Discharge at Miscellaneous Sites

Discharge measurements made at miscellaneous sites during the 2002 water year are listed in the following table. Those measurements of base flow are designated by an asterisk (\*) and measurements from earlier water years but not previously published by an (a). Stations previously published as Continuous Record Sites are designated by an (#), those sites published as an High-Flow Partial-Record are designated by an (+) estimated values designated by (a).

Stream Name and			Drainage	Measured previously	Measurements	
[Station No.]	Tributary to	Location	area (mi²)	(water years)	Date	Discharge (ft <sup>3</sup> /s)
		Lake Superior Basin				
Brule River near Hovland (04011000)	Lake Superior	Lat 47°49'06", long 90°03'04" in SE1/4 SW1/4 sec. 27, T.62 N., R.3 E., Cook County, Hydrologic Unit 04010101, at bridge on U.S. Highway 61, 0.3 mile upstream from mouth, 4.5 miles southwest of Hovland.	a264	1912, 1970-71 1974, 1976, 1986	04-16-02 04-22-02	568 570
Popular River at Superior National Golf Course near Lutsen (04012500)	Lake Superior	Lat 47°38'29", long 90°42'36" in SW1/4 NE1/4 sec. 33, T.60 N., R.3 W., Cook County, Hydrologic Unit 04010101, at golf course 500 ft upstream from U.S. Hwy 61, 2 miles southwest of Lutsen (within 300 ft of old gage).	112	#1912-17, #1930-47, #1953-61, +1976-87, 2001	11-29-01 04-16-02 04-22-02	160 295 144
Sucker Creek near Palmers (04015339)	Lake Superior	Lat 46°55'57", long 91°51'29", in NW1/4 SE1/4 sec. 4, T.5 N., R.12 W., St. Louis County, Hydrologic Unit 04010102, at culvert on County Road 290, 1 mile northwest of Palmers, 0.4 mile above U.S. Highway 61 and 0.7 mile above site 04015340.		2001	04-13-02 04-15-02 06-24-02	247 325 369
Talmadge River at Co. Rd. 281 near Duluth (04015368)	Lake Superior	Lat 46°53'55", long 91°56'30", in SE1/4 SE1/4 sec. 14, T.51 N., R.13 W., St. Louis County, Hydrologic Unit 04010102, at bridge on County Road 281, 1.1 miles above site 04015370, 1.3 miles northwest of Clifton.		2001	04-13-02 06-24-02 07-08-02	63.8 46.7 179
Amity Creek at Duluth (04015387)	Lake Superior	Lat 46°50'39", long 92°00'36", in SE1/4 NE1/4 sec. 5, T.50 N., R.13 W., St. Louis County, Hydrologic Unit 04010102, at bridge on Parkway Road, 0.4 mile upstream from Lester River, 6 miles northeast of aerial bridge in Duluth.	16.2	1970-71, 1974, 1976, 1980, 1983, 1986	04-11-02 04-12-02 06-24-02 07-08-02	260 113 184 302
		Red River of the North Basin				
Ottertail River below Fergus Falls (05045900)	Red River of the North	Lat 46°16'32", long 96°08'03", in SE1/4 NW1/4 sec. 6, T.132 N., R.43 W., Ottertail County, Hydrologic Unit 09020103, at culverts on road, one mile south and 2.5 miles east of Fergus Falls.		2001	10-11-01 11-08-01 12-13-01 02-14-02 04-17-02 05-16-02 06-03-02 07-11-02 07-22-02 08-05-02 08-19-02 09-12-02 09-25-02	*264 *348 *507 *441 738 874 700 484 851 693 656 *463 622 *399
Ottertail River near Everdell (05046270)	Red River of the North	Lat 46°13'00", long 96°24'31", in SE1/4 NE1/4 sec. 26, T.132 N., R.46 W., Wilkin County, Hydrologic Unit 09020103, at bridge on county road, 8.7 miles east and 4.5 miles south of Breckenridge.		2001	10-10-01 11-07-01 12-12-01 01-16-02 03-20-02 04-17-02 05-15-02 06-05-02 07-10-02 07-24-02 08-07-02 08-21-02 09-25-02	*384 *440 *577 *481 560 768 932 742 677 1,340 706 605 707 690 *447

Stream Name and [Station No.]			Drainage	Measured previously	Measurements	
	Tributary to	Location	area (mi²)	(water years)	Date	Discharge (ft <sup>3</sup> /s)
		Red River of the North (continued)				
Ottertail River above Breckenridge (05046450)	Red River of the North	Lat 46°15'42", long 96°32'45", in SE1/4 NW1/4 sec. 11, T.132 N., R.47 W., Wilkin County, Hydrologic Unit 09020103, at bridge on county road, 2 miles east of Breckenridge.		2001	10-10-01 11-07-01 12-12-01 02-12-02 03-20-02 04-17-02 05-15-02 06-05-02 07-10-02 07-24-02 08-07-02 08-20-02 09-11-02 09-24-02	*468 *411 *545 *488 *525 729 910 751 569 1,190 677 604 *510 667 *544
Ottertail- River on 11th St. in Breckenridge (05046502)	Red River of the North	Lat 46°16'28", long 96°34'47", in NE1/4 SE1/4 sec. 4, T.132 N., R.47 Wilkin County, Hydrologic Unit 09020103, at bridge on 11th St., in Breckenridge.		2001	10-10-01 11-07-01 01-16-02 02-13-02 03-20-02 04-17-02 05-15-02 06-05-02 06-26-02 07-10-02 07-24-02 08-07-02 08-21-02 09-11-02 09-25-02	533 608 573 540 607 837 1,000 793 829 1,220 754 636 694 812 477
Mustinka River below Norcross (05047010)	Red River of the North	Lat 45°53'15", long 96°12'48", in NE1/4 NE1/4 sec. 20, T.128 N., R.45 W., Grant County, Hydrologic Unit 09020102, at bridge on County Highway 9, 1.3 miles northwest of Norcross.		1943-44, 1950, 2001	10-09-01 11-05-01 12-11-01 01-15-02 02-12-02 03-19-02 04-16-02 05-14-02 06-04-02 06-02-02 07-09-02 07-23-02 08-06-02 09-10-02 09-24-02	*6.54 *12.3 *17.5 *12.5 *9.60 *14.0 37.7 95.6 25.1 *7.13 228 205 63.2 30.6 14.5 *4.41
Mustinka River above Wheaton (05049000)	Red River of the North	Lat 45°49'15", long 96°29'25", in SW1/4 SW1/4 sec. 8, T.127 N., R.46 W., Traverse County, Hydrologic Unit 09020102, at bridge on U.S. Highway 75, 1 mile upstream from Chicago, Milwaukee and St. Paul Railroad bridge, 0.5 mile north of Wheaton, about 8 miles above Lake Traverse.	810	1915-24# 1930-58# +1985- current year	2-12-02 3-19-02	*5.82 *29.2
Rabbit River near Nashua (05050700)	Red River of the North	Lat 46°04'30", long 96°18'24", in SE1/4 NE1/4 sec. 15, T.130 N., R.45 W., Wilkin County, Hydrologic Unit 09020101, at bridge on county road, 4.7 miles east and 2.3 miles south of Campbell.	99.2	+1979- current year	11-06-01 12-11-01 01-15-02 02-12-02 04-16-02 05-14-02 07-09-02 07-23-02 08-06-02 08-20-02 09-12-02	*1.49 *2.48 *1.27 *1.01 17.8 30.8 *3.41 86.6 35.1 11.6 6.16 *1.78
Rabbit River at Campbell (05051000)	Red River of the North	Lat 46°05'40", long 96°24'37", in SE1/4 SE1/4 sec. 2, T.130 N., R.46 W., Wilkin County, Hydrologic Unit 09020101, at bridge on County Road 4, at west edge of Campbell.	266	1942, 1952, 1964-65, 1970, 1998, 2001	04-16-02 05-14-02 06-04-02 07-09-02 07-23-02 08-06-02	24.2 51.1 *2.63 170 38.1 *9.43

Stream Name and	Tributary	Logation	Drainage area	Measured previously		irements
[Station No.]	Tributary to	Location	area (mi <sup>2</sup> )	(water years)	Date	Discharge (ft <sup>3</sup> /s)
		Red River of the North (continued)				
Rabbit River near Camp- bell (05051200)	Red River of the North	Lat 46°06'43", long 96°29'32", in SE1/4 SE1/4 sec. 31, T.130 N., R.46 W., Wilkin County, Hydrologic Unit 09020101, at bridge on US Highway 75, 4 miles west, and 1.2 miles north of Campbell.		2001	11-06-01 12-11-01 01-16-02 02-13-02 03-19-02 04-16-02 05-14-02 06-04-02 07-10-02 07-23-02 08-06-02 08-20-02	*7.68 *3.02 *2.02 *0.90 *6.01 35.2 81.0 *4.05 648 60.7 16.4 *1.27
Whiskey Creek below Brushvale (05051515)	Red River of the North	Lat 46°23'55", long 96°39'08", in SW1/4 SW1/4 sec. 19, T.134 N., R.47 W., Wilkin County, Hydrologic Unit 09020104, at culverts on road, 2.7 miles south and 0.4 mile east of Kent.		2001	04-15-02 05-13-02	3.53 3.76
Whiskey Creek near Kent (05051520)	Red River of the North	Lat 46°24'48", long 96°39'30", in SE1/4 SE1/4 sec. 13, T.134 N., R.48 W., Wilkin County, Hydrologic Unit 09020104, at culverts on County Road 20, 1.6 miles south and 1.5 miles east of Kent.	80.0	1964-66, 1970-74, 1976, 1988, 2001	11-06-01 12-10-01 01-14-02 03-18-02 04-15-02 05-13-02 06-24-02 07-03-02 07-22-02 09-09-02 09-23-02	4.40 0.30 0.17 2.11 12.0 8.44 0.23 5.30 2.13 1.10 a0.04
Whiskey Creek at Kent (05051521)	Red River of the North	Lat 46°26'21", long 96°40'43", in NE1/4 NE1/4 sec. 11, T.134 N., R.48 W., Wilkin County, Hydrologic Unit 09020104, at bridge on upstream left bank of US Highway 75, on northeast side of Kent.		2001	11-06-01 12-10-01 01-14-02 02-11-02 03-18-02 04-15-02 05-13-02 06-03-02 06-24-02 07-08-02 07-22-02 08-05-02 08-09-02 09-09-02	12.7 *4.02 *3.92 *4.89 *0.95 33.0 48.4 *4.82 8.21 57.6 9.18 *2.70 *1.11 *3.26 *3.78
Judicial Ditch 64 near Mentor (05078470)	Badger Creek	Lat 47°44'16", long 96°12'09", in SE1/4 NE1/4 sec. 7, T.149 N., R.43 W., Polk County, Hydrologic Unit 09020303, at culverts on township road, 0.5 mile north of U.S. Highway 2, 4.2 miles northwest of Mentor.			06-25-02 08-06-02 08-29-02 09-05-02	19.0 *0.22 8.49 20.8
Cyr Creek near Mar- coux Corners (05078520)	Red Lake River	Lat 47°48'13", long 96°16'36", in NW1/4 NE1/4 sec. 22, T.150 N., R.44 W., Red Lake County, Hydrologic Unit 09020303, at culvert on County State Aid Highway 14, 0.5 mile west of State Highway 32, 3.0 miles north of Marcoux Corners.			06-25-02 08-06-02 08-29-02 08-29-02 09-05-02	17.9 *0.14 108 107 16.0
County Ditch 140 near Benoit (05078730)	Gentilly River	Lat 47°41'15", long 96°22'22", in NW1/4 NW1/4 sec. 36, T.149 N., R.45 W., Polk County, Hydrologic Unit 09020303, at culvert on field access road, 1.0 mile south of County State Aid Highway 45, 1.4 miles southeast of Benoit.			06-25-02 08-06-02 08-29-02 08-30-02	16.6 *0.67 *4.82 22.2

Stream Name and			Drainage	Measured previously		urements
[Station No.]	Tributary to	Location	area (mi²)	(water years)	Date	Discharge (ft <sup>3</sup> /s)
		Red River of the North (continued)				
Unnamed Ditch near Benoit	Gentilly River	Lat 47°43′52″, long 96°22′22″, in NW1/4 NW1/4 sec. 13, T.149 N., R.45 W., Polk County, Hydrologic Unit 09020303, at culvert on township road, 1.0 mile east of County State Aid Highway 44, 2.3 miles northeast of Benoit.			06-25-02	10.8
Judicial Ditch 66, near Marcoux Corners (05078770)	Kripple Creek	Lat 47°46'36", long 96°19'31", in SW1/4 NW1/4 sec. 29, T.150 N., R.44 W., Red Lake County, Hydrologic Unit 09020303, at culvert on Township Road, 1.5 miles north of U.S. Highway 2, 3.4 miles northwest of Marcoux Corners.			08-29-02 09-06-02	32.4 23.8
Judicial Ditch 66 on State Hwy 2 near Mar- coux Corners	Kripple Creek	Lat 47°45'38", long 96°18'45", in SE1/4 SE1/4 sec. 32, T.150 N., R.44 W., Red Lake County, Hydrologic Unit 09020303, at culvert on State Highway 2, 2.1 miles west of Marcoux Corners.			06-25-02 08-06-02	20.4 *1.35
County Ditch 72 (Burnham Creek) near Maple Bay (05079200)	County Ditch 11	Lat 47°38'19", long 96°16'48", in SE1/4 NE1/4 sec. 17, T.148 N., R.44 W., Polk County, Hydrologic Unit 09020303, at culvert on State Highway 32, 2.4 miles west of Maple Bay.			06-25-02 08-05-02 08-28-02 09-05-02	5.25 *0.57 4.57 23.0
County Ditch 65 near Maple Bay (05079250)	County Ditch 72	Lat 47°36'43", long 96°16'45", in SE1/4 NE1/4 sec. 29, T.148 N., R.44 W., Polk County, Hydrologic Unit 09020303, at culvert on State Highway 32, 3.0 miles southwest of Maple Bay.			06-25-02 08-05-02 08-28-02 09-04-02	11.4 *0.09 2.31 30.7
		Mississippi River Basin				
Mississippi River at Franklin Ave. in Min- neapolis (05288930)	Gulf of Mexico	Lat 44°57'49", long 93°13'22", in SE1/4 SW1/4 sec. 24, T.29 N., R.24 W., Ramsey County, Hydrologic Unit 07010206, at Franklin Ave. Bridge, at River mile 853.2 above mouth of Ohio River, in Minneapolis.		1976-82 1984-86 1990-93 1995-97 1999-2000	10-18-02	15,800
		Minnesota River Basin				
Christina Lake out- let near Ashby (05293255)	Pomme de Terre River	Lat 46°04'18", long 95°46'15", in SE1/4 NE1/4 sec. 13, T.130 N. R.41 W., Grant County, Hydrologic Unit 07020002, at downstream side of fish gate at Lake Christina outlet, 2.4 miles southeast of Ashby.			08-19-02	21.8
Pelican Lake near Ashby (05293280)	Pomme de Terre River	Lat 46°04'27", long 95°48'59", in SW1/4 NE1/4 sec. 15, T.130 N., R.41 W., Grant County, Hydrologic Unit 07020002, at culvert under County Road 10, 0.9 mile south of Ashby.			08-19-02	17.8
North Branch Rush River at Sibley County Rd. 9, near New Rome (05326090)	Rush Creek	Lat 44°30'48", long 94°05'26", in NE1/4 NE1/4 sec. 17, T.112 N. R.27 W., Sibley County, Hydrologic Unit 07020012, at bridge on County Road 9, 6 miles south of Arlington, 2 miles south of New Rome.			07-11-02	31.1

Stream Name and [Station No.]	Tributary to	Location	Drainage	Measured previously - (water years)	Measurements	
			area (mi²)		Date	Discharge (ft <sup>3</sup> /s)
		Minnesota River Basin (continued)				
Middle Branch Rush River at Co. Rd. 13 near New Swe- den (05326105)	Rush River	Lat 44°28'32", long 94°09'00", in NW1/4 SW1/4 sec. 25, T.112 N. R.28 W., Sibley County, Hydrologic Unit 07020012, at bridge on County Road 13, 5 miles northeast of New Sweden.			08-01-02	12.9
South Branch Rush River at Co. Rd. 9, near Norseland (05326190)	Rush River	Lat 44°28'04", long 94°07'12", in NE1/4 NW1/4 sec. 31, T.112 N. R.27 W., Sibley County, Hydrologic Unit 07020012, at bridge on County Road 9, 3.7 miles north of Norseland.			07-09-02	15.8
Judicial Ditch 1A near Norseland (05326205)	South Branch Rush River	Lat 44°26'36", long 94°07'12", in SE1/4 SW1/4 sec. 6, T.111 N. R.27 W., Nicollet County, Hydrologic Unit 07020012, at bridge on County Road 3, 2.2 miles north of Norseland.			07-11-02	23.4
Rush River near Hend- erson (05326400)	Minnesota River	Lat 44°29'57", long 93°54'18", in NW1/4 NW1/4 sec. 24, T.112 N. R.26 W., Sibley County, Hydrologic Unit 07020012, at bridge on State Highway 93, 0.4 mile upstream from mouth, and 2.0 miles south of Henderson.	397	1970-71, 1976, 1979-80, 1984-85 1987-92, 2000	7/9/02	109
Chippewa River diversion at Watson Sag Wier (05304980)	Chippewa River	Lat 45°01'30", long 95°47'49",in SE 1/4 sec. 16, T.118 N., R.41 W., Chippewa County, Hydrologic Unit 07020001, at bridge on county road, 1 mile north of Watson.		1945-90, 1991, 2001	04-11-01 10-11-01 04-11-02	8,560 87.7 472
		Zumbro River Basin				
Bear Creek tributary near Ches- ter (05372915)	Zumbro River	Lat 44°00'43", long 92°22'10", in SE1/4 NE1/4 sec. 3, T.106 N., R.13 W., Olmsted County, Hydrologic Unit 07040004, 0.25 mile north of Highway 14, 2.2 miles east of Rochester Community and Technical College and 3 miles east of Rochester.			08-27-02	*0.42