middle River Rouge near Garden City, Mich.	89	1947-
Middle River Rouge at Detroit, Mich.	99	1930-33.
Lower River Rouge at Inkster, Mich.	90	1947-
Lower River Rouge at Dearborn, Mich.	96	1930-33.
Streams tributary to Lake Erie:		
Huron River at Commerce, Mich.	51	1946-
Huron River at Milford, Mich.	125	1948-
Huron River near New Hudson, Mich.	143	1948-
Huron River near Dexter (at Dover), Mich.	506	1904*; 1946-
Huron River at Dexter, Mich.	-	1904-16*.
Huron River at Barton, Mich.	-	1914-
Huron River at Ann Arbor, Mich.	-	1948-
Huron River at Geddes, Mich.	-	1904; 1905**; 1906-14.
Huron River at French Landing, Mich.	-	1904-5.
Huron River at Flat Rock, Mich.	-	1904-11; 1912-22*.
Hayes Creek at Commerce, Mich.	6.1	1946-
Portage Creek near Pinckney, Mich.	79	1944-
Raisin River near Adrian, Mich.	416	1930-31; 1932-38.
Raisin River at Monroe, Mich.	1,020	1937-
Ottawa River:		
Tennille Creek at Toledo, Ohio.	139	1945-
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 Cedarville, Ind.	783	1931-32.
St. Joseph River near Fort Wayne, Ind.	1,060	1941-
St. Joseph River at Fort Wayne, Ind.	-	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.
Maumee River near Defiance, Ohio.	5,530	1924-35; 1939-
Maumee River at Waterville, Ohio.	6,314	1898-1901; 1921-35; 1939-
Cedar Creek at Auburn, Ind.	93	1943-
Cedar Creek near Cedarville, Ind.	279	1946-
St. Marys River near Willshire, Ohio.	355	1923-32.
St. Marys River at Decatur, Ind.	615	1946-
St. Marys River near Fort Wayne, Ind.	753	1930-; (1924-25; 1927)g
St. Marys River at Fort Wayne, Ind.	-	1905-6.
Bean Creek (head of Tiffin River) at Powers, Ohio.	238	1940-
Tiffin River at (and near) Stryker, Ohio.	444	1921-28; 1940-
Tiffin River near Brunersburg, Ohio.	766	1928-35.
Tiffin River near Defiance, Ohio.	-	1903-6.
Auglaize River near Fort Jennings, Ohio.	333	1921-35; 1940-
Auglaize River near Defiance, Ohio.	2,329	1903*; 1915-35; 1940-
Ottawa River at Lima, Ohio.	-	1902-3*.
Ottawa River at Allentown, Ohio.	168	1923-35; 1943-
Ottawa River at Kalida, Ohio.	315	1930-35.
Blanchard River near Findlay, Ohio.	343	1923-35; 1940-
Blanchard River at Ottawa, Ohio.	627	1902-3*.
Blanchard River at Glandorf, Ohio.	643	1921-28; 1947-
Blanchard River near Dupont, Ohio.	749	1928-35.
Eagle Creek near Findlay, Ohio.	46.5	1947-

g In reports of Indiana Department of Conservation.

\* Gage heights or gage heights and discharge measurements only.

\*\* Only monthly figures of discharge or contents.

\*\*\* High water records only.

	Drainage area (square miles)	Period of Record
Streams tributary to Lake Erie—Continued.		
Maumee River tributaries—Continued.		
Auglaize River tributaries—Continued.		
Little Auglaize River:		
Middle Creek:		
Town Creek near Van Wert, Ohio.....	20.4	1945-
Roller Creek at Ohio City, Ohio.....	4.94	1946-
Swan Creek at Toledo, Ohio.....	185	1945-
Miami & Erie Canal at Delphos, Ohio.....	-	1928-33.
Miami & Erie Canal near Defiance, Ohio.....	-	1924-29.
Miami & Erie Canal near Florida, Ohio.....	-	1935.
Miami & Erie Canal at Waterville, Ohio.....	-	1921-29.
Portage River, South Branch, near Pemberville, Ohio.....	334	1930-35.
Portage River at Woodville, Ohio.....	433	1928-35; 1939-
North Branch Portage River near Bowling Green, Ohio.....	54.0	1923-32.
Sandusky River near Bucyrus, Ohio.....	89.8	1925-35; 1938-
Sandusky River near Upper Sandusky, Ohio.....	299	1921-35; 1938-
Sandusky River at Mexico, Ohio.....	-	1898-1900*.
Sandusky River near Mexico, Ohio.....	776	1923-35; 1938-
Sandusky River near Fremont, Ohio.....	1,248	1923-35; 1938-
Sandusky River at Fremont, Ohio.....	-	1898-1901*.
Havens Run near Havens, Ohio.....	5.00	1946-
Huron River:		
East Branch Huron River near Norwalk, Ohio.....	84.9	1923-35.
Black River at Elyria, Ohio.....	392	1944-
Black River near Elyria, Ohio.....	-	1903-6.
East Branch Black River at Elyria, Ohio.....	211	1922-35.
Rocky River near Berea, Ohio.....	269	1923-35; 1943-
Cuyahoga River at Hiram Rapids, Ohio.....	147	1944-
Cuyahoga River near Hiram, Ohio.....	152	1927-35.
Cuyahoga River near Kent, Ohio.....	205	1933-35.
Cuyahoga River at Kent, Ohio.....	302	1927-32.
Cuyahoga River at Old Portage, Ohio.....	405	1921-35; 1939-
Cuyahoga River at Brecksville, Ohio.....	584	1923-24.
Cuyahoga River at Independence, Ohio.....	709	1903-6; 1921-23; 1927-35;
Cuyahoga River at Cleveland, Ohio.....	-	1940-
Congress Lake Outlet near Kent, Ohio.....	76.9	1903*.
Little Cuyahoga River at Mogadore, Ohio.....	12.3	1927-35.
Little Cuyahoga River at Massillon Rd., Akron, Ohio.....	31.0	1946-
Little Cuyahoga River at Akron, Ohio.....	42.0	1920-35; 1939-42.
Springfield Lake Outlet at Akron, Ohio.....	8.40	1946-
Ohio Canal feeder at Brecksville, Ohio.....	-	1923-24.
Ohio Canal at Independence, Ohio.....	-	1921-23; 1927-35.
Chagrin River at Willoughby, Ohio.....	251	1925-35; 1939-
Grand River near North Bristol, Ohio.....	89.7	1942-
Grand River near Rome, Ohio.....	276	1942-
Grand River near Madison, Ohio.....	587	1922-35; 1938-
Phelps Creek near Windsor, Ohio.....	26.4	1942-
Rock Creek near Rock Creek, Ohio.....	56.6	1942-
Mill Creek near Jefferson, Ohio.....	78.3	1942-
Ashtrabula River near Ashtrabula, Ohio.....	118	1924-35; 1939-
Conneaut Creek at Amboy, Ohio.....	178	1922-35.
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-
Streams tributary to Niagara River:		
Tonawanda Creek at Batavia, N. Y.....	172	1944-
Little Tonawanda Creek at Linden, N. Y.....	22.0	1912-19; 1920-
Barge Canal at lock 30, Macedon, N. Y.....	-	1919-20.
Barge Canal at lock 32, Pittsford, N. Y.....	-	1919-21.
Streams tributary to Lake Ontario:		
Oak Orchard Creek near Medina, N. Y.....	143	1903-4.
Genesee River at Scio, N. Y.....	309	1916-
Genesee River at Portageville, N. Y.....	982	1945-
Genesee River at St. Helena, N. Y.....	1,017	1908-
Genesee River at Mount Morris, N. Y.....	1,078	1903-9.
Genesee River at Jones Bridge, near Mount Morris, N. Y.....	1,419	1903-6; 1908-14; 1915-
Genesee River at Avon, N. Y.....	-	1945-#

J Revised.

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Genesee River at Rochester, N. Y.....	J 2,450	1904-19.
Genesee River at Driving Park Avenue, Rochester, N. Y.....	J 2,467	1919-
Canaseraga Creek near Dansville, N. Y.....	J 153	1910-12; 1915-17; 1919-
Canaseraga Creek at Cumminsville, N. Y.....	J 155	1917-19.
Canaseraga Creek at Groveland Station, N. Y.....	J 181	1915-20.
Canaseraga Creek at Shakers Crossing, N. Y.....	J 334	1915-22.
Keshequa Creek at Craig Colony, Sonyea, N. Y.....	J 69.1	1910-12; 1917-32.
Keshequa Creek near Sonyea, N. Y.....	J 76.5	1915-17.
Conesus Creek near Lakeville, N. Y.....	J 72.0	1919-34.
Honeoye Creek at Honeoye Falls, N. Y.....	J 197	1945-
Honeoye Creek at East Rush, N. Y.....	J 238	1903-6.
Hemlock Lake at Hemlock, N. Y.....	J 46.2	1894-1902**.
Canadice Lake Outlet near Hemlock, N. Y.....	J 12.6	1903-
Oatka Creek at Garbutt, N. Y.....	J 208	1945-
Black Creek at Churchville, N. Y.....	J 123	1945-
Seneca River (head of Oswego River) at Baldwinsville, N. Y.....	J 3,130	1898-1908.
Oswego River at Fulton, N. Y.....	J 5,043	1900; 1902.
Oswego River at Battle Island, above Minetto, N. Y.....	J 5,111	1900-6.
Oswego River at High Dam near Oswego, N. Y.....	J 5,120	1897-1901; 1927-28.
Oswego River at lock 7, Oswego, N. Y.....	J 5,121	1933-
Seneca Lake at Geneva, N. Y.....	J 714	1905-6*.
Cayuga Lake at Ithaca, N. Y.....	-	1905-8*.
Fall Creek near Ithaca, N. Y.....	J 124	1908-9; 1925-
Cayuga Inlet near Ithaca, N. Y.....	J 36.7	1937-
Canadaga Lake at Canadaga, N. Y.....	J 189	1939-*
Canadaga Lake Outlet at Chapin, N. Y.....	J 199	1939-
Owasco Lake Outlet near Auburn, N. Y.....	J 208	1912-
Skaneateles Lake at Skaneateles, N. Y.....	J 73.8	1890-91.
Skaneateles Lake Outlet at Willow Glen, N. Y.....	J 75.9	1892-1908.
Skaneateles Lake Outlet at Jordan, N. Y.....	J 90.7	1890-92.
Onondaga Creek at Syracuse, N. Y.....	J 98.2	1939-
Onondaga Lake Outlet at Long Branch, N. Y.....	J 301	1904.
West Branch Onondaga Creek at South Onondaga, N. Y.....	J 20.8	1916-18.
East Branch Fish Creek (through Oneida Lake, head of Oneida River), at		
Fish Creek, near Constableville, N. Y.....	J 74.3	1923-32.
East Branch Fish Creek at Point Rock, N. Y.....	J 109	1898-99.
East Branch Fish Creek at Taberg, N. Y.....	J 189	1923-
Oneida River at Brewerton, N. Y.....	J 1,353	1899.
Oneida River at Caughdenoy, N. Y.....	J 1,377	1910-13; 1947-
Oneida River at Oak Orchard, near Euclid, N. Y.....	J 1,433	1902-9.
West Branch Fish Creek at McConnelsville, N. Y.....	J 192	1898-1901.
Oneida Creek at Kenwood, N. Y.....	J 62.1	1898-1900.
Chittenango Creek at Chittenango, N. Y.....	J 76.0	1901-6.
Chittenango Creek at Bridgeport, N. Y.....	J 311	1898-1901.
Limestone Creek at Fayetteville, N. Y.....	J 85.7	1939-
Salmon River at Stillwater Bridge, near Redfield, N. Y.....	J 188	1911-13.
Salmon River near Pulaski, N. Y.....	J 257	1900-8; 1910-14.
Orwell Brook near Altmar, N. Y.....	J 22.3	1911-16.
Black River near Boonville, N. Y.....	J 295	1911-
Black River near Felts Mills, N. Y.....	J 1,828	1902-13.
Black River at Black River, N. Y.....	J 1,858	1917-20.
Black River at Huntingtonville Dam, near Watertown, N. Y.....	J 1,870	1897-1901.
Black River at Watertown, N. Y.....	J 1,876	1920-
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-
Sugar River at Talcottville, N. Y.....	J 41.5	1926-32.
Moose River at McKeever, N. Y.....	J 365	1922-
Moose River at Moose River, N. Y.....	J 368	1900-22.
Middle Branch Moose River at Old Forge, N. Y.....	J 52.1	1911-
Middle Branch Moose River near McKeever, N. Y.....	J 148	1925-
Otter Creek near Glenfield, N. Y.....	J 64.3	1924-33.
Independence River at Sperryville, N. Y.....	J 85	1927-42.
Independence River at Donnattsburg, N. Y.....	J 91.7	1942-
Stillwater Reservoir near Beaver River, N. Y.....	J 172	1925-*, **
Beaver River at State dam, near Beaver River, N. Y.....	J 172	1908-24.
Beaver River below Stillwater Dam, near Beaver River, N. Y.....	J 172	1924-
Beaver River at Eagle Falls, near Number Four, N. Y.....	J 227	1921-25.

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Beaver River near Croghan, N. Y.....	J	294	1901-3.
Beaver River at Croghan, N. Y.....		294	1930-
Deer River at Copenhagen, N. Y.....	J	88.7	1929-
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East Branch Oswegatchie River (head of Oswegatchie River) at Cranberry Lake, N. Y.....		144	1923-
East Branch Oswegatchie River at Newton Falls, N. Y.....	J	171	1912-23.
East Branch Oswegatchie River near Oswegatchie, N. Y.....		263	1924-
Oswegatchie River near Heuvelton, N. Y.....		973	1916-
Oswegatchie River near Ogdensburg, N. Y.....	J	1,572	1903-16.
West Branch Oswegatchie River near Harrisville, N. Y.....		258	1916-
Grass River at Pyrites, N. Y.....		335	1924-
North Branch Grass River near South Colton, N. Y.....	J	27.3	1924-32.
Raquette River at Raquette Falls, near Coreys, N. Y.....	J	419	1908-12.
Raquette River at Piercfield, N. Y.....		722	1908-
Raquette River at South Colton, N. Y.....	J	927	1904.
Raquette River at Raymondville, N. Y.....		1,131	1943-
Raquette River at Massena Springs, N. Y.....	J	1,197	1903-16.
Bog River near Tupper Lake, N. Y.....		132	1908-12.
St. Regis River at Brasher Center, N. Y.....	J	616	1910-17; 1919-
Deer River at Brasher Iron Works (railroad station), Ironton, N. Y..	J	189	1912-16.
Salmon River at Chasm Falls, N. Y.....		132	1925-
Chateaugay River near Chateaugay, N. Y.....		112	1908; 1926-
Richelieu River (Lake Champlain) at Rouses Point, N. Y.....		8,277	1871-
Lake Champlain at Burlington, Vt.....		-	1907-*
Great Chazy River at Mooers, N. Y.....		204	1908.
Great Chazy River at Perry Mills, N. Y.....	J	247	1928-
Lower Saranac Lake (head of Saranac River) near Saranac Lake, N.Y.	J	146	1928-29*.
Saranac River at Saranac Lake, N. Y.....	J	146	1902-3.
Saranac River at Saranac, N. Y.....		521	1930-43.
Saranac River at (and near) Plattsburg, N. Y.....	J	608	1903-30; 1943-
West Branch Ausable River (head of Ausable River) near Newman, N. Y.....		116	1916-17; 1919-
Ausable River at Ausable Forks, N. Y.....	J	445	1910-25.
Ausable River near Ausable Forks, N. Y.....		448	1924-
Ausable River at Keeseville, N. Y.....	J	473	1904; 1908.
Black Brook at Black Brook, N. Y.....		49.4	1924-
East Branch Ausable River at Ausable Forks, N. Y.....	J	198	1924-
Bouquet River at Willsboro, N. Y.....	J	275	1904; 1908; 1923-
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.....	J	234	1904-5; 1942-
Poultney River near Fair Haven, Vt.....		74	1908.
Poultney River below Fair Haven, Vt.....		187	1928-
Mettawee River at Whitehall, N. Y.....		-	1908.
Otter Creek at Center Rutland, Vt.....		307	1928-
Otter Creek at Middlebury, Vt.....		628	1903-7; 1910-20; 1928-
East Creek near Rutland, Vt.....		47	1911-13*.
East Creek at Rutland, Vt.....		51.1	1940-
Winooski River above Stevens Branch, near Montpelier, Vt.....		196	1909-10; 1911*; 1913*.
Winooski River at Montpelier, Vt.....		397	1909-23; 1928-
Winooski River at Richmond, Vt.....		985	1903-7; 1910.
Winooski River near Essex Junction, Vt.....		1,044	1928-
Winooski River near Winooski, Vt.....		1,080	1903.
Mollys Brook near Marshfield, Vt.....		24	1920-23.
Stevens Branch Winooski River near Montpelier, Vt.....		130	1910*.
East Barre Detention Reservoir at East Barre, Vt.....		38.8	1936*; 1938-44*, **;
Jail Branch at East Barre, Vt.....		40.4	1945-**
Wrightsville Detention Reservoir at Wrightsville, Vt.....		66.5	1920-23; 1933-
North Branch Winooski River at Wrightsville, Vt.....		69.2	1936*; 1938-44*, **;
North Branch (Worcester Branch) Winooski River at Montpelier, Vt		78	1945-**
Dog River at Northfield, Vt.....		52	1933-
Dog River at Northfield Falls, Vt.....		76.1	1909-14.
Dog River near Montpelier Junction, Vt.....		88	1909-20; 1928-34.

J Revised.

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Huntington River at Jonesville, Vt.....	55	1910*.
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Lamoille River at Johnson, Vt.....	310	1910-13; 1928-
Lamoille River at East Georgia (near Milton), Vt.....	686	1929-
Lamoille River at West Milton, Vt.....	715	1903*.
Green River at Garfield, Vt.....	18	1915-21; 1922-32.
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Missisquoi River at Richford, Vt.....	-	1909-10*.
Missisquoi River near Richford, Vt.....	479	1911-23; 1928-
Missisquoi River at Swanton, Vt.....	850	1903*.
St. Francis River:		
Lake Memphremagog at Newport, Vt.....	-	1931-*
Clyde River at Newport (West Derby), Vt.....	142	1909-24; 1928-36; 1938-

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Stillwater Reservoir, N. Y.....	8	Waterbury Reservoir, Vt.....	10
Stone Lake, Wis.....	4	Waterbury River, Vt.....	10
Sturgeon River, Mich. (tributary to Cheboygan River).....	5	Waupaca River, Wis.....	4
Sturgeon River, Mich. (tributary to Lake Superior).....	2	West Branch or Fork. See name of main stream.	
Sugar River, N. Y.....	8	Wheeler Lake, Wis.....	3
Swan Creek, Ohio.....	7	White River, Wis.....	2
Tahquamenon River, Mich.....	3	Whiteface River, Minn.....	2
Tenderfoot Lake, Wis.....	2	Winnebago, Lake, Wis.....	3
Termile Creek, Ohio.....	6	Winooski River, Vt.....	9
Thorn Creek, Ill.....	4	Winooski River, North Branch, Vt.....	9
Thornapple River, Mich.....	5	Winooski River, Stevens Branch, Vt.....	9
Thunder Bay River, Mich.....	5	Winooski River, Worcester Branch, Vt.....	9
Thunder Bay River, Lower South Branch, Mich.....	5	Wolf Lake, Ill.....	4
Thunder Bay River, North Branch, Mich.....	5	Wolf River, Wis.....	3
Thunder Bay River, Upper South Branch, Mich.....	5	Wolf River, Little, Wis.....	4
		Wolf River, West Branch, Wis.....	4
		Wrightsville Detention Reservoir, Vt.....	9

