

Water-Data Report 2012

06309000 YELLOWSTONE RIVER AT MILES CITY, MT

Lower Yellowstone Basin
Lower Yellowstone-Sunday Subbasin

LOCATION.--Lat 46°25'15", long 105°51'36" referenced to North American Datum of 1983, in NE ¼ SW ¼ NW ¼ sec.28, T.8 N., R.47 E., Custer County, MT, Hydrologic Unit 10100001, on left bank at upstream side of bridge on State Highway 22 at Miles City, 0.8 mi downstream from Tongue River, and at river mile 184.2.

DRAINAGE AREA.--48,253 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1922 to September 1923, August 1928 to current year. Monthly discharge only for some periods, published in Water Supply Paper (WSP) 1309.

REVISED RECORDS.--WSP 1729: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 2,333.3 ft, referenced to the National Geodetic Vertical Datum of 1929, levels by U.S. Army Corps of Engineers. Prior to May 6, 1929, nonrecording gages 1.2 mi downstream at different elevations. May 6, 1929, to Sept. 30, 1931, nonrecording gage, and Oct. 1, 1931, to Nov. 10, 1937, water-stage recorder 300 ft upstream from present site at same elevation. Nov. 11, 1937, to Sept. 30, 1946, water-stage recorder 1.2 mi downstream at different elevation. Oct. 1, 1946, to Mar. 15, 1979, water-stage recorder at site 300 ft upstream at present elevation. Mar. 16, 1979, to Sept. 21, 1979, nonrecording gage at present site and elevation. Sept. 22, 1979, recording gage established at same site and elevation.

REMARKS.--Records are good except for estimated daily discharges, which are poor. Some regulation occurs by reservoirs on tributary streams. Diversions for irrigation include about 1,100,000 acres upstream from station (does not include flood irrigation). Several unpublished observations of water temperature and specific conductance were obtained during the year. U.S. Army Corps of Engineers satellite telemeter is located at the station.

06309000 YELLOWSTONE RIVER AT MILES CITY, MT—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8,100	9,480	8,070	7,610	e7,900	6,800	7,230	16,900	16,000	18,200	7,040	3,380
2	8,060	9,230	8,080	7,560	e8,000	6,690	7,040	14,700	16,300	17,600	6,760	3,430
3	8,090	8,950	7,910	7,240	e8,000	6,820	6,840	13,200	16,800	17,000	6,390	3,490
4	8,090	9,070	7,580	7,270	e7,900	6,930	6,990	12,600	21,900	16,200	6,040	3,540
5	8,120	9,230	7,710	7,340	e7,800	7,040	7,450	11,900	29,700	15,800	5,900	3,570
6	8,070	8,940	7,130	7,440	e7,700	7,120	7,330	11,000	36,100	15,500	5,760	3,640
7	8,130	8,730	7,140	7,390	e7,600	7,830	7,070	10,400	40,900	14,900	5,590	3,720
8	8,550	8,770	6,380	7,280	e7,400	7,980	7,170	10,400	43,800	13,900	5,180	3,620
9	9,190	8,720	e6,400	7,130	e7,400	7,910	7,550	10,100	36,600	12,600	4,790	3,670
10	9,260	8,580	e6,400	6,970	e7,200	7,620	7,420	9,250	30,100	11,900	4,630	3,670
11	9,250	8,500	e6,800	7,020	e7,200	7,340	7,910	8,560	31,600	11,400	4,460	3,550
12	9,000	8,570	e7,300	e7,000	e6,900	7,240	10,600	8,910	31,200	10,900	4,530	3,500
13	9,030	8,570	e7,400	e7,000	6,680	7,280	9,430	11,900	25,500	10,600	4,720	3,540
14	9,370	8,580	e7,300	e6,700	6,950	7,210	7,770	11,500	22,200	10,400	4,720	3,730
15	9,600	8,610	e7,300	e6,600	7,270	7,080	7,920	10,900	21,000	10,100	4,730	3,860
16	9,960	8,530	7,740	e6,300	7,810	7,030	8,660	11,100	22,100	10,000	4,590	3,800
17	10,100	8,270	7,550	e6,000	7,580	7,000	8,470	13,000	22,800	10,300	4,640	3,770
18	10,100	8,230	7,390	e5,800	7,380	7,030	8,010	16,700	21,900	10,600	4,620	3,740
19	10,300	8,010	7,450	e3,510	7,180	7,070	7,580	19,900	22,400	10,800	4,480	3,750
20	10,600	e7,900	7,590	e3,880	7,270	7,370	7,360	22,200	24,800	10,600	4,300	3,760
21	10,700	e7,800	7,510	e3,920	7,050	7,700	7,350	21,600	25,100	9,890	4,100	3,680
22	10,600	e7,400	7,480	e5,200	6,670	7,750	7,290	18,400	22,400	9,460	3,860	3,700
23	10,600	e7,700	7,340	e5,700	6,700	7,470	7,130	16,800	20,000	8,900	3,720	3,640
24	10,500	8,250	7,390	e7,100	7,170	7,120	6,960	19,500	19,900	8,560	3,590	3,630
25	10,500	8,830	7,070	e7,700	7,660	7,010	7,370	25,800	21,300	8,140	3,620	3,530
26	10,400	8,720	6,880	e7,700	8,860	7,000	9,080	23,300	23,600	7,770	3,660	3,430
27	10,100	8,440	6,950	e7,700	8,280	7,050	12,600	20,800	24,400	7,450	3,590	3,400
28	10,100	8,250	7,210	e7,900	7,700	7,150	17,400	19,400	24,300	7,150	3,570	3,560
29	10,000	8,080	7,410	e7,800	7,120	7,270	19,400	18,300	23,700	6,970	3,550	3,650
30	9,470	8,060	7,470	e7,700	---	7,440	19,700	17,900	20,400	6,950	3,500	3,800
31	9,470	---	7,610	e7,700	---	7,410	---	16,700	---	7,160	3,340	---
Total	293,410	255,000	226,940	209,160	216,330	224,760	270,080	473,620	758,800	347,700	143,970	108,750
Mean	9,465	8,500	7,321	6,747	7,460	7,250	9,003	15,280	25,290	11,220	4,644	3,625
Max	10,700	9,480	8,080	7,900	8,860	7,980	19,700	25,800	43,800	18,200	7,040	3,860
Min	8,060	7,400	6,380	3,510	6,670	6,690	6,840	8,560	16,000	6,950	3,340	3,380
Ac-ft	582,000	505,800	450,100	414,900	429,100	445,800	535,700	939,400	1,505,000	689,700	285,600	215,700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2012, BY WATER YEAR (WY)*

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	7,619	7,041	5,730	5,298	6,082	8,022	8,136	17,410	34,540	20,140	8,058	7,062
Max	12,970	10,850	9,342	8,897	16,160	18,560	15,210	37,930	63,030	54,790	18,440	13,710
(WY)	(1972)	(1973)	(1983)	(1968)	(1971)	(1929)	(1943)	(2011)	(2011)	(2011)	(2011)	(1941)
Min	3,857	3,976	2,921	2,034	2,344	3,027	2,729	7,334	13,030	3,988	2,615	2,964
(WY)	(2004)	(1932)	(1933)	(1937)	(1932)	(2002)	(1961)	(1961)	(1934)	(1934)	(1961)	(1934)

*During periods of operation (1922-23, 1928 to current year).

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