Water-Data Report 2009

06601200 Missouri River at Decatur, NE

Missouri-Little Sioux Basin
Blackbird-Soldier Subbasin

LOCATION.--Lat 42°00′26″, long 96°14′29″ referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.36, T.24 N., R.10 E., Burt County, NE, Hydrologic Unit 10230001, on right bank 500 ft upstream from bridge on State Highway 175 in Decatur, and 691.0 mi upstream from mouth.

DRAINAGE AREA.--316,200 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,010.00 ft above NGVD of 1929, supplementary adjustment of 1954.

REMARKS.--Records are considered good. Flow regulated by upstream main-stem reservoirs. Fort Randall Dam was completed in July 1952, with storage beginning in December 1952. Gavins Point Dam was completed in July 1955, with storage beginning in December 1955. U.S. Army Corps of Engineers rain gage and data collection platform with satellite telemetry at station. Precipitation records are available online at the U.S. Army Corps of Engineers website: www2.mvr.usace.army.mil/WaterControl/datamining2.cfm.

06601200 Missouri River at Decatur, NE—Continued

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

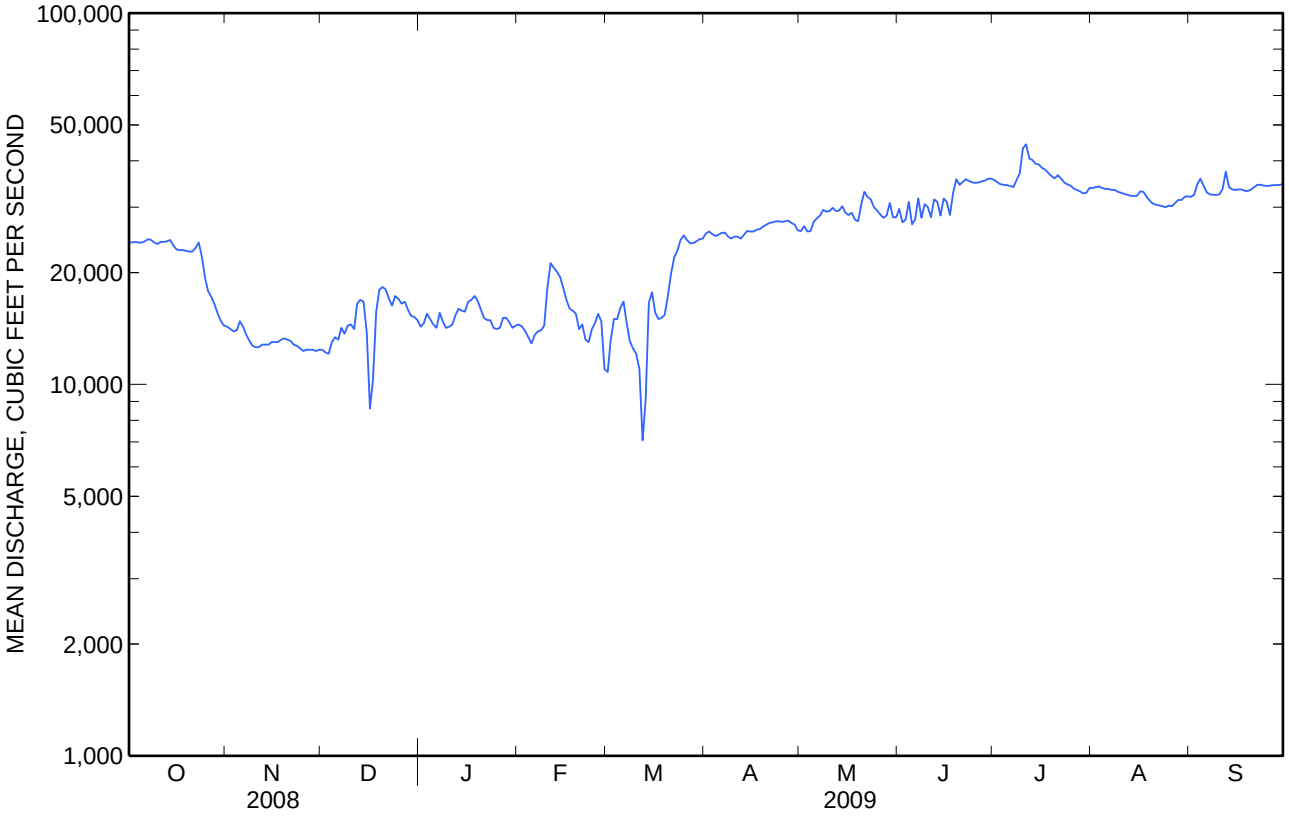
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	24,200	14,300	12,400	14,300	14,500	10,800	25,500	25,900	29,700	35,500	33,800	32,000
2	24,100	14,100	12,200	14,600	14,300	13,200	25,800	26,700	27,300	35,000	34,000	32,400
3	24,200	13,900	12,100	15,500	13,900	15,000	25,400	25,800	27,800	34,600	34,100	34,600
4	24,100	14,000	13,000	15,000	13,400	15,000	25,100	25,900	31,000	34,500	33,800	35,800
5	24,100	14,800	13,400	14,500	12,900	16,100	25,300	27,400	27,000	34,400	33,600	34,300
6	24,300	14,300	13,200	14,200	13,600	16,700	25,600	28,000	27,800	34,200	33,600	32,900
7	24,600	13,600	14,200	15,600	13,900	14,700	25,600	28,500	31,700	34,000	33,400	32,500
8	24,500	13,100	13,700	14,800	14,000	13,100	25,000	29,500	28,100	35,500	33,400	32,400
9	24,100	12,700	14,400	14,200	14,400	12,500	24,700	29,200	30,600	37,000	33,000	32,400
10	23,900	12,600	14,500	14,300	18,200	12,100	25,000	29,300	30,000	43,300	32,800	32,500
11	24,200	12,600	14,100	14,500	21,200	11,000	25,000	29,900	28,200	44,300	32,600	33,600
12	24,200	12,800	16,500	15,400	20,600	7,070	24,700	29,300	31,500	40,600	32,400	37,400
13	24,300	12,800	16,900	16,000	20,100	9,070	25,300	29,400	31,000	40,200	32,200	34,000
14	24,500	12,800	16,700	15,800	19,500	16,600	25,900	30,200	28,500	39,300	32,200	33,500
15	23,700	13,000	13,800	15,700	18,200	17,700	25,800	29,000	31,700	39,100	32,200	33,400
16	23,100	13,000	8,610	16,700	16,900	15,600	25,800	28,600	31,000	38,300	33,100	33,500
17	23,000	13,000	10,300	16,900	16,000	15,000	26,100	29,000	28,600	37,900	33,000	33,500
18	23,000	13,200	15,700	17,300	15,800	15,100	26,200	27,800	32,800	37,100	32,000	33,200
19	22,900	13,300	18,000	16,800	15,500	15,400	26,600	27,500	35,700	36,400	31,300	33,200
20	22,800	13,200	18,300	15,900	14,100	17,300	26,900	30,600	34,500	35,900	30,700	33,500
21	22,800	13,100	18,000	15,100	14,500	19,900	27,200	33,000	35,100	36,600	30,500	34,000
22	23,300	12,800	17,000	14,900	13,200	22,000	27,300	32,000	35,700	35,900	30,300	34,500
23	24,100	12,700	16,300	14,900	13,000	22,900	27,500	31,500	35,300	35,000	30,200	34,500
24	22,000	12,500	17,300	14,200	14,100	24,500	27,500	30,000	35,000	34,600	30,000	34,300
25	19,300	12,300	17,000	14,100	14,600	25,200	27,400	29,400	34,900	34,300	30,300	34,200
26	17,800	12,400	16,500	14,200	15,500	24,500	27,500	28,700	35,000	33,700	30,200	34,300
27	17,200	12,400	16,700	15,100	14,800	24,000	27,600	28,100	35,200	33,400	30,800	34,400
28	16,400	12,400	15,900	15,100	11,000	24,000	27,200	28,500	35,400	33,100	31,400	34,400
29	15,500	12,300	15,300	14,700	---	24,300	26,900	30,800	35,800	32,700	31,400	34,500
30	14,800	12,400	15,200	14,200	---	24,600	26,000	28,200	35,800	32,800	32,000	34,600
31	14,400	---	14,900	14,400	---	24,700	---	28,200	---	33,800	32,100	---
Total	685,400	392,400	462,110	468,900	431,700	539,640	783,400	895,900	957,700	1,123,000	996,400	1,014,300
Mean	22,110	13,080	14,910	15,130	15,420	17,410	26,110	28,900	31,920	36,230	32,140	33,810
Max	24,600	14,800	18,300	17,300	21,200	25,200	27,600	33,000	35,800	44,300	34,100	37,400
Min	14,400	12,300	8,610	14,100	11,000	7,070	24,700	25,800	27,000	32,700	30,000	32,000
Ac-ft	1,359,000	778,300	916,600	930,100	856,300	1,070,000	1,554,000	1,777,000	1,900,000	2,227,000	1,976,000	2,012,000
Cfsm	0.07	0.04	0.05	0.05	0.05	0.06	0.08	0.09	0.10	0.11	0.10	0.11
In.	0.08	0.05	0.05	0.06	0.05	0.06	0.09	0.11	0.11	0.13	0.12	0.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	33,050	27,960	19,790	17,830	18,620	23,230	32,840	34,300	35,900	35,240	33,900	35,000
Max	70,150	72,350	41,350	26,850	32,380	49,450	90,050	80,690	67,970	66,520	66,170	67,290
(WY)	(1998)	(1998)	(1998)	(1998)	(1997)	(1997)	(1997)	(1997)	(1997)	(1997)	(1997)	(1997)
Min	17,580	10,470	12,070	12,360	12,210	11,580	21,620	21,360	26,580	21,120	25,130	22,680
(WY)	(2007)	(1991)	(1991)	(1990)	(1991)	(1991)	(2008)	(2008)	(2007)	(2008)	(2008)	(2008)

06601200 Missouri River at Decatur, NE—Continued

SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1988 - 2009	
Annual total	7,206,310		8,750,850			
Annual mean	19,690		23,970		29,010	
Highest annual mean					57,440	1997
Lowest annual mean					19,650	2008
Highest daily mean	41,800	Jun 11	44,300	Jul 11	99,900	Apr 15, 1997
Lowest daily mean	8,610	Dec 16	7,070	Mar 12	7,070	Mar 12, 2009
Annual seven-day minimum	12,300	Nov 27	11,400	Mar 7	9,660	Dec 12, 1990
Maximum peak flow			45,100	Jul 10[a]	100,000	Apr 15, 1997
Maximum peak stage			25.74	Jul 11	32.31	Jul 18, 1996
Instantaneous low flow			6,660	Mar 12		
Annual runoff (ac-ft)	14,290,000		17,360,000		21,010,000	
Annual runoff (cfsm)	0.062		0.076		0.092	
Annual runoff (inches)	0.85		1.03		1.25	
10 percent exceeds	26,000		34,500		47,000	
50 percent exceeds	19,300		24,700		27,700	
90 percent exceeds	13,200		13,200		14,100	

[a] Also Jul 11.