Table 10. Maximum stages and discharges prior to and during March 1–September 30, 1993, in Minnesota

[mi^2, square miles; ft, feet above an arbitrary datum; ft^3/s, cubic feet per second; --, not determined or not applicable; <, less than; >, greater than. Source: Recurrence intervals calculated from U.S. Geological Survey data. Other data from U.S. Geological Survey reports or data bases]

Site no. (fig. 19)	Station no.	Stream and place of determination	Drainage area (mi^2)	Maximum prior to 1993				Maximum during March–September 1993			
				Period	Year	Stage (ft)	Dis-charge (ft^3/s)	Date (month/day)	Stage (ft)	Dis-charge (ft^3/s)	Discharge recurrence interval (years)
1	05200510	Mississippi River near Bemidji, MN	610	1988–93	1989	4.87	887	05/07	4.93	938	--
2	05201500	Mississippi River at Winnibigoshish Dam near Deer River, MN	1,442	1885–93	1905	--	[1]4,370	08/06	--	[1]1,100	<2
3	05206500	Leech Lake River at Federal Dam, MN	1,163	1885–93	1957	--	[1,2]2,520	09/14	--	[1]840	<2
4	05211000	Mississippi River at Grand Rapids, MN	3,370	1884–93	1948	15.20	[2]12,500	07/20	10.26	3,030	4
5	05219000	Sandy River at Sandy Lake Dam near Deer River, MN	421	1896–93	1897	--	[1]3,740	06/25	--	[1]1,610	3
6	05227500	Mississippi River at Aitkin, MN	6,140	1945–93	1950	22.49	[1]19,900	07/10	14.20	[1]9,780	4
7	05231000	Pine River at Cross Lake Dam near Deer River, MN	562	1887–93	1896	--	[1]2,250	07/16	--	[1]1,250	3
8	05242300	Mississippi River at Brainerd, MN	7,320	1988–93	1989	12.40	10,800	07/10	13.65	12,200	10
9	05243725	Straight River near Park Rapids, MN	53.2	1987–93	1989	2.24	89	04/25	2.00	93	10
					1991	[3]2.71	--				
10	05244000	Crow Wing River at Nimrod, MN	1,010	1910–93	1950	[3]7.64	--	04/01	[3]5.60	--	
					1973	7.35	3,700	03/31	[3]5.55	[1]1,300	2
11	05245100	Long Prairie River at Long Prairie, MN	432	1972–93	1972	9.37	3,270	05/31	5.02	550	<2
								07/10	5.24	--	
12	05247000	Gull River at Gull Lake Dam near Brainerd, MN	287	1912–93	1938	--	1,120	06/01	--	584	4
13	05247500	Crow Wing River near Pillager, MN	3,520	1924–93	1965	--	[1]18,300	06/02	7.07	7,360	3
14	05261000	Mississippi River near Fort Ripley, MN	11,010	1971–93	1979	13.58	28,000	07/14	9.70	16,700	2
15	05267000	Mississippi River near Royalton, MN	11,600	1924–93	1965	--	[1]37,700	07/11	--	19,000	3
16	05270500	Sauk River near St. Cloud, MN	925	1909–93	1965	10.68	9,100	07/08	5.28	1,970	3
17	05270700	Mississippi River at St. Cloud, MN	13,320	1989–93	1991	7.71	19,700	07/11	8.08	21,700	2
18	05275000	Elk River near Big Lake, MN	615	1911–93	1965	10.86	7,360	06/30	2.97	716	<2
19	05280000	Crow River at Rockford, MN	2,520	1909–93	1965	19.27	22,400	07/08	13.23	10,000	12
20	05286000	Rum River near St. Francis, MN	1,360	1916–93	1965	11.57	10,100	07/02	5.64	2,410	<2
					1969	11.63	10,100				

Table 10. Maximum stages and discharges prior to and during March 1–September 30, 1993, in Minnesota—Continued

Site no. (fig. 19)	Station no.	Stream and place of determination	Drainage area (mi^2)	Maximum prior to 1993				Maximum during March–September 1993			
				Period	Year	Stage (ft)	Dis-charge (ft^3/s)	Date (month/day)	Stage (ft)	Dis-charge (ft^3/s)	Discharge recurrence interval (years)
21	05287890	Elm Creek near Champlin, MN	84.9	1979–93	1986	9.93	597	06/22	8.41	315	2
22	05288500	Mississippi River near Anoka, MN	19,100	1916–93	1965	19.53	91,000	07/11	10.26	34,600	3
23	05290000	Little Minnesota River near Peever, SD	447	1920–93	1943 1952	[3]13.35 12.16	-- 4,370	07/25	13.58	8,900	>100
24	05291000	Whetstone River near Big Stone City, SD	389	1910–93	1919 1969	26.0 14.32	[2]29,000 6,870	07/18	11.25	3,890	6
25	05292000	Minnesota River at Ortonville, MN	1,160	1920–93	1952	12.92	3,060	07/28	9.99	2,950	33
26	05292704	North Fork Yellow Bank River near Odessa, MN	--	1991–93	1992	13.32	2,020	07/26	12.02	1,480	--
27	05293000	Yellow Bank River near Odessa, MN	398	1920–93	1969	19.07	6,970	07/26	10.36	1,910	3
28	05294000	Pomme de Terre River at Appleton, MN	905	1920–93	1969	14.58	5,520	07/10	9.56	2,370	13
29	05300000	Lac qui Parle River near Lac qui Parle, MN	983	1910–18, 1920–93	1969	[3]19.37	17,100	06/23	12.20	4,520	7
30	05301000	Minnesota River near Lac qui Parle, MN	4,050	1920–23	1969	39.75	29,400	08/03	35.95	10,200	10
31	05304500	Chippewa River near Milan, MN	1,870	1920–93	1969	15.45	11,400	08/01	9.56	4,790	8
32	05311000	Minnesota River at Montevideo, MN	6,180	1909–93	1969	21.68	35,100	08/04	16.46	11,500	11
33	05313500	Yellow Medicine River near Granite Falls, MN	653	1882–93	1919	17.5	25,200	06/21	11.46	8,380	22
34	05315000	Redwood River near Marshall, MN	259	1920–93	1969	--	5,590	05/09	17.00	6,380	>100
35	05316500	Redwood River near Redwood Falls, MN	629	1920–93	1957	15.92	19,700	06/18	15.73	12,600	53
36	05317000	Cottonwood River near New Ulm, MN	1,280	1920–93	1965 1969	[3]20.86 19.15	-- 28,700	06/19	18.90	24,300	83
37	05317200	Little Cottonwood River near Courtland, MN	230	1973–93	1985	8.96	1,340	06/20	10.45	3,520	50
38	05319500	Watonwan River near Garden City, MN	851	1920–93	1965	18.72	19,000	06/20	15.91	13,900	55
39	05320000	Blue Earth River near Rapidan, MN	2,430	1882–93	1965	21.36	43,100	06/20	13.32	20,300	18
40	05320500	Le Sueur River near Rapidan, MN	1,100	1920–93	1965	22.72	24,700	06/21	13.32	11,500	13

Table 10. Maximum stages and discharges prior to and during March 1–September 30, 1993, in Minnesota—Continued

Site no. (fig. 19)	Station no.	Stream and place of determination	Drainage area (mi^2)	Maximum prior to 1993				Maximum during March–September 1993			
				Period	Year	Stage (ft)	Dis-charge (ft^3/s)	Date (month/day)	Stage (ft)	Dis-charge (ft^3/s)	Discharge recurrence interval (years)
41	05325000	Minnesota River at Mankato, MN	14,900	1881–93	1881	29.9	110,000	06/21	30.11	75,600	59
42	05327000	High Island Creek near Henderson, MN	237	1973–93	1981	9.09	--	06/17	9.72	2,750	22
					1992	8.32	1,770				
43	05330000	Minnesota River near Jordan, MN	16,200	1882–93	1965	35.07	117,000	06/24	33.52	92,200	71
44	05331000	Mississippi River at St. Paul, MN	36,800	1852–93	1965	26.01	171,000	06/26	19.15	104,000	30
45	05336700	Kettle River below Sandstone, MN	863	1951–93	1972	15.38	17,200	06/25	10.59	8,510	3
46	05337400	Knife River near Mora, MN	102	1972–93	1972	[2,3]14.0	--	06/25	4.21	489	<2
					1979	6.31	1,840				
47	05338500	Snake River near Pine City, MN	958	1914–93	1972	10.38	14,300	06/29	5.39	2,320	<2
48	05344500	Mississippi River at Prescott, WI	44,800	1852–93	1965	43.11	228,000	06/27	37.70	[1]130,000	27
49	05345000	Vermillion River near Empire, MN	110	1942–93	1992	10.00	6,570	06/18	8.37	1,780	7
50	05353800	Straight River near Faribault, MN	442	1966–93	1974	[3]12.74	--	06/17	11.16	5,730	12
					1990	11.31	6,030				
51	05355200	Cannon River at Welch, MN	1,320	1888–93	1965	14.01	36,100	06/17	13.19	17,200	15
52	05372995	South Fork Zumbro River at Rochester, MN	303	1855–93	1978	28.0	30,500	04/01	13.06	6,260	4
53	05376000	North Fork Whitewater River near Elba, MN	101	1966–93	1974	16.32	16,100	07/02	9.75	5,770	7
54	05378500	Mississippi River at Winona, MN	59,200	1879–93	1965	20.77	268,000	06/26	16.63	[1]168,000	16
55	05385000	Root River near Houston, MN	1,270	1909–93	1952	13.90	37,000	04/02	16.14	15,800	4
					1965	[3]18.32	--				
56	05457000	Cedar River near Austin, MN	425	1909–93	1978	20.35	12,400	08/15	19.43	10,800	25
57	05476000	Des Moines River at Jackson, MN	1,220	1909–93	1969	19.45	15,700	07/07	16.67	8,250	29

[1]Daily mean discharge.
[2]Stage and discharge resulted from dam failure.
[3]Backwater.