

GEOLOGICAL SURVEY CIRCULAR 385



INDEX OF SURFACE-WATER RECORDS
TO SEPTEMBER 30, 1955

PART 5.—HUDSON BAY AND UPPER MISSISSIPPI
RIVER BASINS

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

GEOLOGICAL SURVEY
Thomas B. Nolan, *Director*

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INDEX OF SURFACE-WATER RECORDS TO SEPTEMBER 30, 1955

PART 5.—HUDSON BAY AND UPPER MISSISSIPPI RIVER BASINS

By H. F. Matthai

EXPLANATION

This index lists the streamflow and reservoir stations in the Hudson Bay and upper Mississippi River basins 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 indentation 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 indentation 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 22 to 26.

HUDSON BAY BASIN

<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
Lake Winnipeg (head of Nelson River):		
<u>Saskatchewan River basin</u>		
Belly River at international boundary.	74.8	1947-
North Fork Belly River at international boundary.. . .	10.1	1947-55.
Mountain View Irrigation District Canal near Mountain View, Alberta	-	1949- ; (1935-48) <u>a/</u> .
Belly River near Mountain View, Alberta.	121	1948- ; (1911-47) <u>a/</u> .
Waterton River near international boundary	61.0	1947-
Street Creek at international boundary	b/6.0	1947-55.
Boundary Creek at international boundary.	21.0	1947-
Waterton River near Waterton Park, Alberta	238	1948- ; (1908-33) <u>a/</u> .
St. Mary (Upper St. Mary) Lake (head of St. Mary River) near St. Mary (at St. Mary Chalet), Mont.	-	1929- * ‡
Swiftcurrent Creek: Grinnell Creek near Many Glacier, Mont.	3.47	1949-
Swiftcurrent Creek at Many Glacier (McDermott Lake), Mont.	31.4	1912-
Canyon Creek near Many Glacier, Mont.	7.0	1918-37.
Lake Sherburne (Sherburne Lake Reservoir) at Sherburne (near Babb), Mont.	63.7	1915; 1917-18; 1921-52; 1953- †
Swiftcurrent Creek at Sherburne (Sherburne Lake), Mont.	63.7	1912-
Swiftcurrent Creek near Babb (formerly Wetzel), Mont..	101	1902-10.
Lower St. Mary Lake near Babb, Mont.	-	1929- * ‡
St. Mary River near Babb (at damsite, near St. Mary), Mont.	278	1902-25; 1929-32; 1934-
St. Mary Canal at intake, near Babb, Mont.	-	1918-50.
St. Mary Canal at St. Mary crossing, near Babb, Mont..	-	1918-
St. Mary Canal at Hudson Bay Divide, near Browning, Mont.	-	1917-
St. Mary River below Swiftcurrent Creek, at Babb, Mont..	298	1901-2; 1910-15.
Kennedy Creek near Babb (formerly Wetzel), Mont. . . .	b/50	1903-7*; 1911-12*.
St. Mary River near Kimball (Cardston), Alberta. . . .	497	1902-
<u>Red River of the North basin</u>		
Otter Tail River (head of Red River of the North) near Detroit Lakes, Minn.	270	1937-
Otter Tail River at German Church (near Fergus Falls), near Fergus Falls, Minn.	b/1,230	1904-17.
<u>Lakes in Otter Tail River basin above Pelican River:</u>		
Little Bemidji Lake near Ponsford, Minn.	-	1938-39*; 1939-47* ††.
Many Point Lake near Ponsford, Minn.	-	1933-35*; 1938-45*.
Round Lake near Ponsford, Minn.	-	1938-47*.
Ice Cracking Lake near Ponsford, Minn.	-	1938-39*; 1940-46* ††.
Height of Land Lake near Detroit Lakes, Minn.	-	1938- *
Acorn Lake near Frazee, Minn.	-	1937-39*; 1940-46* ††.
Wimar Lake near Frazee, Minn.	-	1937-39*; 1940-47* ††.
Rose Lake near Vergas, Minn.	-	1937-38*; 1940-47* ††.
Long Lake (Otter Tail County) near Vergas, Minn. . . .	-	1937-39*; 1940-46* ††.
Little Pine Lake near Perham, Minn.	-	1937-47*.
Little Toad Lake near Ponsford, Minn.	-	1937-39*; 1939-47* ††.
Pine Lake near Perham, Minn.	-	1934-47*.
Rush Lake near Otter Tail, Minn.	-	1934-48*.
Marion Lake near Richville, Minn.	-	1944-47*.
Otter Tail Lake near Battle Lake, Minn.	-	1933-49*.
East Battle Lake near Clitherall, Minn.	-	1937-42*; 1942-47* ††.
Twin Lakes near Amor, Minn.	-	1935-36*.
Wall Lake near Fergus Falls, Minn.	-	1938-39*; 1940-47* ††.
Pelican River near Detroit Lakes, Minn.	123	1942-53.
Pelican River near Fergus Falls, Minn.	482	1909-12; 1942-
<u>Lakes in Pelican River basin:</u>		
Long Lake (Becker County) near Detroit Lakes, Minn. .	-	1937-39*.
Detroit Lake near Detroit Lakes, Minn.	-	1937-39*; 1940-47* ††.
Sallie Lake at Shoreham, Minn.	-	1937-39*; 1939-47* ††.
Melissa Lake near Shoreham, Minn.	-	1937- *
Pelican Lake near Pelican Rapids, Minn.	-	1938-47*.
Lida Lake near Pelican Rapids, Minn.	-	1942-44*; 1946-47* ††.
Lizzie Lake near Pelican Rapids, Minn.	-	1938-48*.
Prairie Lake near Pelican Rapids, Minn.	-	1937-39*; 1939-47* ††.
Long Lake near Elizabeth, Minn.	-	1937-39*; 1940-47* ††.

* Gage heights or gage heights and discharge measurements only.

† Monthly figures of contents only.

‡ Fragmentary record.

†† Unpublished.

a/ In reports of Department of Northern Affairs and National Resources, Canada.b/ Approximately.

<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
Lake Winnipeg--Continued.		
Red River of the North basin--Continued.		
Otter Tail (Red) River near Fergus Falls, Minn.	b/1,690	1909-10* †.
Otter Tail River below Orwell Dam (below Pelican River), near Fergus Falls, Minn.	b/1,830	1930-
Otter Tail River at Breckenridge, Minn.	b/2,040	1931-32; 1939-46* ††.
Mustinka River (head of Bois de Sioux River) near Norcross, Minn.	-	1940-47*
Mustinka ditch above West Branch Mustinka River (Twelve Mile Creek) near Charlesville, Minn. . .	-	1943-55.
West Branch Mustinka River:		
Mustinka ditch below West Branch Mustinka River (Twelve Mile Creek) near Charlesville, Minn..	-	1943-55.
West Branch Mustinka River (Twelve Mile Creek) below Mustinka ditch, near Charlesville, Minn..	-	1943-55.
Mustinka River above (near) Wheaton, Minn.	834	1916-17; 1919-24; 1931-
Lake Traverse near Browns Valley, Minn.	-	1936-46*
Bois de Sioux River near White Rock, S. Dak.	b/1,160	1941-
Bois de Sioux River near Fairmount, N. Dak. (Tenny, Minn.)	b/1,540	1919-44.
Rabbit Creek at Campbell, Minn.	266	1942-50.
Red River of the North at Wahpeton, N. Dak.	b/4,010	1942-
Wild Rice River near Mantador, N. Dak.	c/1,540	1944-51; 1952-
Antelope Creek at Dwight, N. Dak.	267	1944-49; 1952-
Wild Rice River near Abercrombie, N. Dak.	d/2,170	1932-
Wild Rice River near Wild Rice, N. Dak.	d/2,370	1919.
Red River of the North at Fargo, N. Dak.	d/6,800	1901-
Sheyenne River above Harvey, N. Dak.	170	1953-
Sheyenne River near Harvey, N. Dak.	562	1945-
Sheyenne River at Sheyenne, N. Dak.	b/1,830	1929-33; 1939-51.
Sheyenne River near Warwick, N. Dak.	b/2,100	1949-
Devils Lake near Devils Lake, N. Dak.	b/3,400	1901- *
Sheyenne River near Cooperstown, N. Dak.	e/6,780	1945-
Lake Ashtabula at Baldhill Dam, N. Dak.	e/7,900	1949- †
Sheyenne River below Baldhill Dam, N. Dak.	e/7,900	1949-
Sheyenne River at Valley City, N. Dak.	e/8,200	1919; 1938-
Sheyenne River near Kindred, N. Dak.	e/9,170	1949-
Sheyenne River at West Fargo (Haggart), N. Dak. . . .	e/9,270	1902-7; 1919; 1929-
Maple River at Mapleton, N. Dak.	b/1,480	1944-
Rush River at Amenla, N. Dak.	107	1946-
Buffalo River near Hawley, Minn.	322	1945-
South Branch Buffalo River at Sabin, Minn.	522	1945-
Buffalo River near Dilworth, Minn.	b/1,040	1931-
Wild Rice River at Twin Valley, Minn.	888	1909-17; 1930-
Wild Rice River near Ada, Minn.	-	1948-53.
South Branch Wild Rice River near Borup, Minn. . . .	254	1944-49.
Wild Rice River at Hendrum, Minn.	b/1,600	1944-
Red River of the North at Halstad, Minn.	e/21,800	1936-37; 1942-
Goose River:		
Beaver Creek near Hatton, N. Dak.	175	1954-
Goose River near Portland, N. Dak.	531	1939-
South Fork Goose River near Portland, N. Dak. . . .	362	1939-42.
Goose River at Hillsboro, N. Dak.	b/1,220	1931-
Marsh River below Ada, Minn.	-	1948-52.
Marsh River near Shelly, Minn.	151	1944-
Sand Hill River at Beltrami, Minn.	324	1943-
Sand Hill ditch at Beltrami, Minn.	-	1943-
Sand Hill River at Climax, Minn.	405	1943-
Lakes Between Sheyenne River and Red Lake River:		
Buffalo Lake at Richwood, Minn.	-	1937-39*; 1939-46* ††.
Lower Rice Lake near Zerkel (Rice Lake near Bagley), Minn.	-	1935-39*; 1940-47* ††.
Rockstad Lake near Lake Itasca, Minn.	-	1938-39*; 1940-47* ††.
Tamarack Lake near Bagley, Minn.	-	1937-39*; 1939-46* ††.
South Twin Lake (Twin Lake) near Naytahwausch, Minn.	-	1937-47*.
Sargent Lake near Naytahwausch, Minn.	-	1939*; 1939- * ††
McCraney Lake near Waubon, Minn.	-	1937-39*; 1941-47* ††.

* Gage heights or gage heights and discharge measurements only.

† Monthly figures of discharge or contents only.

‡ Fragmentary record.

†† Unpublished.

b/ Approximately.

c/ Approximately, includes about 380 sq mi which are probably noncontributing.

d/ Approximately, includes about 530 sq mi which are probably noncontributing.

e/ Approximately, includes 3,940 sq mi in closed Devils Lake basin.

<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
Lake Winnipeg--Continued.		
<u>Red River of the North basin--Continued.</u>		
Lakes Between Sheyenne River and Red Lake River--Continued.		
White Earth Lake near White Earth, Minn.	-	1937-39*; 1939-40* ++; 1942-47* ++.
Upper Red Lake (head of Red Lake River) at Waskish, Minn.	-	1930-33*; 1940-46* ++.
Lower Red Lake (Red Lake) near Red Lake (at Redby), Minn.	-	1930- *
Red Lake River near Red Lake, Minn.	b/1,950	1933-
Red Lake River at High Landing, near Goodridge, (at Kratka), Minn.	b/2,300	1929-
Thief River near Gatzke, Minn.	-	1953-
Thief River near Thief River Falls, Minn.	959	1909-17; 1920-21; 1922-24; 1928-
Red Lake River at Thief River Falls, Minn.	b/3,450	1909-18; 1920-30.
Clearwater River near Pinewood, Minn.	132	1940-45.
Clearwater River near Leonard, Minn.	153	1934-47.
Clearwater River at Plummer, Minn.	512	1939-
Clearwater River at Red Lake Falls, Minn.	b/1,370	1909-17; 1934-
Red Lake River at Crookston, Minn.	b/5,280	1901-
Lakes in Red Lake River basin:		
Blackduck Lake near Blackduck, Minn.	-	1938-42*; 1942-47* ++.
Thief Lake (Thief River) near Middle River, Minn.	-	1933-46*.
Clearwater Lake near Leonard, Minn.	-	1934-47*.
Connection Lake near Fosston, Minn.	-	1938*; 1940-47* ++.
Cross Lake near Fosston, Minn.	-	1938*; 1941-47* ++.
Maple Lake near Mentor, Minn.	-	1941-46*.
Red River of the North at Grand Forks, N. Dak.	e/30,100	1901-; (1882-1900)f/.
Turtle River at Manvel, N. Dak.	602	1945-
Red River of the North at Oslo, Minn.	e/31,200	1936-37; 1941-
Forest River near Fordville, N. Dak.	b/500	1940-
Forest River near Minto, N. Dak.	538	1932-44.
Forest River at Minto, N. Dak.	b/740	1944-
Snake River at Warren, Minn.	-	1945; 1953-
Snake River at Alvarado, Minn.	-	1945; 1953-
Snake River near Argyle, Minn.	-	1945.
Middle River near Strandquist, Minn.	-	1953-
Middle River at Argyle, Minn.	-	1945; 1950-
South Branch Park River near Park River, N. Dak.	214	1940-50.
Homme Reservoir near Park River, N. Dak.	229	1949- †
South Branch Park River below Homme Dam, N. Dak.	229	1949-
North Branch Park River:		
Cart Creek at Mountain, N. Dak.	16.9	1954-
Park River at Grafton, N. Dak.	742	1931-
Tamarac River near Strandquist, Minn.	-	1953-
Tamarac River at Stephen, Minn.	-	1945.
Tamarac River near Stephen, Minn.	-	1945; 1953-55.
Red River of the North at Drayton, N. Dak.	e/34,800	1936-37; 1941-49#; 1949-
Two Rivers (Middle Fork Two Rivers)		
near Hallock, Minn.	131	1931-38.
South Branch (Fork) Two Rivers at Pelan, Minn.	-	1928-38; 1953-
Bronson Lake near Lake Bronson (Bronson), Minn.	-	1938-47*.
South Branch (Fork) Two Rivers at Lake Bronson (Bronson), Minn.	444	1928-37; 1941-47; 1953-
South Branch Two Rivers (Two Rivers) at Hallock, Minn.	-	1938-39*; 1939-47* ++.
Two Rivers (South Branch Two Rivers) at Hallock, Minn.	625	1911-14; 1929-30; 1942-43.
Two Rivers below Hallock, Minn.	644	1945-55.
North Branch Two Rivers near Lancaster, Minn.	b/32	1929-38; 1941-55.
State ditch 85 near Lancaster, Minn.	b/95	1929-38; 1942-55.
North Branch Two Rivers at Lancaster, Minn.	209	1941-42; 1953-
North Branch Two Rivers near Northcote, Minn.	386	1941-42; 1945-51.
Two Rivers below North Branch, near Hallock, Minn.	b/1,060	1941-43.
Pembina River:		
Whitemud Creek:		
Lake Upsilon near St. John, N. Dak.	-	1931-33*.

* Gage heights or gage heights and discharge measurements only.

† Monthly figures of discharge or contents only.

Fragmentary record.

++ Unpublished.

b/ Approximately.

e/ Approximately, includes 3,940 sq mi in closed Devils Lake basin.

f/ In reports of Minnesota State Drainage Commission.

<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
Lake Winnipeg--Continued.		
Red River of the North basin--Continued.		
Pembina River near Manitou, Manitoba	b/2,090	1929- ; (1921-29)a/.
Pembina River near Walhalla, N. Dak.	3,109	1939-
Pembina River at Neche, N. Dak.	3,189	1903-15; 1919-
Tongue River:		
Herzog Creek near Concrete, N. Dak.	18.9	1954-
Tongue River at Akra, N. Dak.	148	1950-
Tongue River at Cavalier, N. Dak.	153	1938-51.
Tongue River near Pembina, N. Dak.	491	1939-42.
Red River of the North at Emerson, Manitoba.	e/40,200	1902; 1929- ; (1912-29)a/.
Roseau River near Malung, Minn.	252	1939-46.
Roseau River at Malung, Minn.	-	1928-38.
South Fork (West Branch) Roseau River near Malung, Minn.	312	1911-14; 1928-46.
Roseau River below South Fork, near Malung, Minn.	571	1946-
Roseau River at Roseau, Minn.	-	1940-47* †.
Roseau River near Roseau, Minn.	-	1930- *
Sprague (Mud) Creek near Sprague, Manitoba.	151	1928-
Roseau River at Roseau Lake, Minn.	-	1939- *
Pine Creek near Pine Creek, Minn.	74.6	1928-53.
Roseau River at Ross, Minn.	b/1,220	1928-
Roseau River near Badger, Minn.	-	1928- *
Roseau River near Duxby, Minn.	-	1929- * †
Badger Creek near Badger, Minn.	-	1929-30; 1931-38.
Roseau River near Haug, Minn.	-	1932- *
Roseau River at outlet of State ditch 69, near Oak Point, Minn.	-	1939-42*.
Roseau River at head of State ditch 51, near Oak Point, Minn.	-	1933-42*.
Roseau River at Oak Point, Minn.	-	1933-39*; 1941- *
Roseau River at Caribou, Minn.	-	1917; 1920-30.
Roseau River below State ditch 51, near Caribou, Minn.	b/1,570	1929-
Roseau River at international boundary, near Caribou, Minn.	b/1,590	1933- *
Roseau River at Dominion City, Manitoba	-	1912.
Assiniboine River:		
Souris River:		
Long Creek near Crosby, N. Dak.	g/1,800	1943-
Souris (Mouse) River near Sherwood, N. Dak.	b/9,570	1930-
Souris River at McKinney, N. Dak.	-	1933*.
Souris River near Carpio, N. Dak.	-	1933*.
Lake Darling near Foxholm, N. Dak.	b/10,100	1937- †
Souris River near Foxholm, N. Dak.	b/10,100	1904-5; 1906*; 1937-
Des Lacs River at Foxholm, N. Dak.	973	1904-6; 1945-
Souris River at Burlington, N. Dak.	-	1933*.
Souris River above (at) Minot, N. Dak.	b/11,300	1903-24; 1927-28; 1929- ; (1924-27; 1928-29)h/.
Souris River near Minot, N. Dak.	b/11,600	1928-29; 1933*.
Souris River at Logan, N. Dak.	-	1933*.
Souris River at Sawyer, N. Dak.	-	1933*.
Souris River at Velva, N. Dak.	-	1933*.
Souris River near Verendrye, N. Dak.	b/12,200	1933*; 1937-
Wintering River near Karlsruhe, N. Dak.	675	1937-
Souris River near Denbigh, N. Dak.	-	1933*.
Souris River near (at) Towner, N. Dak.	b/13,100	1933-38; 1938-41*.
Souris River near Bantry, N. Dak.	b/13,400	1937-
Willow Creek at Dunseith, N. Dak.	142	1953-
Oak Creek:		
Lake Metigoshe near Bottineau, N. Dak.	-	1931-32*; 1953- *
Souris River near Upham, N. Dak.	-	1933*.
Souris River near Westhope, N. Dak.	b/17,600	1929-

* Gage heights or gage heights and discharge measurements only.

† Monthly figures of discharge or contents only.

Fragmentary record.

a/ In reports of Department of Northern Affairs and National Resources, Canada.

b/ Approximately.

e/ Approximately, includes 3,940 sq mi in closed Devils Lake basin.

g/ Approximately, includes about 1,200 sq mi which are probably noncontributing.

h/ In reports of State engineer of North Dakota.

<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
Lake Winnipeg--Continued.		
<u>Lake of the Woods basin (head of Winnipeg River)</u>		
<u>Namakan River (head of Rainy River):</u>		
Basswood River:		
Kawishiwi River:		
South Kawishiwi River:		
Isabella River near Isabella, Minn.	341	1952-
South Kawishiwi River near Ely, Minn.	-	1951-
Stoney River near Isabella, Minn.	-	1952-
Dunka River near Babbitt, Minn.	-	1952-
Bear Island River near Ely, Minn.	-	1952-
Kawishiwi River near Winton, Minn.	b/1,200	1905-1907; 1912-19; 1923-
Basswood River near Winton, Minn.	b/1,740	1931- ; (1924;1925-30)a/.
Namakan River at outlet of Lac la Croix, Ontario. . .	5,165	1934- ;(1921-34)a/.
Vermilion River:		
Pike River near Embarrass, Minn.	-	1953-
Vermilion River below Vermilion Lake, near		
Tower, Minn.	483	1911-17; 1928-
Rainy River at International Falls, Minn.	b/14,530	1907-17.
Little Fork River:		
Sturgeon River (Lake) at Side Lake, Minn.	-	1938-47*.
Sturgeon River near Chisholm, Minn.	187	1942-
Dark River near Chisholm, Minn.	b/54	1942-
Little Fork River at Little Fork, Minn.	b/1,730	1909-17; 1928-
Big Fork River at Big Falls, Minn.	b/1,460	1909-12; 1928-
Big Fork River at Laurel, Minn.	-	1909.
Black River near Loman, Minn.	-	1909.
Rainy River at Manitou Rapids, Minn.	b/19,400	1934-
Rainy River near Birchdale, Minn.	-	1932-34; (1911-24*; 1928-30)i/.
Lakes in Rainy River basin:		
Rainy Lake at Fort Frances, Ontario (Ranier, Minn.)	-	1910-17*; 1934- †; (1917-34*)a/.
Burntside Lake near Ely, Minn.	-	1933-35*; 1947- * ††
Vermilion Lake near Soudan, Minn.	-	1913-15†; 1941-42†; 1946- †
Pelican Lake at Orr, Minn.	-	1938-47*.
Kabetogama Lake near Ray, Minn.	-	1933-47*.
Sand Lake near Brittmount (Sand Lake), Minn. . . .	-	1938-39*; 1940-47* ††.
Bear Lake near Side Lake (Greenrock), Minn. . . .	-	1938-39*; 1944-47* ††.
Thistledew Lake near Side Lake, Minn.	-	1938-39*; 1939-43* ††.
Deer Lake Outlet (Deer Lake) near Effie, Minn. . .	-	1937-39*; 1939-46* ††.
Busties Lake near Effie, Minn.	-	1939*; 1941-46* ††.
Warroad River near Warroad, Minn.	110	1946-
Bulldog Run near Warroad, Minn.	14.2	1946-51.
East Branch Warroad River near Warroad, Minn. . .	102	1946-54.

UPPER MISSISSIPPI RIVER BASIN

Lake Itasca (head of Mississippi River) at		
Lake Itasca, Minn.	-	1933-47*.
Bemidji Lake at Bemidji, Minn.	-	1940-46*.
Winnibigoshish Reservoir near Deer River, Minn. . .	1,442	1941- †; (1884-1941†)i/.
Mississippi River at Winnibigoshish Dam, near Deer River, Minn.	1,442	1941- ; (1884-1941)i/.
Lakes above Leech Lake River:		
Heart Lake near Lake Itasca, Minn.	-	1937-39*; 1940-43* ††.
Long Lake near Lake Itasca, Minn.	-	1937-39*; 1939-44* ††.
Sucker Lake near Lake Itasca, Minn.	-	1938-39*; 1940-43* ††; 1946* ††.
Little Wolf Lake near Cass Lake, Minn.	-	1938-39*; 1941* ††; 1942* ††; 1945-47* ††.
Little Turtle Lake near Turtle River, Minn. . . .	-	1938-39*; 1940-47* ††.
Movil Lake near Turtle River, Minn.	-	1938-47*.
Three Island Lake near Black Turtle River, Minn. .	-	1937-39*; 1939-47* ††.
Rabideau Lake near Blackduck (Turtle River), Minn. .	-	1938-39*; 1939-47* ††.
Leech Lake River basin		
Leech Lake Reservoir at Federal Dam, Minn.	1,163	1941- †; (1884-1941†)i/.

* Gage heights or gage heights and discharge measurements only.

† Monthly figures of discharge or contents only.

†† Unpublished.

a/ In reports of Department of Northern Affairs and National Resources, Canada.

b/ Approximately.

i/ In files of St. Paul office of Corps of Engineers.

UPPER MISSISSIPPI RIVER BASIN

7

<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
Mississippi River--Continued.		
Leech Lake River basin--Continued.		
Leech Lake River at Federal Dam, Minn.	1,163	1929; 1941- ; (1884-1941) <u>1/</u> .
Lakes in Leech Lake River basin:		
Blackwater Lake near Backus (Pontoria), Minn.	-	1938-44*; 1946-47*.
McKeown Lake near Longville, Minn.	-	1937-39*; 1939-45* <u>††</u> .
Little Boy Lake near Longville, Minn.	-	1937-39*; 1939-45* <u>††</u> .
Lower Trelipe Lake near Longville, Minn.	-	1938-47*.
Six Mile Lake near Bena, Minn.	-	1939*; 1939-41* <u>††</u> ; 1943-46* <u>††</u> .
Mud Lake near Ball Club (Deer River), Minn.	-	1938-44*; 1946-47*.
Mississippi River near Deer River, Minn.	b/3,190	1945-50.
Pokegama Reservoir near Grand Rapids, Minn.	3,265	1941- <u>†</u> ; (1884-1941 <u>†</u>) <u>1/</u> .
Mississippi River at Grand Rapids (at Pokegama Dam, near Grand Rapids), Minn.	b/3,370	1941- ; (1883-1941) <u>1/</u> .
Lakes between Leech Lake River and Prairie River:		
Ballclub Lake near Ballclub, Minn.	-	1937-47*.
Deer Lake near Deer River, Minn.	-	1938-47*.
Bass Lake near Cohasset, Minn.	-	1938-42*; 1942-47* <u>††</u> .
Prairie River basin		
Prairie River near Grand Rapids, Minn.	485	1909*; (1925-1949 <u>†</u>) <u>1/</u> .
Lakes in Prairie River basin:		
Wolf Lake near Nashwauk, Minn.	-	1939*; 1939-42* <u>††</u> .
Hartley Lake near Hashwauk, Minn.	-	1939*; 1939-47* <u>††</u> .
Buck Lake near Nashwauk, Minn.	-	1938-39*; 1940-43* <u>††</u> .
Balsam Lake near Nashwauk, Minn.	-	1938-39*; 1939-47* <u>††</u> .
Lakes between Prairie River and Swan River:		
Cowhorn Lake near Grand Rapids, Minn.	-	1937-39*; 1939-42* <u>††</u> .
Splithand Lake near Hill City, Minn.	-	1938-39*; 1939-47* <u>††</u> .
Little Splithand Lake near Grand Rapids, Minn.	-	1937-42*; 1942-47* <u>††</u> .
Swan River basin		
Swan River near Warba, Minn.	254	1953-
Swan River near Swan River, Minn.	b/290	1929.
Mississippi River above Sandy River, near Libby, Minn.	b/4,560	1895-1915; 1925-28; 1929.
Sandy River basin		
Sandy Lake Reservoir at Libby, Minn.	421	1941- <u>†</u> ; (1895-1941 <u>†</u>) <u>1/</u> .
Sandy River at (below) Sandy Lake Dam, at Libby, Minn. (below Sandy Lake Reservoir)	421	1893-1916; 1941- ; (1895-1941) <u>1/</u> .
Lakes in Sandy River basin:		
Prairie Lake near Cromwell, Minn.	-	1937-39*; 1939-47* <u>††</u> .
Minnewawa Lake near McGregor, Minn.	-	1938-47*.
Mississippi River below Sandy River, near Libby, Minn.	b/5,060	1930-
Willow River basin		
Willow River near Palisade, Minn.	442	1929.
Lakes between Willow River and Mud River:		
Hill Lake near Hill City, Minn.	-	1937-47*.
Dam Lake near Aitkin, Minn.	-	1938-47*.
Rabbit Lake near Glen, Minn.	-	1938-39*; 1939-46* <u>††</u> .
Mud River basin		
Mud River near Wealthwood, Minn.	-	1937-39*.
Lakes in Mud River basin:		
Rice Lake near Garrison, Minn.	-	1938-39*; 1940-47* <u>††</u> .
Crooked Lake near Garrison, Minn.	-	1937-47*.
Bay Lake near Bennetville, Minn.	-	1937-51*.
Long Lake near Bennetville, Minn.	-	1937-47*.
Pine Lake near Aitkin, Minn.	-	1937-47*.
Spirit Lake near Bennetville, Minn.	-	1938-47*.
Mud Lake near Aitkin, Minn.	-	1937-39*; 1939-47* <u>††</u> .
Hanging Kettle Lake near Aitkin, Minn.	-	1937-39*; 1939-48* <u>††</u> .
Mississippi River at Aitkin, Minn.	b/6,140	1945-
Lakes in Little Willow River basin:		
Waukenabo Lake near Bain, Minn.	-	1937-39*; 1939-47* <u>††</u> .
Esquagamah Lake near Bain, Minn.	-	1938-47*.
Lakes between Little Willow River and Pine River:		
Cedar Lake near Aitkin, Minn.	-	1937-47*.
Rogers Lake near Emily, Minn.	-	1938-39*; 1940-47* <u>††</u> .
Upper Dean Lake near Emily (Crosby), Minn.	-	1937-39*; 1939-47* <u>††</u> .

* Gage heights or gage heights and discharge measurements only.

† Monthly figures of discharge or contents only.

†† Unpublished.

b/ Approximately.

1/ In files of St. Paul office of Corps of Engineers.1/ Bulletin No. 5, Minnesota Department of Conservation.

<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
<u>Mississippi River--Continued.</u>		
<u>Pine River basin</u>		
Pine River Reservoir at Cross Lake, Minn.	562	1941- †; (1886-1941†) <u>1</u> /
Pine River at Pine River Dam, at Cross Lake, Minn. (below Pine River Reservoir).	562	1895; 1916; 1929; 1941- ; (1886-1941) <u>1</u> /
<u>Pelican Brook:</u>		
Pelican Lake diversion near Pequot Lakes, Minn. . . .	-	1938- *
Pelican Brook (Long Lake) near Pequot Lakes, Minn. . .	-	1938-42*; 1942-47* ††.
<u>Lakes in Pine River basin:</u>		
Pine Mountain Lake near Backus, Minn.	-	1937-47*.
Bowen Lake near Backus, Minn.	-	1937-42*; 1942-47* ††.
Five Point Lake near Backus, Minn.	-	1937-39*; 1939-43* ††.
Portage Lake near Backus, Minn.	-	1937-39*; 1939-47* ††.
Hattie Lake near Pontoria, Minn.	-	1937-47*.
Hand Lake near Pontoria, Minn.	-	1937-39*; 1939-44* ††; 1947* ††.
Jule Lake near Pine River, Minn.	-	1937-39*; 1939-47* ††.
George Lake near Outing, Minn.	-	1937-39*; 1939-47* ††.
Washburn Lake near Outing, Minn.	-	1937-47*.
Roosevelt Lake near Outing, Minn.	-	1937-47*.
Eagle Lake near Emily, Minn.	-	1937-39*; 1939-47* ††.
Fox Lake near Swanburg, Minn.	-	1937-39*; 1939-47* ††.
O'Brien Lake near Emily, Minn.	-	1938-39*; 1940-47* ††.
Phelps Lake near Cross Lake, Minn.	-	1937-39*; 1939-47* ††.
Emily Lake near Emily, Minn.	-	1937-39*; 1939-47* ††.
Island Lake near Emily, Minn.	-	1937-39*; 1939-47* ††.
<u>Lakes between Pine River and Rabbit River:</u>		
Black Bear Lake near Trommald, Minn.	-	1937-44*; 1944-47* ††.
Mission Lake near Merrifield, Minn.	-	1938-47*.
<u>Rabbit River basin</u>		
Rabbit River near Crosby, Minn.	8.38	1945-
<u>Lakes in Rabbit River basin:</u>		
Clinker Lake near Cuyuna, Minn.	-	1937-39*; 1939-48* ††.
June Lake near Ironton, Minn.	-	1937-39*; 1939-47* ††.
Blackhoof Lake near Ironton (Riverton), Minn.	-	1937-47*.
<u>Crow Wing River basin</u>		
<u>Crow Wing River:</u>		
Little Sand Lake Outlet near Dorset, Minn.	-	1930-41.
Crow Wing River at Nimrod, Minn.	b/1,010	1910-14; 1930-
Crow Wing River at Motley, Minn.	b/2,140	1909; 1913-17; 1930-31.
Long Prairie River near Osakis, Minn.	-	1939-47*; 1949-54.
Long Prairie River near Motley, Minn.	-	1909-17; 1930-31.
Crow Wing River at Pillager, Minn.	b/3,230	1903; 1909-13.
<u>Gull River:</u>		
Gull Lake reservoir near Brainerd, Minn.	287	1941- †; (1911-41†) <u>1</u> /.
Gull River at Gull Lake Dam (Gull Lake reservoir), near Brainerd, Minn.	287	1929; 1941- ; (1911-41) <u>1</u> /.
<u>Lakes in Crow Wing River basin:</u>		
Crow Wing Lake No. 8 near Nevis, Minn.	-	1938-39*; 1939-47* ††.
Lake Belle Taine (Elbow Lake) near Nevis, Minn.	-	1935-38*; 1947-51* ††; 1953- * ††
Crow Wing Lake No. 5 near Nevis, Minn.	-	1938-47*.
Shell Lake near Ponsford, Minn.	-	1937-47*.
Stocking Lake near Menahaga, Minn.	-	1938-39*; 1939-47* ††.
Straight Lake at Osage, Minn.	-	1938-47*.
Two Inlets Lake near Park Rapids, Minn.	-	1938-39*; 1939-47* ††.
Potato Lake near Park Rapids, Minn.	-	1939-47*.
Portage Lake near Park Rapids, Minn.	-	1938-39*; 1940-47* ††.
Gourd Lake near Otter Tail, Minn.	-	1937-39*; 1940-47* ††.
West Leaf Lake near Otter Tail, Minn.	-	1937-47*.
Irene Lake near Miliona, Minn.	-	1937-39*; 1939-47* ††.
Miliona Lake near Miliona, Minn.	-	1937-47*.
Ida Lake near Alexandria, Minn.	-	1937-39*; 1941-47* ††.
Louise Lake near Alexandria, Minn.	-	1938-39*; 1941-47* ††.
Lobster Lake near Alexandria, Minn.	-	1938-39*; 1941-46* ††.
Brophy Lake near Alexandria, Minn.	-	1937-39*; 1940-47* ††.
Victoria Lake near Alexandria, Minn.	-	1937-39*; 1939-46* ††.
Geneva Lake near Alexandria, Minn.	-	1937-39*; 1940-46* ††.
Carlos Lake near Carlos, Minn.	-	1937-47*.
Smith Lake near Nelson, Minn.	-	1937-39*; 1940-46* ††.
Fishtrap Lake near Lincoln, Minn.	-	1938-39*; 1939-47* ††.

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† Monthly figures of discharge or contents only.

†† Unpublished.

b/ Approximately.

1/ In files of St. Paul office of Corps of Engineers.

UPPER MISSISSIPPI RIVER BASIN

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<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
Mississippi River--Continued.		
Crow Wing River basin--Continued.		
Lakes in Crow Wing River basin--Continued.		
Sibley Lake near Pequot Lakes (Pequot), Minn.	-	1937-39*; 1941-46* ††.
Mayo Lake near Pequot Lakes (Pequot), Minn.	-	1937-47*.
Clark Lake at Lake Hubert (Hubert), Minn.	-	1937-47*.
Clark Lake near Nisswa, Minn.	-	1937* ††; 1938*; 1939-42* ††; 1947* ††.
Hubert Lake at Lake Hubert, Minn.	-	1943-48*.
Mississippi River near Fort Ripley, Minn.	b/11,010	1909-10; 1929; (1906-*) <u>k</u> /.
Nokasippi River basin		
Nokasippi River near Fort Ripley, Minn.	210	1929.
Lakes in Nokasippi River basin:		
Clearwater Lake near Deerwood, Minn.	-	1937-39*; 1939-47* ††.
Eagle Lake near Deerwood, Minn.	-	1937-39*; 1939-46* ††.
Nokay Lake near Deerwood, Minn.	-	1937-39*; 1939-46* ††.
Heron Lake near Deerwood, Minn.	-	1937-39*; 1939-46* ††.
Upper Long Lake near Brainerd, Minn.	-	1937-39*; 1939-47* ††.
Lower Long Lake near Brainerd, Minn.	-	1937-47*.
Round Lake near St. Mathias, Minn.	-	1937-47*.
Grave Lake near Brainerd, Minn.	-	1937-39*; 1940-47* ††.
Lakes in Swan River basin		
Big Swan Lake near Burtrum, Minn.	-	1938-39*; 1939-47* ††.
Pillsbury (Little Swan) Lake near Swanville, Minn.	-	1937-39*; 1939-47* ††.
Mississippi River near Royalton, Minn.	b/11,600	1924-
Lake in Spunk Creek basin		
Big Spunk Lake near Avon, Minn.	-	1937-47*.
Platte River basin		
Platte (Platt) River at Royalton, Minn.	388	1929-36.
Lake in Platte River basin:		
Sullivan Lake near Harding, Minn.	-	1938-42*; 1942-47* ††.
Mississippi River near Sauk Rapids, Minn.	b/12,400	1903-6.
Lake in Watab River basin		
Watab Lake near Cold Spring, Minn.	-	1937-39*; 1939-47* ††.
Mississippi River at Sartell, Minn.	b/12,450	1929; 1943-47* ††.
Sauk River basin		
Sauk River near St. Cloud, Minn.	925	1909-13; 1929-
Lakes in Sauk River basin:		
Diversion from Long Prairie River near Osakis, Minn.	-	1939-42*; 1942-47* ††.
Osakis Lake near Osakis, Minn.	-	1938-44*; 1944-48* ††.
Big Birch Lake near Ward Springs, Minn.	-	1937-47*.
Eden Lake near Eden Valley, Minn.	-	1938-39*; 1939-47* ††.
Grand Lake near Rockville, Minn.	-	1937-42*; 1942-47* ††.
Clearwater River basin		
Clearwater River at Clearwater, Minn.	-	1937, 1940-42* ††.
Lake in Clearwater River basin:		
Clearwater Lake near Annandale, Minn.	-	1938-39*; 1940* ††.
Elk River basin		
Elk River above St. Francis River, near Big Lake, Minn.	-	1929.
Elk River near Big Lake, Minn.	615	1911-17; 1931-
Mississippi River at Elk River, Minn.	b/14,500	1915-
Crow River basin		
North Fork Crow River near Regal, Minn.	215	1943-54.
North Fork Crow River near Rockford, Minn.	-	1909-10*.
Middle Fork Crow River at New London, Minn.	-	1939-42*; 1942-47* ††.
Middle Fork Crow River (Calhoun Lake Diversion) near Spicer, Minn.	-	1939*; 1939-46* ††.
Middle Fork Crow River near Spicer, Minn.	179	1949-
South Fork Crow River at Cosmos, Minn.	221	1945-
South Fork Crow River near Mayer, Minn.	b/1,170	1934-
South Fork Crow River near Rockford, Minn.	-	1909-12.
Crow River at Rockford, Minn.	b/2,520	1909-17; 1929-
Crow River near Dayton, Minn.	-	1906.
Lakes in Crow River basin:		
Green Lake near Spicer, Minn.	-	1938-47*.
Calhoun Lake Outlet near Spicer, Minn.	-	1939*; 1939-47* ††.
Koronis Lake near Paynesville, Minn.	-	1942-47*.
Waverly (Little Waverly) Lake near Waverly, Minn.	-	1938-39*; 1939-47* ††.
Deer Lake near Buffalo, Minn.	-	1940-47*.
Mississippi River at Anoka, Minn.	-	1905-13; (1896-97) <u>l</u> /.

* Gage heights or gage heights and discharge measurements only.

†† Unpublished.

b/ Approximately.

i/ In files of St. Paul office of Corps of Engineers.

k/ In reports of U. S. Weather Bureau.

<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
Mississippi River--Continued.		
<u>Rum River basin</u>		
Mille Lacs Lake (head of Rum River) at Garrison (Wealthwood), Minn.	-	1931- *
Rum River at Onamia, Minn.	414	1909-12.
Rum River at Cambridge, Minn.	b/1,160	1909-14.
Rum River at St. Francis, Minn.	-	1903.
Rum River near St. Francis, Minn.	b/1,360	1929-
Rum River near Anoka, Minn.	b/1,430	1905-6; 1909.
Lakes in Rum River basin:		
Ogechie Lake near Onamia, Minn.	-	1938-39*; 1939-43* ††.
Francis Lake near Isanti, Minn.	-	1938-39*; 1939-47* ††.
<u>Lake in Elm Creek basin</u>		
Champlin Mill Pond at Champlin, Minn.	-	1938-39*; 1939-42* ††.
Mississippi River near Anoka, Minn.	b/19,100	1931-
<u>Minnehaha Creek basin</u>		
Minnetonka Lake (head of Minnehaha Creek) near Wayzata (at Excelsior), Minn.	-	1938- *; (1881-1938*) <u>k</u> /.
Minnehaha Creek at Minnetonka Mills, Minn.	-	1953-
<u>Minnesota River basin</u>		
Little Minnesota River (head of Minnesota River) near Peever. S. Dak.	447	1939-
Whetstone River near Corona, S. Dak.	-	1953-
Whetstone River near Big Stone City, S. Dak.	389	1910-12; 1931- ; (1899-1904) <u>f</u> /.
Big Stone Lake at Ortonville, Minn.	-	1937- *
Minnesota River at Ortonville, Minn.	b/1,160	1938-
Minnesota River near Odessa, Minn.	b/1,340	1909-12; 1944-
Yellow Bank River near Odessa, Minn.	398	1939-
Pomme de Terre River near Morris, Minn.	-	1937-39*; 1939-47* ††.
Pomme de Terre River at (near) Appleton, Minn.	b/905	1931-
Lakes in Pomme de Terre basin:		
Long Lake near Dalton, Minn.	-	1938-39*; 1939-47* ††.
Stalker Lake near Dalton, Minn.	-	1937-39*; 1940-47* ††.
Ten Mile Lake near Dalton, Minn.	-	1939*; 1940-47* ††.
Christina Lake near Ashby, Minn.	-	1937-43*; 1943-46* ††.
Pelican Lake near Ashby, Minn.	-	1937-39*; 1941-47* ††.
Melby Lake near Ashby, Minn.	-	1937-39*; 1939-47* ††.
Pomme de Terre (upper) Lake near Elbow Lake, Minn.	-	1937-39*; 1939-47* ††.
Perkins (Lower Pomme de Terre) Lake near Morris, Minn.	-	1938-47*.
Barrett Lake at Barrett, Minn.	-	1937-47*.
Drywood Lake near Alberta, Minn.	-	1937-39*; 1939-47* ††.
<u>Lac qui Parle River:</u>		
Canby Creek at Canby, Minn.	-	1938-39*; 1939-46* ††.
Lac qui Parle River near Lac qui Parle, Minn.	983	1910-14; 1931-
Tenmile Creek near Boyd, Minn.	82.8	1949-51.
Minnesota River near Lac qui Parle, Minn.	b/4,050	1942-
<u>Chippewa River:</u>		
Moses Lake diversion near Brandon, Minn.	-	1938-39*; 1939-41* ††.
Little Chippewa River near Lowry, Minn.	-	1941.
Little Chippewa River near Starbuck, Minn.	111	1938-39.
Chippewa River at diversion dam, near Hancock, Minn.	-	1938-39*; 1940-46* ††.
Chippewa River at Benson, Minn.	b/1,270	1949-51.
Shakopee Creek near Benson, Minn.	352	1949-54.
Chippewa River near Milan, Minn.	b/1,870	1937-
Chippewa River near Watson, Minn.	2,046	1910-17; 1931-36.
Lakes in Chippewa River basin:		
Moses Lake Inlet near Brandon, Minn.	-	1938-39*; 1939-41* ††.
Moses Lake near Brandon, Minn.	-	1937-39*; 1941-47* ††.
Upper Hunt Lake near Brandon, Minn.	-	1937-39*; 1939-47* ††.
Chippewa Lake near Brandon, Minn.	-	1937-39*; 1939-47* ††.
Little Chippewa Lake near Brandon, Minn.	-	1937-39*; 1941-46* ††.
Stowes Lake near Evansville, Minn.	-	1937-39*; 1939-47* ††.
Long Lake near Evansville, Minn.	-	1937-42*; 1942-47* ††.
Albert Lake near Erdahl, Minn.	-	1938-46*.
Minister Lake near Brandon, Minn.	-	1938-39*; 1939-42* ††.
Emily Lake near Hancock, Minn.	-	1937-47*.
Scandinavian Lake near Gilchrist, Minn.	-	1937-39*; 1939-46* ††.
Minnesota River at (near) Montevideo, Minn.	b/6,180	1909-
Yellow Medicine River near Cottonwood, Minn.	465	1945-46.
Spring Creek (Stoney Run) near Clarkfield, Minn.	89.0	1945-46.

* Gage heights or gage heights and discharge measurements only.

†† Unpublished.

b/ Approximately.

f/ In reports of Minnesota State Drainage Commission.

k/ In reports of U. S. Weather Bureau.

UPPER MISSISSIPPI RIVER BASIN

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<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
Mississippi River--Continued.		
<u>Minnesota River basin--Continued.</u>		
<u>Yellow Medicine River--Continued.</u>		
Spring Creek (Stoney Run) near Hazel Run, Minn.	101	1945-48.
Yellow Medicine River near Hanley Falls, Minn.	606	1945-47.
Yellow Medicine River near Granite Falls, Minn.	653	1931-
<u>Hawk Creek:</u>		
Chetomba Creek near Maynard, Minn.	b/200	1949-51.
Hawk Creek near Maynard, Minn.	474	1949-54.
Redwood River at Marshall, Minn.	307	1940-
Redwood River near Green Valley, Minn.	436	1945-47.
Redwood River near Seaforth, Minn.	573	1945-46.
Redwood River near Redwood Falls, Minn.	697	1909-14; 1930-
Cottonwood River near New Ulm, Minn.	b/1,280	1909-13; 1931-
Minnesota River at Judson, Minn.	b/11,200	1938-50.
<u>Blue Earth River:</u>		
East Fork Blue Earth River near Bricelyn, Minn.	132	1951-
Watonwan River at diversion dam, near Danfur, Minn.	-	1940-42, 1944, 1945* ++.
Watonwan River at diversion dam, near St. James, Minn.	-	1939*; 1939-46* ++.
Watonwan River near Garden City, Minn.	812	1940-45.
Blue Earth River near Rapidan (at Rapidan Mill), Minn.	b/2,430	1909-10; 1939-45; 1949-
LeSueur River near Rapidan, Minn.	b/1,100	1939-45; 1949-
Blue Earth River at Mankato, Minn.	b/3,550	1938-39*; 1939-42* ++.
<u>Lakes in Blue Earth River basin:</u>		
Fox Lake near Sherburne, Minn.	-	1939*; 1939-47* ++.
Mountain Lake at Mountain Lake, Minn.	-	1938-39*; 1939-46* ++.
Wood Lake near Darfur, Minn.	-	1937-39*; 1939-47* ++.
Francis Lake at Elysian, Minn.	-	1940-47*.
Madison Lake near Madison Lake, Minn.	-	1940- *
Cottonwood Lake near Mapleton, Minn.	-	1939*; 1939-47* ++.
Silver Lake near Waldorf, Minn.	-	1938-39*; 1941-47* ++.
Minnesota River at (near) Mankato, Minn.	b/14,900	1903-
<u>Lakes between Blue Earth River and Sand Creek:</u>		
Scotch Lake near Cleveland, Minn.	-	1938-39*; 1939-47* ++.
Greenleaf Lake near Montgomery, Minn.	-	1939*; 1940-47* ++.
High Island Lake near New Auburn, Minn.	-	1939*; 1940-47* ++.
Sand Creek at diversion dam, near Jordan, Minn.	-	1938-39*, 1940-46* ++.
<u>Lakes in Sand Creek basin:</u>		
Pheps Lake near Montgomery, Minn.	-	1937-39*; 1940-47* ++.
Mud Lake near Montgomery, Minn.	-	1939*; 1939-46* ++.
Pleasant Lake near Jordan, Minn.	-	1938-39*; 1940-47* ++.
Cedar Lake near St. Patrick, Minn.	-	1938-39*; 1942-47* ++.
Cynthia Lake near Prior Lake, Minn.	-	1937-47*.
Minnesota River near Carver, Minn.	b/16,200	1934-
<u>Lake below Sand Creek:</u>		
Prior Lake (Lower) at Prior Lake, Minn.	-	1939-51*.
Mississippi River at St. Paul, Minn.	b/36,800	1887-
<u>Phalen Creek basin</u>		
Keller Lake at St. Paul, Minn.	-	1938-39*; 1940* ++.
<u>St. Croix River basin</u>		
<u>St. Croix River:</u>		
Namekagon River at Trego, Wis.	b/460	1914-27.
Namekagon River near Trego, Wis.	b/503	1927-
<u>McKenzie Creek:</u>		
Big McKenzie Lake near Spooner, Wis.	b/25	1936-40*; 1941- ++
St. Croix River near Danbury (at Swiss), Wis.	b/1,588	1914-
<u>Yellow River:</u>		
<u>Sawyer Creek:</u>		
Shell Lake at Shell Lake, Wis. (no outlet).	b/14	1936- *
Yellow River at Webster, Wis.	b/228	1914*.
Yellow Lake near Webster, Wis.	b/258	1941- *
Clam River near Webster, Wis.	b/364	1940-42.
St. Croix River near Grantsburg, Wis.	b/2,820	1923-
Kettle River near Sandstone, Minn.	825	1908-17.
Grindstone River at Hinkley, Minn.	-	1940-47*.
Snake River at Mora, Minn.	422	1909-13.
Snake River at Sanatorium Bridge, near Pine City, Minn.	-	1937-38*.
Snake River near Pine City, Minn.	958	1913-17; 1951-
Wood River near Grantsburg, Wis.	b/190	1939.
St. Croix River near Rush City, Minn.	b/5,120	1923-
Sunrise River near Stacy, Minn.	94.7	1949-

* Gage heights or gage heights and discharge measurements only.

++ Unpublished.

b/ Approximately.

<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
Mississippi River--Continued.		
St. Croix River basin--Continued.		
St. Croix River at (near) St. Croix Falls, Wis.	b/5,930	1910- ; (1902-5; 1905-9†)f/.
Apple River:		
Fox Creek:		
Bone Lake near Luck, Wis.	b/15	1936-40*; 1941- ††
Apple River near Somerset, Wis.	b/555	1901-
Kinnikinnic River near River Falls, Wis.	b/170	1916-21.
Lakes in St. Croix River basin:		
Pine Lake near Finlayson, Minn.	-	1937-39*; 1939-47* ††.
Mud Lake near Quamba, Minn.	-	1937-39*; 1939-47* ††.
Rush Lake near Rush City, Minn.	-	1940-47*.
Martin Lake near Wyoming, Minn.	-	1939*; 1940-47* ††.
Mississippi River at Prescott, Wis.	b/44,800	1928-
Vermillion River basin		
Vermillion River near Empire City, Minn.	110	1942-45.
Vermillion River at Empire City, Minn.	124	1942-44.
Vermillion River at Hastings, Minn.	195	1942-47.
Cannon River basin		
Cannon River at Welch, Minn.	b/1,320	1909-14; 1930-
Lakes in Cannon River basin:		
Shields Lake near Shieldsville, Minn.	-	1937-39*; 1940-47* ††.
Rice Lake near Shieldsville, Minn.	-	1937-39*; 1939-47* ††.
Gorman Lake near Kilkenny, Minn.	-	1938-47*.
Sabre Lake near Kilkenny, Minn.	-	1937-39*; 1940-47* ††.
Jefferson Lake near Elysian, Minn.	-	1939*; 1941-47* ††.
Tetonka Lake at Waterville, Minn.	-	1937-47*.
Sakatah Lake near Waterville, Minn.	-	1937-47*.
Horseshoe Lake near Waterville, Minn.	-	1938-39*; 1940-46* ††.
Lower Sakatah Lake near Morristown, Minn.	-	1938-47*.
Morristown Mill Pond at Morristown, Minn.	-	1937-39*; 1939-46* ††.
Roberds Lake near Faribault, Minn.	-	1937-39*; 1940-47* ††.
Beaver Lake near Ellendale, Minn.	-	1940*; 1942-47* ††.
Goose Lake near Waseca, Minn.	-	1938-39*; 1940-47* ††.
Watkins Lake near Waseca, Minn.	-	1938-39*; 1939-47* ††.
Fox Lake near Dundas, Minn.	-	1937-39*; 1940-47* ††.
Circle Lake near Dundas, Minn.	-	1937-43*; 1943-47* ††.
Union Lake near Dundas, Minn.	-	1937-39*; 1940-47* ††.
Chippewa River basin		
Chippewa River:		
West Fork Chippewa River near Winter, Wis.	b/485	1911*; 1912-16.
Chippewa River at Bishops Bridge, near Winter, Wis.	b/787	1912-
Chippewa River near Bruce, Wis.	b/1,630	1913-
Pine Lake near Chetek, Wis. (no outlet)	b/3	1936-40*; 1941- * ††
Flambeau River:		
Flambeau River at Flambeau Reservoir, Wis.	b/666	1927-
Flambeau River near Butternut, Wis.	b/737	1914-38.
Flambeau River at Babb's Island, near Winter, Wis.	b/1,000	1929-
Connors Creek:		
Connors Lake near Phillips, Wis.	b/20	1936-40*; 1941- * ††
South Fork Flambeau River near Phillips, Wis.	b/615	1929-
Flambeau River near (at) Ladysmith, Wis.	b/1,823	1903-6; 1914-
Flambeau River near Bruce, Wis.	b/1,897	1951-
Chippewa River near Holcombe, Wis.	b/3,790	1944-49.
South Fork Jump River near Ogema, Wis.	b/328	1944-54.
Jump River at Sheldon, Wis.	b/574	1915-
Chippewa River at Holcombe, Wis.	b/4,700	1942-49.
Fisher River at Holcombe, Wis.	b/76	1944-45.
O'Neil Creek near Chippewa Falls, Wis.	67.1	1944-45.
Yellow River at Cadott, Wis.	b/351	1942-
Duncan Creek at Bloomer, Wis.	49.2	1944-51.
Duncan Creek at Chippewa Falls, Wis.	114	1942-55.
Chippewa River at Chippewa Falls, Wis.	b/5,600	1888-
Eau Claire River near Augusta, Wis.	b/500	1914-26.
Eau Claire River near Fall Creek, Wis.	b/747	1942-55.
Chippewa River at (near) Eau Claire, Wis.	b/6,630	1902-9; 1944-54.

* Gage heights or gage heights and discharge measurements only.

† Monthly figures of discharge or contents only.

†† Unpublished.

b/ Approximately.

f/ In reports of Minnesota State Drainage Commission.

<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
Mississippi River--Continued.		
<u>Chippewa River basin--Continued.</u>		
Red Cedar River near Colfax, Wis.	1,100	1914-
Hay River at Wheeler, Wis.	b/430	1950-
Red Cedar River at Cedar Falls, Wis.	-	1909-23*.
Red Cedar River at Menomonie, Wis.	b/1,760	1907-8; 1913-23; 1925-
Chippewa River at Durand, Wis.	b/9,010	1928-
Eau Galle River at Spring Valley, Wis.	64.8	1944-
Eau Galle River at Elmwood, Wis.	91.9	1942-53.
Reservoirs (9) in Chippewa River basin	-	1939- †
Mississippi River at Wabasha, Minn.	b/56,600	1934.
<u>Buffalo River basin</u>		
Buffalo River near Tell, Wis.	406	1932-51.
Mississippi River at Alma, Wis.	b/57,100	1930-31.
<u>Zumbro River basin</u>		
South Fork Zumbro River near Rochester, Minn.	-	1952-
South Fork (Branch) Zumbro River near Zumbro Falls, Minn.	821	1911-17.
Zumbro River at Zumbro Falls, Minn.	b/1,130	1909-17; 1929-
Zumbro River at Theilman, Minn.	b/1,320	1938-
<u>Lakes in Zumbro River basin:</u>		
Shady Lake (Middle Branch Zumbro River) at Oronoco, Minn.	-	1939-47*.
Silver Lake at Rochester, Minn.	-	1938-39*; 1941-47* ††.
<u>Whitewater River basin</u>		
North Fork Whitewater River near Elba, Minn.	101	1939-41.
South Fork Whitewater River near Altura, Minn.	76.8	1939-
Beaver Creek at Beaver, Minn.	15.4	1939-40.
Whitewater River at Beaver, Minn.	288	1939- ; (1936-39*) <u>1/</u> .
Mississippi River near Fountain City, Wis.	b/59,100	1930-31.
Mississippi River at Winona, Minn.	b/59,200	1928-
<u>Gilmore Creek basin</u>		
Gilmore Creek at Winona, Minn.	8.95	1939-
<u>Trempealeau River basin</u>		
Trempealeau River at Dodge, Wis.	643	1913*; 1913-19; 1934-
Trempealeau River near Trempealeau, Wis.	722	1931-34.
Mississippi River at Lamoille, Minn.	b/60,000	1930-31.
<u>Black River basin</u>		
Black River at Neillsville, Wis.	b/756	1905-9; 1913-
Black River at Melrose, Wis.	-	1902-3*.
Black River near Galesville, Wis.	b/2,120	1931-
<u>La Crosse River basin</u>		
<u>La Crosse River:</u>		
Little La Crosse River near Leon, Wis.	77.1	1934-
La Crosse River near West Salem, Wis.	398	1913*; 1914-
Mississippi River at La Crosse, Wis.	b/62,800	1929-55.
<u>Root River basin</u>		
Root River (North Branch) near Lanesboro, Minn.	615	1910-17; 1940-
Rush Creek near Rushford, Minn.	129	1942-
Root River near Houston, Minn.	b/1,270	1909-17; 1929-
South Fork Root River near Houston, Minn.	b/275	1953-
Root River below South Fork, near Houston, Minn.	b/1,560	1938-
<u>Coon Creek basin</u>		
Coon Creek at Coon Valley, Wis.	77.2	1934-40.
Coon Creek near Stoddard, Wis.	119	1934-40.
<u>Upper Iowa River basin</u>		
Upper Iowa River at Decorah, Iowa.	b/500	1951-
Upper Iowa River near Decorah, Iowa.	b/560	1913-14; 1919-27; 1933-51.
<u>Paint Creek basin</u>		
Paint Creek at Waterville, Iowa.	42.7	1952-
<u>Yellow River basin</u>		
Yellow River at Ion, Iowa.	224	1934-51.
Mississippi River at McGregor, Iowa.	b/67,500	1936-
Mississippi River at Genoa, Wis.	b/64,700	1930-31.
<u>Wisconsin River basin</u>		
<u>Wisconsin River:</u>		
<u>Eagle River:</u>		
Anvil Lake near Eagle River, Wis. (no outlet).	b/3	1936- *

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† Monthly figures of discharge or contents only.

†† Unpublished.

b/ Approximately.

1/ In files of St. Paul office of Corps of Engineers.

<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
<u>Mississippi River--Continued.</u>		
<u>Wisconsin River basin--Continued.</u>		
Wisconsin River at Rainbow Reservoir, near Lake Tomahawk, Wis.	b/750	1936-
Wisconsin River near Rineland, Wis.	b/1,110	1905-15.
Wisconsin River at Whirlpool Rapids, near Rhineland, Wis.	b/1,200	1915-
<u>Tomahawk River:</u>		
Tomahawk River near Bradley, Wis.	b/422	1914-27; 1928-29.
Tomahawk River at Bradley (Tomahawk), Wis.	b/554	1930-
Spirit River at Spirit Falls, Wis.	b/82	1942-
New Wood River near Merrill, Wis.	b/83	1952-
Prairie River near Merrill, Wis.	b/164	1914-31; 1939-
Wisconsin River at Merrill, Wis.	b/2,780	1902-3*; 1904-8†; 1909-
Rib Lake (head of Rib River) at Rib Lake, Wis.	b/33	1936-40*; 1941- * ††
Rib River at Rib Falls, Wis.	b/309	1925-
Little Rib River near Wausau, Wis.	b/76	1914-16.
Eau Claire River near Antigo, Wis.	b/86	1949-55.
Eau Claire River at Kelly, Wis.	b/326	1914-26; 1939-
Wisconsin River at Rothschild, Wis.	b/4,000	1944-
Bull Creek Jr., near Rothschild, Wis.	b/26.4	1944-52.
Big Eau Pleine River near Colby, Wis.	b/79	1941-54.
Big Eau Pleine River near Stratford, Wis.	b/224	1914-25; 1937-
Wisconsin River at Knowlton, Wis.	b/4,520	1921-42.
Plover River near Stevens Pont, Wis.	b/136	1914-19; 1944-51.
Wisconsin River near Nekoosa, Wis.	b/5,500	1914-50.
Wisconsin River near Necedah, Wis.	b/5,860	1902*; 1902-14; 1944-50.
Yellow River at Babcock, Wis.	b/223	1944-
Yellow River at Sprague, Wis.	b/420	1926-40.
Yellow River at Necedah, Wis.	b/526	1940-
Lemonweir River at New Lisbon, Wis.	b/486	1944-
Wisconsin River near Wisconsin Dells, Wis.	b/7,830	1934-
<u>Baraboo River:</u>		
Devils Lake near Baraboo, Wis. (no outlet).	5.64	1922-30*; 1932*; 1934- *
Baraboo River near Baraboo, Wis.	b/650	1913*; 1913-22; 1942-
Mud Lake (head of Rock Run) near Poynette, Wis.	10.0	1940*; 1941- * ††
Wisconsin River at Prairie du Sac, Wis.	b/8,950	1946-53.
Black Earth Creek at Black Earth, Wis.	45.9	1954-
Wisconsin River at Muscoda, Wis.	b/10,300	1902-3*; 1913*; 1913-
Kickapoo River at Ontario, Wis.	151	1938-39.
Kickapoo River at La Farge, Wis.	266	1938-
<u>West Fork Kickapoo River:</u>		
Knapp Creek near Bloomingdale, Wis.	-	1955-
West Fork Kickapoo River near Readstown, Wis.	106	1938-39.
Kickapoo River at Soldiers Grove, Wis.	530	1938-39.
Kickapoo River at Gays Mills, Wis.	616	1913-34.
Kickapoo River at Steuben, Wis.	690	1933-
Reservoirs (21) in Wisconsin River basin	-	1940- †
Mississippi River at Clayton, Iowa.	b/69,200	1930-36.
<u>Turkey River basin</u>		
Turkey River at Elkader, Iowa.	892	1933-42.
Turkey River at Garber, Iowa.	b/1,530	1913-16; 1919-27; 1932- ; (1929-30)m/.
<u>Grant River basin</u>		
Grant River near Burton, Wis.	257	1934-47.
Grant River at Burton, Wis.	267	1947-
<u>Platte River basin</u>		
Platte River near Rockville, Wis.	139	1934-
<u>Little Maquoketa River basin</u>		
Little Maquoketa River near Durango, Iowa.	b/130	1934-
<u>Galena River basin</u>		
Galena River at Buncombe, Wis.	128	1939-
East Fork Galena River at Council Hill, Ill.	20.1	1939-
Galena River at Galena, Ill.	200	1934-38; 1938-39*.

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† Monthly figures of discharge or contents only.

†† Unpublished.

b/ Approximately.

m/ In reports of Iowa State Planning Board.

<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
Mississippi River--Continued.		
Maquoketa River basin		
Maquoketa River at Manchester, Iowa.	269	1903.
Maquoketa River near Manchester, Iowa.	306	1933-
Maquoketa River near Delhi, Iowa.	348	1933-40.
Maquoketa River above North Fork Maquoketa River near Maquoketa, Iowa.	957	1913-14.
Maquoketa River near Maquoketa, Iowa.	b/1,550	1913-
Apple River basin		
Apple River near Hanover, Ill.	244	1934-
Plum River basin		
Plum River near Savanna, Ill.	164	1934-41.
Plum River below Carroll Creek, near Savanna, Ill.	231	1941-
Mississippi River at Clinton, Iowa.	b/85,600	1939-
Wapsipinicon River basin		
Wapsipinicon River at Independence, Iowa.	b/1,060	1933-
Wapsipinicon River at Stone City, Iowa.	b/1,310	1903-14.
Wapsipinicon River near Dewitt, Iowa.	b/2,300	1934-
Mississippi River at Le Claire, Iowa.	b/88,600	1932-39; (1873-1932)m/.
Rock River basin		
West Branch Rock River near Waupun, Wis.	b/42	1949-
South Branch Rock River at Waupun, Wis.	b/56	1949-
East Branch Rock River near Mayville, Wis.	b/177	1949-
Oconomowoc River:		
Beaver Lake near Hartland, Wis.	b/3	1933-40*; 1941- * ††
Pine Lake near Hartland, Wis.	b/6	1931-40*; 1941- * ††
Rock River at Watertown, Wis.	b/971	1914*; 1931-
Crawfish River at Milford, Wis.	b/732	1931-
Bark River:		
Whitewater Creek near Whitewater, Wis.	-	1926-28; 1946-54.
Whitewater Creek at Whitewater, Wis.	-	1926-28; 1946-54.
Koshkonong Creek:		
Lake Ripley near Cambridge, Wis.	b/1.5	1936-40*; 1941- * ††
Yahara River:		
Lake Mendota at Madison, Wis.	b/254	1902-3*; 1916- *
Yahara (Catfish) River at Madison, Wis.	b/254	1902-3*.
Lake Monona at Madison, Wis.	b/273	1915- *; (1856-1917*)n/.
Yahara River near McFarland, Wis.	b/351	1930-
Yahara River near Edgerton, Wis.	b/460	1916-17.
Rock River at Afton, Wis.	b/3,300	1914-
Turtle Lake (head of Turtle Creek) near Delavan, Wis.	b/1.3	1936*; 1938-40*; 1941- * ††
Turtle Creek near Clinton, Wis.	186	1939-
Rock River above Pecatonica River, at Rockton, Ill.	-	1903.
Pecatonica River at Darlington, Wis.	274	1939-
East Branch Pecatonica River near Blanchardville, Wis.		
Yellowstone River near Blanchardville, Wis.	221	1939-
Pecatonica River at Dill, Wis.	29.1	1954-
Pecatonica River at Martintown, Wis.	959	1914-19.
Pecatonica River at Winslow, Ill.	b/1,040	1939-
Cedar Creek near Winslow, Ill.	1.29	1951- ††
Pecatonica River at Freeport, Ill.	b/1,330	1914-
Sugar River:		
Mt. Vernon Creek near Mt. Vernon, Wis.	16.1	1954-
Sugar River near Brodhead, Wis.	536	1914-
Pecatonica River at Shirland, Ill.	b/2,540	1939-
Rock River at Rockton, Ill.	b/6,290	1903-9; 1940-
Rock River at Rockford, Ill.	b/6,520	1914-19.
Kishwaukee River at Belvidere, Ill.	525	1939-
South Branch Kishwaukee River at DeKalb, Ill.	b/70	1925-33.
South Branch Kishwaukee River near Fairdale, Ill.	386	1939-
Kishwaukee River near Perryville, Ill.	b/1,090	1939-
Killbuck Creek near Monroe Center, Ill.	114	1939-
Leaf River at Leaf River, Ill.	102	1939-
Rock River at Oregon, Ill.	b/8,120	1939-49.
Kyte River near Flagg Center, Ill.	125	1939-51.
Rock River near Nelson, Ill.	-	1906.
Rock River at Sterling, Ill.	-	1905-6.
Rock River at Como, Ill.	b/8,700	1933-
Elkhorn Creek near Penrose, Ill.	153	1939-
Rock River at Lyndon, Ill.	b/9,010	1914-34.
Rock Creek near Coleta, Ill.	81.6	1939-42.

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†† Unpublished.

b/ Approximately.

m/ In reports of Iowa State Planning Board.

n/ In reports of Wisconsin Railroad Commission.

<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
Mississippi River--Continued.		
Rock River basin--Continued.		
Rock Creek--Continued.		
Rock Creek near Morrison, Ill.	143	1942-
Rock Creek at Morrison, Ill.	169	1940-42.
Rock River near Joslin, Ill.	b/9,520	1939-
Green River at Amboy, Ill.	199	1939-
Green River near Geneseo, Ill.	958	1936-
Mill Creek at Milan, Ill.	62.5	1939-
Iowa River basin		
West Fork Iowa River near Klemme, Iowa	b/110	1948-
East Fork Iowa River near Klemme, Iowa	b/120	1948-
Iowa River near Rowan, Iowa.	396	1940-
Iowa River near Iowa Falls, Iowa	641	1911-14.
Pine Creek:		
Upper Pine Lake at Eldora, Iowa.	-	1936- *
Lower Pine Lake at Eldora, Iowa.	-	1936- *
Iowa River at Marshalltown, Iowa	b/1,530	1903; 1915-27; 1933-
Salt Creek near Elberon, Iowa.	b/200	1945-
Iowa River near Belle Plaine, Iowa	b/2,420	1939-
Bear Creek at Ladora, Iowa	185	1945-
Mill Creek:		
Lake Macbride near Solon, Iowa	-	1936- *
Rapid Creek near Iowa City, Iowa	24.5	1938-
Iowa River at Iowa City, Iowa.	b/3,230	1903-6; 1913- ; (1906-13)m/.
Ralston Creek at Iowa City, Iowa	3.01	1932- ; (1924-32)o/.
English River at Kalona, Iowa.	b/580	1939-
Cedar River:		
Turtle Creek:		
Geneva Lake near Clarks Grove, Minn.	-	1939*; 1940-47* ++.
Turtle Creek near Austin, Minn.	-	1948-51.
Cedar River near Austin, Minn.	425	1909-14; 1944-
Cedar River at Mitchell, Iowa.	845	1933-42.
Little Cedar River near Ionia, Iowa.	328	1954-
Cedar River at Janesville, Iowa.	b/1,660	1905-6; 1915-27; 1932-42; 1946-
Shell Rock River near Northwood, Iowa.	b/380	1948-
Lime Creek at Mason City, Iowa	535	1932-
Willow Creek:		
Clear Creek:		
Clear Lake at Clear Lake, Iowa	-	1933- *
Shell Rock River at Marble Rock, Iowa.	b/1,330	1942-53.
Shell Rock River at Greene, Iowa	b/1,375	1933-42.
Shell Rock River near Clarksville, Iowa.	b/1,660	1915-27; 1932-34.
Shell Rock River at Shell Rock, Iowa	b/1,770	1953-
West Fork Shell Rock River at Finchford, Iowa.	b/860	1945-
Beaver Creek at New Hartford, Iowa	b/350	1948-
Blackhawk Creek at Hudson, Iowa.	295	1952-
Cedar River at Waterloo, Iowa.	b/5,190	1941-
Cedar River at Cedar Rapids, Iowa.	b/6,640	1903-
Cedar River near Conesville, Iowa.	b/7,840	1939-
Iowa River at Wapello, Iowa.	b/12,480	1915-
Edwards River basin		
Edwards River near Orion, Ill.	163	1941-
Edwards River near New Boston, Ill.	434	1934-
Pope Creek basin		
Pope Creek near Keithsburg, Ill.	171	1934-
Henderson Creek basin		
Henderson Creek near Little York, Ill.	151	1940-
North Henderson Creek near Seaton, Ill.	66.4	1940-51.
Cedar Creek at Little York, Ill.	128	1940-
Henderson Creek near Oquawka, Ill.	428	1934-
South Henderson Creek at Biggsville, Ill.	81.4	1939-
Skunk River basin		
Skunk River near Ames, Iowa.	322	1920-27; 1933-
Squaw Creek at Ames, Iowa.	b/210	1919-27.
Skunk River below Squaw Creek, near Ames, Iowa	565	1952-
Skunk River near Oskaloosa, Iowa	b/1,640	1948-
Unnamed stream:		
Lake Keomah near Oskaloosa, Iowa	-	1936- *

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++ Unpublished.

b/ Approximately.

m/ In reports of Iowa State Planning Board.

o/ In University of Iowa Engineering Bulletin No. 9.

<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
Mississippi River--Continued.		
Skunk River basin--Continued.		
North Skunk River near Sigourney, Iowa.	b/750	1945-
Skunk River at Coppock, Iowa.	b/2,890	1913-44.
Big Creek near Mt. Pleasant, Iowa.	106	1955-
Skunk River at Augusta, Iowa.	b/4,290	1913; 1915-
Mississippi River at Keokuk, Iowa.	b/119,000	1932- ; (1878-1932)m/.
Des Moines River basin		
West Fork Des Moines River:		
Heron Lake Outlet near Heron Lake, Minn.	457	1930-33; 1934-43.
West Fork Des Moines River (Des Moines River) near Jackson, Minn.	b/1,190	1930-44.
West Fork Des Moines River (Des Moines River) at Jackson, Minn.	b/1,220	1909-13; 1944-
West Fork Des Moines River at Estherville, Iowa.	1,408	1951-
East Fork Des Moines River:		
Tuttle Lake near Ceylon, Minn.	-	1930- *
Tuttle Lake near Dolliver, Iowa.	-	1933-34*.
East Fork Des Moines River near Burt, Iowa.	466	1951-
East Fork Des Moines River near Hardy, Iowa.	b/1,230	1940-54.
East Fork Des Moines River at Dakota City, Iowa.	1,262	1954-
Des Moines River near Fort Dodge, Iowa.	b/3,770	1911-13.
(North) Lizard Creek near Clare, Iowa.	257	1940-
Des Moines River at Fort Dodge (Kalo), Iowa.	4,207	1905-6; 1913-27; 1949-
Boone River near Webster City, Iowa.	842	1940-
Des Moines River near Boone, Iowa.	b/5,490	1920-27; 1933-
Des Moines River at Des Moines, Iowa.	b/6,180	1902-3; 1905-6; 1914- 27; 1932- ; (1893- 94; 1897-1914)m/.
Raccoon River near Jefferson, Iowa.	b/1,630	1940-
East Fork Hardin Creek near Churdan, Iowa.	22.7	1952-
South Raccoon River:		
Middle Raccoon River:		
Unnamed stream:		
Springbrook Lake near Guthrie Center, Iowa.	-	1936- *
South Raccoon River at Redfield, Iowa.	995	1940-
Raccoon River at Van Meter, Iowa.	b/3,410	1915-27; 1932- ; (1927-32)m/.
Raccoon River at Des Moines, Iowa.	b/3,590	1902-3.
Des Moines River below Raccoon River, at Des Moines, Iowa.	b/9,770	1940-
North River near Norwalk, Iowa.	348	1940-
Middle River near Indianola, Iowa.	502	1940-
South River:		
Squaw Creek:		
Unnamed stream:		
Lake Ahquabi near Indianola, Iowa.	-	1936- *
South River near Ackworth, Iowa.	475	1940-
Whitebreast Creek near Knoxville, Iowa.	b/380	1945-
Des Moines River near Tracy, Iowa.	b/12,400	1920-27; 1933-35; 1940-
Cedar Creek near Bussey, Iowa.	384	1947-
Des Moines River at Ottumwa (Eldon), Iowa.	b/13,200	1917-27; 1929- ; (1927-29)m/.
Soap Creek:		
Unnamed stream:		
Lake Wapello near Drakesville, Iowa.	-	1936- *
Des Moines River at Keosauqua, Iowa.	b/13,900	1903-6; 1910-
Sugar Creek near Keokuk, Iowa.	113	1922-26.
Lakes in Des Moines River basin:		
Yankton Lake near Balaton, Minn.	-	1940-47*.
Long Lake near Garvin, Minn.	-	1938-47*.
Lake Shetek at Currie, Minn.	-	1939-47*.
Talcot Lake near Dundee, Minn.	-	1940-46*.
Heron Lake near Heron Lake, Minn.	-	1938-48*.
Warren Lake at Windom, Minn.	-	1939*; 1939-46* ++.
Fox River basin		
Fox River at Cantril, Iowa.	161	1940-51.
Fox River at (near) Wayland, Mo.	b/400	1922-
Bear Creek basin		
Bear Creek near Marcelline, Ill.	348	1944-
Wyaconda River basin		
Wyaconda River above Canton, Mo.	393	1932-

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++ Unpublished.

b/ Approximately.

m/ In reports of Iowa State Planning Board.

<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
<u>Mississippi River--Continued.</u>		
<u>Wyaconda River basin--Continued.</u>		
Wyaconda River near Canton, Mo.	447	1922-32.
<u>Fabius River basin</u>		
North Fabius River at Monticello, Mo.	452	1922-
Middle Fabius River near Baring, Mo.	185	1930-34†; 1934-
Middle Fabius River near Monticello, Mo.	393	1945-
North Fabius River at Taylor, Mo.	930	1930-42.
<u>South Fork South Fabius River:</u>		
North Fork South Fabius River at Edina, Mo.	b/72	1930-38‡.
Little Fabius River near Edina, Mo.	25.2	1930-38‡.
South Fabius River near Taylor, Mo.	620	1934-
<u>North River basin</u>		
North River at Bethel, Mo.	b/58	1930-36‡; 1936-
North River at Palmyra, Mo.	373	1934-
<u>Bear Creek basin</u>		
Bear Creek near Hannibal, Mo.	b/14	1930-36‡.
Bear Creek at Hannibal, Mo.	31.0	1938-42; 1947-
<u>Salt River basin</u>		
Salt River near Shelby, Mo.	481	1930-34‡; 1934-
<u>Black Creek:</u>		
Douglas Creek near Emden, Mo.	2.69	1955-
Salt River near Hunnewell, Mo.	626	1930-31‡; 1931-40.
Crooked Creek near Shelby, Mo.	b/70	1930-36‡.
<u>South Fork Salt River:</u>		
Davis Creek near Mexico, Mo.	b/59	1930-37‡; 1937-41.
South Fork Salt River at Santa Fe, Mo.	298	1939-
Long Branch near Paris, Mo.	70.3	1930-35‡.
Youngs Creek near Mexico, Mo.	67.4	1930-36‡; 1936-
Middle Fork Salt River at Paris, Mo.	356	1939-
Elk Fork Salt River near Paris, Mo.	262	1930-35‡; 1935-54.
Salt River near Monroe City, Mo.	b/2,230	1939-
Salt River near New London, Mo.	b/2,480	1922-
Spencer Creek near Frankford, Mo.	b/200	1930-36‡.
Peno Creek at Frankford, Mo.	54.2	1930-36‡; 1936-38.
Mississippi River at Louisiana, Mo.	b/140,700	1934-35; (1890-95*; 1915-33*)k/.
<u>The Sny basin</u>		
Hadley Creek near Barry, Ill.	-	1955-
Hadley Creek at Kinderhook, Ill.	72.7	1939-
Hadley Creek near Shinn, Ill.	73.6	1941-46.
Hadley Creek near Hew Canton, Ill.	74.0	1941-42.
The Sny at Atlas, Ill.	451	1939-42.
Bay Creek at Pittsfield, Ill.	39.6	1939-
Bay Creek at Nebo, Ill.	162	1939-
<u>Kings Lake basin</u>		
Lost Creek at Elsberry, Mo.	12.2	1954-
<u>Cuivre River basin</u>		
West Fork Cuivre River near Laddonia, Mo.	b/32	1930-36‡; 1936-39.
Cuivre River near Troy, Mo.	903	1922-
<u>Illinois River basin</u>		
<u>Kankakee River (head of Illinois River) near</u>		
North Liberty, Ind.	152	1951-
Kankakee River at Davis, Ind.	508	1905-6; 1931- ; (1925-29)p/.
Yellow River near Bremen, Ind.	132	1955-
Yellow River at Plymouth, Ind.	284	1948-
Yellow River at Knox, Ind.	425	1905-6*; 1943-
Kankakee River at Dunns Bridge, Ind.	1,308	1948-
Kankakee River at Shelby, Ind.	1,753	1930- ; (1922-30)p/.
Singleton ditch near Hebron, Ind.	34.0	1948-51.
Singleton ditch at Schneider, Ind.	122	1948-
West Creek near Schneider, Ind.	54.5	1948-51; 1954-
Singleton ditch at Illinois, Ill.	219	1944-
Kankakee River at Momence, Ill.	b/2,340	1905-6; 1914-
Iroquois River at Rosebud, Ind.	30.3	1948-
Oliver ditch near Aix, Ind.	66.3	1948-51.
Iroquois River near North Marion, Ind.	134	1948-
Iroquois River at Rensselaer, Ind.	194	1948-
<u>Big Slough:</u>		
Bice ditch near South Marion, Ind.	22.6	1948-
Big Slough Creek near Collegeville, Ind.	84.1	1948-

* Gage heights or gage heights and discharge measurements only.

† Fragmentary record.

b/ Approximately.

k/ In reports of U. S. Weather Bureau.

p/ In reports of Indiana Department of Conservation.

<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
Mississippi River--Continued.		
Illinois River basin--Continued.		
Iroquois River--Continued.		
Big Slough--Continued.		
Carpenter Creek at Egypt, Ind.	48.1	1948-
Iroquois River near Foresman, Ind.	410	1948-
Iroquois River at Iroquois, Ill.	682	1944-
Sugar Creek at Milford, Ill.	430	1948-
Iroquois River near Chebanse, Ill.	b/2,120	1923-
Terry Creek near Custer Park, Ill.	12.0	1949-
Kankakee River at Custer Park, Ill.	b/4,870	1914-33.
Kankakee River near Wilmington, Ill.	b/5,250	1935-
Des Plaines River near Gurnee, Ill.	215	1945-
Buffalo Creek near Wheeling, Ill.	19.4	1952-
Des Plaines River near Des Plaines, Ill.	374	1940-
McDonald Creek near Mount Prospect, Ill.	7.52	1952-
Weller Creek at Des Plaines, Ill.	13.1	1950-
Willow Creek near Park Ridge, Ill.	19.6	1950-
Salt Creek near Arlington Heights, Ill.	33.7	1950-
Salt Creek at Western Springs, Ill.	122	1945-
Addison Creek at Bellwood, Ill.	18.2	1950-
Des Plaines River at Riverside, Ill.	635	1896-98; 1943- ; (1886-90; 1892-1936)g/.
Flag Creek near Willow Springs, Ill.	16.2	1951-
Des Plaines River at Lemont, Ill.	687	1914-44.
Des Plaines River at Romeo, Ill.	-	1914.
Chicago Sanitary and Ship Canal:		
North Branch Chicago River at Deerfield, Ill.	20.7	1952-
Skokie River at Lake Forest, Ill.	12.8	1951- r/
West Fork of North Branch Chicago River at Northbrook, Ill.	11.5	1952-
North Branch Chicago River at Niles, Ill.	102	1950- s/
Calumet Sag Channel:		
Tinley Creek near Palos Park, Ill.	11.3	1951- r/
Chicago Sanitary and Ship Canal at Lockport, Ill.	-	1936- ; (1900-1936)g/.
Illinois and Michigan Canal:		
Long Run near Lemont, Ill.	20.8	1951-
Des Plaines River at Joliet, Ill.	-	1914-32.
Hickory Creek:		
Spring Creek at Joliet, Ill.	19.7	1925-33.
Hickory Creek at Joliet, Ill.	107	1944-
Des Plaines River above Jackson Creek, near Channahon, Ill.	1,168	1903-6.
West Branch Du Page River at Winfield, Ill.	-	1925-26.
Du Page River at Troy, Ill.	325	1940-
Des Plaines River above Kankakee River, near Channahon, Ill.	-	1902-3.
Illinois River near Minooka, Ill.	-	1903-4.
Mazon River near Coal City, Ill.	470	1939-
Illinois River at Morris, Ill.	-	1919-39.
Illinois River near Seneca, Ill.	-	1902-3.
Illinois River at Marseilles, Ill.	b/7,640	1939-
Fox River near Mukwonago, Wis.	-	1927-30.
Eagle Creek:		
Eagle Lake near Kansasville, Wis.	b/6.1	1936-40*; 1941- * ++
White River:		
Honey Creek:		
Holden Lake near Elkhorn, Wis. (no outlet)	b/1	1937- *
Browns Lake Outlet:		
Browns Lake near Burlington, Wis.	b/2.5	1936-40*; 1941- * ++
Silver Lake Outlet:		
Silver Lake at Silver Lake, Wis.	b/5.0	1936-40*; 1941- * ++
Fox River at Wilmet, Wis.	b/880	1939-
Channel Lake near Antioch, Ill.	-	1939- *
Fox Lake near Lake Villa, Ill.	-	1939- *
Nippersink Lake at Fox Lake, Ill.	-	1939- *
Fox River at Johnsbury, Ill.	-	1939- *
Boone Creek near McHenry, Ill.	15.3	1948-
Fox River near McHenry, Ill.	-	1941- *
Fox River at Algonquin, Ill.	1,364	1915-
Poplar Creek at Elgin, Ill.	35.8	1951-

* Gage heights or gage heights and discharge measurements only.

++ Unpublished.

b/ Approximately.

g/ In reports of Illinois Division of Waterways.

r/ Records are published in Part 4 for the period 1951-52.

s/ Records are published in Part 4 for the period 1950-52.

<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
Mississippi River--Continued.		
Illinois River basin--Continued.		
Fox River at South Elgin, Ill.	-	1914-15*.
Fox River at Aurora, Ill.	-	1914*.
Fox River at Sheridan, Ill.	-	1905-6.
Fox River at Dayton (Wedron), Ill.	2,570	1914-
Fox River at Ottawa, Ill.	-	1903*.
Illinois River at Ottawa, Ill.	-	1903-4.
North Fork Vermilion River near Charlotte, Ill.	184	1942-
Vermilion River at Pontiac, Ill.	568	1942-
Vermilion River at Streator, Ill.	b/1,080	1914-30.
Vermilion River at Lowell, Ill.	b/1,230	1931-
Illinois River near La Salle, Ill.	-	1903.
Bureau Creek at Princeton, Ill.	186	1936-
West Bureau Creek at Wyandot, Ill.	83.3	1936-
East Bureau Creek near Bureau, Ill.	101	1936-
Bureau Creek at Bureau, Ill.	481	1940-51.
Crow Creek (West) near Henry, Ill.	55.3	1949-
Gimlet Creek at Sparland, Ill.	5.42	1945-47; 1949-
Crow Creek near Washburn, Ill.	123	1944-
Illinois River at Peoria, Ill.	-	1910-38.
Farm Creek at Farmdale, Ill.	27.6	1948-
Ackerman Creek at Farmdale, Ill.	11.8	1953-
Fondulac Creek near East Peoria, Ill.	5.47	1948-
Farm Creek at East Peoria, Ill.	60.9	1943-
Illinois River near Peoria, Ill.	-	1903-6.
Kickapoo Creek near Kickapoo, Ill.	120	1944-
Kickapoo Creek at Peoria, Ill.	296	1942-
Illinois River at Pekin, Ill.	-	1938-39.
Mackinaw River:		
Money Creek above Lake Bloomington, Ill.	51.9	1933-
Hickory Creek above Lake Bloomington, Ill.	10.1	1938-
Money Creek at Lake Bloomington, Ill.	68.6	1930-
Panther Creek:		
East Branch Panther Creek near Gridley, Ill.	b/6.3	1949-
East Branch Panther Creek at El Paso, Ill.	28.8	1949-
Panther Creek near El Paso, Ill.	95.0	1949-
Mackinaw River near Congerville, Ill.	764	1944-
Mackinaw River near Green Valley, Ill.	b/1,100	1921-
Illinois River at Kingston Mines, Ill.	b/15,200	1939-
Spoon River:		
Haw Creek:		
Hermon Creek:		
Brush Creek at Lake Bracken, near Galesburg, Ill.	9.14	1932-
Spoon River at London Mills, Ill.	b/1,070	1942-
Spoon River at Seville, Ill.	b/1,600	1914-
Illinois River at Havana, Ill.	-	1921-27.
Sangamon River at Mahomet, Ill.	356	1948-
Goose Creek near De Land, Ill.	47.3	1951-
Sangamon River at Monticello, Ill.	550	1908-12; 1914-
Sangamon River near Oakley, Ill.	750	1951-
Sangamon River at Decatur, Ill.	-	1905*.
Sangamon River at Lake Decatur, Ill.	906	1948-51.
South Fork Sangamon River near Nokomis, Ill.	10.8	1950-
Flat Branch near Taylorville, Ill.	276	1949-
South Fork Sangamon River near Taylorville, Ill.	427	1908-12; 1914-17.
South Fork Sangamon River at Kincaid (power plant near Taylorville), Ill.	510	1917-33; 1944-
South Fork Sangamon River near Rochester, Ill.	809	1949-
Sangamon River at Riverton, Ill.	b/2,560	1908-12; 1914-
Sangamon River at Springfield, Ill.	-	1903*.
Spring Creek near Springfield, Ill.	107	1948-
Sangamon River at Petersburg, Ill.	b/3,050	1948-49.
Salt Creek near Rowell, Ill.	334	1942-
Salt Creek near Kenney, Ill.	459	1908-12.
Lake Fork near Cornland, Ill.	207	1948-
Kickapoo Creek at Waynesville, Ill.	227	1948-
Kickapoo Creek near Lincoln, Ill.	306	1944-
Sugar Creek near Armington, Ill.	307	1948-49.
Sugar Creek near Hartsburg, Ill.	335	1944-
Salt Creek near Greenview, Ill.	b/1,800	1941-
Crane Creek near Easton, Ill.	28.7	1949-
Sangamon River near Oakford, Ill.	b/5,120	1909-12; 1914-19; 1921- 22; 1928-33; 1939-

* Gage heights or gage heights and discharge measurements only.

b/ Approximately.

<u>Gaging station</u>	<u>Drainage area (sq mi)</u>	<u>Period of record</u>
Mississippi River--Continued.		
Illinois River basin--Continued.		
Sangamon River--Continued.		
Sangamon River near Chandlerville, Ill.	-	1908-9*.
Illinois River at Beardstown, Ill.	-	1920-38.
La Moine River at Colmar, Ill.	665	1944-
La Moine River at Ripley, Ill.	b/1,310	1921-
Illinois River at Meredosia, Ill.	b/25,300	1938- ; (1933-38)t/.
Mauvaise Terre Creek:		
North Fork Mauvaise Terre Creek near Jacksonville, Ill.	30.0	1949-
Hurricane Creek near Roodhouse, Ill.	2.33	1950- ††
Macoupin Creek near Kane, Ill.	875	1921-33; 1940-
Mississippi River at Alton (Grafton), Ill.	b/171,500	1928- ; (1879-1927*)t/.
Cahokia Creek basin		
Cahokia diversion channel: v/		
Indian Creek at Wanda, Ill.	37.0	1940-
Cahokia Creek near Poag, Ill.	259	1909-12.
Long Lake at Stallings, Ill.	b/5.0	1939-49.
Canteen Creek at Caseyville, Ill.	22.5	1939-
Kaskaskia River basin		
Kaskaskia River at Bondville, Ill.	12.3	1948-
Kaskaskia River at Ficklin, Ill.	127	1954-
Kaskaskia River near Arcola, Ill.	390	1908-12.
Asa Creek at Sullivan, Ill.	7.93	1950-
Kaskaskia River at Shelbyville, Ill.	b/1,030	1908-12; 1914; 1940-
Kaskaskia River at Vandalia, Ill.	b/1,980	1908-12; 1914-
Kaskaskia River at Carlyle, Ill.	b/2,680	1908-12; 1914-15; 1938-
Crooked Creek:		
Centralia Reservoir Creek near Centralia, Ill.	b/7	1932-43; 1948-
Shoal Creek near Breese, Ill.	b/760	1909-12; 1914; 1945-
Silver Creek near Lebanon, Ill.	335	1908-12; 1914.
Kaskaskia River at New Athens, Ill.	b/5,220	1907-12; 1914-21; 1935-
Marys River basin		
Marys River near Sparta, Ill.	17.8	1949-
Big Muddy River basin		
Big Muddy River near Benton, Ill.	498	1945-
Middle Fork Big Muddy River:		
Ewing Creek:		
Tilley Creek near West Frankfort, Ill.	4.03	1938-46; 1948-
Big Muddy River at Plumfield (near Cambon), Ill.	753	1908-12; 1914-
Crab Orchard Creek near Marion, Ill.	31.9	1951-
Crab Orchard Lake near Carbondale, Ill.	-	1952- *
Beaucoup Creek near Pinckneyville, Ill.	227	1908-12; 1914.
Beaucoup Creek near Matthews, Ill.	291	1945-
Big Muddy River at Murphysboro, Ill.	b/2,170	1916-
Cache River basin		
Cache River:		
Big Creek near Wetaug, Ill.	32.2	1941- u/

* Gage heights or gage heights and discharge measurements only.

†† Unpublished.

b/ Approximately.

t/ In reports of Mississippi River Commission.

u/ Records are published in Part 3A for the period 1941-51.

v/ Flow of upper part of Cahokia Creek diverted into Mississippi River about 15 miles upstream from natural mouth of creek on Apr. 7, 1912.

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Bowen Lake, Minn.	8
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