

Water-Data Report 2009

05288500 MISSISSIPPI RIVER NEAR ANOKA, MN

Upper Mississippi Basin
Twin Cities Subbasin

LOCATION.--Lat 45°07'36", long 93°17'48" referenced to North American Datum of 1927, in SW ¼ sec.12, T.119 N., R.21 W., Hennepin County, MN, Hydrologic Unit 07010206, on right bank 0.4 mi downstream from Coon Creek, 1.3 mi downstream from Coon Rapids dam at Coon Rapids, 6.5 mi downstream from Anoka, and at mile 864.8 upstream from Ohio River.

DRAINAGE AREA.--19,100 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1931 to current year. Prior to October 1931 published as "at Coon Rapids, near Anoka."

GAGE.--Water-stage recorder. Datum of gage is 804.53 ft above sea level (NGVD of 1929). Prior to June 14, 1932, at site 1.2 mi upstream at different datum.

REMARKS.--Records good except those for estimated days, which are fair. Flow slightly regulated by six reservoirs on headwaters; total usable capacity, 1,640,600 acre-ft. Diurnal regulation caused by Coon Rapids dam 1.3 mi. above station.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2,840	5,580	5,440	e4,310	e4,330	4,670	45,800	16,300	7,850	6,420	3,750	3,710
2	3,020	5,550	4,810	e4,600	e4,470	4,610	41,900	16,200	7,510	5,940	3,900	3,540
3	2,940	5,690	5,000	e4,400	e4,370	4,550	37,900	16,200	7,610	5,400	3,530	3,210
4	2,970	5,720	4,790	e4,000	e4,040	4,470	34,800	15,700	7,010	5,400	3,530	3,050
5	2,730	5,780	e4,280	e3,870	e4,160	4,610	33,100	15,600	6,710	5,250	3,440	2,960
6	2,800	5,820	e3,410	e3,910	e4,410	4,560	32,100	15,700	6,980	4,820	3,350	2,870
7	3,330	6,110	e3,170	e4,200	e4,380	4,490	30,700	15,200	6,620	4,470	3,380	2,820
8	4,300	6,480	e3,050	e4,370	e4,040	4,740	29,900	14,700	7,050	4,650	4,020	2,960
9	3,830	6,630	e3,010	e4,410	e4,080	4,650	29,000	14,400	7,010	4,060	4,400	2,750
10	4,380	6,610	e3,050	e4,360	e4,640	4,750	27,000	13,900	6,780	3,490	4,570	2,570
11	4,450	7,010	e3,200	e4,370	e4,800	4,610	26,000	13,700	6,940	3,560	4,410	2,640
12	5,180	7,410	e3,360	e4,350	5,040	e4,320	25,000	13,400	6,690	3,570	4,090	2,720
13	5,230	7,360	e3,490	e4,110	5,080	e4,480	24,100	12,900	6,600	3,500	4,040	2,910
14	5,760	7,540	e3,580	e3,950	5,090	5,000	23,400	12,600	6,430	3,090	3,980	2,690
15	5,680	7,290	e3,550	e3,850	5,320	5,170	22,600	12,400	6,350	3,880	3,850	2,650
16	6,260	7,420	e3,280	e3,880	5,530	5,740	22,100	12,600	6,360	4,310	3,930	2,600
17	5,910	7,110	e2,900	e4,040	5,510	6,840	21,700	12,300	7,050	5,060	4,550	2,490
18	6,110	7,020	e3,200	e4,420	5,490	8,820	21,200	12,000	6,880	4,980	4,300	2,360
19	6,060	6,630	e3,410	e4,680	5,350	11,100	20,900	12,000	6,330	4,540	4,890	2,450
20	6,010	6,670	e3,530	e4,730	5,480	13,000	20,200	11,800	6,480	4,120	5,320	2,370
21	5,990	5,940	e3,500	e4,520	5,510	14,100	19,800	11,600	7,020	4,780	5,780	2,190
22	5,520	5,120	e3,460	e4,510	5,120	16,000	19,400	11,300	6,960	5,110	5,790	2,170
23	6,100	5,580	e3,530	e4,510	5,130	18,100	18,400	10,800	7,360	4,560	5,810	2,200
24	6,090	5,420	e3,960	e4,420	4,910	25,100	18,200	10,700	7,280	4,230	5,570	2,290
25	5,750	5,180	e4,220	e4,050	4,910	34,400	17,800	10,100	7,170	4,500	5,480	2,320
26	5,880	4,910	e4,330	e4,040	4,720	39,000	17,400	9,660	7,390	4,390	5,220	2,340
27	5,880	5,460	e4,340	e4,290	4,930	41,100	17,100	9,360	7,410	4,270	4,940	2,320
28	6,390	5,460	e4,490	e4,260	4,820	43,500	16,800	8,900	7,420	4,230	4,550	2,290
29	6,140	5,520	e4,470	e4,290	---	46,600	16,300	8,480	6,960	4,420	4,160	2,280
30	5,730	6,100	e4,500	e4,290	---	47,900	16,500	8,140	6,850	3,910	3,930	2,310
31	5,730	---	e4,370	e4,300	---	48,500	---	8,110	---	4,070	3,650	---
Total	154,990	186,120	118,680	132,290	135,660	489,480	747,100	386,750	209,060	138,980	136,110	79,030
Mean	5,000	6,204	3,828	4,267	4,845	15,790	24,900	12,480	6,969	4,483	4,391	2,634
Max	6,390	7,540	5,440	4,730	5,530	48,500	45,800	16,300	7,850	6,420	5,810	3,710
Min	2,730	4,910	2,900	3,850	4,040	4,320	16,300	8,110	6,330	3,090	3,350	2,170
Ac-ft	307,400	369,200	235,400	262,400	269,100	970,900	1,482,000	767,100	414,700	275,700	270,000	156,800
Cfs/m	0.26	0.32	0.20	0.22	0.25	0.83	1.30	0.65	0.36	0.23	0.23	0.14
In.	0.30	0.36	0.23	0.26	0.26	0.95	1.46	0.75	0.41	0.27	0.27	0.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6,586	6,434	4,944	4,322	4,204	7,386	17,800	15,010	11,680	8,817	5,964	5,732
Max	21,250	22,800	10,800	8,304	9,948	23,410	43,690	39,760	29,910	27,240	22,490	23,570
(WY)	(1987)	(1972)	(1972)	(1986)	(1966)	(1966)	(1997)	(1986)	(1943)	(1993)	(1972)	(1986)
Min	1,128	1,152	1,006	935	1,079	1,602	3,575	2,796	1,646	1,022	715	888
(WY)	(1937)	(1937)	(1935)	(1935)	(1933)	(1940)	(1959)	(1934)	(1934)	(1934)	(1934)	(1934)

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SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1931 - 2009	
Annual total	2,702,340		2,914,250			
Annual mean	7,383		7,984		8,269	
Highest annual mean					17,750	1986
Lowest annual mean					1,603	1934
Highest daily mean	26,300	May 3	48,500	Mar 31	90,300	Apr 17, 1965
Lowest daily mean	1,870	Aug 26	2,170	Sep 22	602	Sep 10, 1934
Annual seven-day minimum	2,100	Aug 21	2,260	Sep 21	646	Aug 26, 1934
Maximum peak flow			49,000	Mar 31	91,000	Apr 17, 1965
Maximum peak stage			12.96	Mar 31	19.53	Apr 17, 1965
Instantaneous low flow			^{a,b} 1,690	Sep 27	^c 529	Aug 29, 1976
Annual runoff (ac-ft)	5,360,000		5,780,000		5,990,000	
Annual runoff (cfsm)	0.387		0.418		0.433	
Annual runoff (inches)	5.26		5.68		5.88	
10 percent exceeds	18,900		16,900		17,900	
50 percent exceeds	4,570		5,060		5,790	
90 percent exceeds	2,710		3,050		2,220	

^a Due to regulation.

^b Minimum recorded.

^c Due in part to regulation.

