

06329500 YELLOWSTONE RIVER NEAR SIDNEY, MT

Yellowstone Basin
Lower Yellowstone Subbasin

LOCATION.--Lat 47°40'42", long 104°09'22" referenced to North American Datum of 1927, in SW ¼ NE ¼ SW ¼ sec.9, T.22 N., R.59 E., Richland County, MT, Hydrologic Unit 10100004, on left bank at Montana-Dakota Utilities Company powerplant, 0.2 mi downstream from bridge on State Highway 23, 2.5 mi south of Sidney, 3.0 mi downstream from Fox Creek, and at river mile 29.2.

DRAINAGE AREA.--69,083 mi² of which 691 mi² probably is noncontributing. Area at site 4.5 mi upstream, 68,812 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1910 to September 1931 (published as "at Intake"), October 1933 to current year. If monthly figures of diversions to Lower Yellowstone Canal at Intake are added to records at this site, records equivalent to those published as Yellowstone River at Glendive (1898-1910, 1931-34) can be obtained. Monthly discharge only for some periods, published in Water Supply Paper (WSP) 1309. Monthly figures of diversions into Lower Yellowstone Canal prior to 1951 published in WSP 1309, 1951-60 published in WSP 1729, 1961-65 published in WSP 1916, 1966-70 published in WSP 2116, and 1971 to current year are published in annual reports.

REVISED RECORDS.--Water Data Report MT-04-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,881.3 ft, referenced to National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Jan. 1, 1911, to Sept. 30, 1931, nonrecording gage at site 32 miles upstream at different elevation. Apr. 9, 1934, water-stage recorder at two sites within 500 ft of highway bridge 0.2 mi upstream and May 17, 1945, to Apr. 3, 1952, nonrecording gage on same bridge at elevation 1.36 ft higher. Apr. 4, 1952, to Nov. 19, 1967, water-stage recorder at site 4.5 mi upstream at different elevation.

REMARKS.--Records are good except those for estimated daily discharges, which are poor. Flow is regulated to some extent by Bighorn Lake, usable capacity, 1,312,000 acre-ft, on the Bighorn River and on other tributary streams in Wyoming and Montana. Diversion for irrigation of about 1,250,000 acres occurs upstream from station. Lower Yellowstone Project Main Canal diverts from left bank in NW¼ sec.36, T.18 N., R.56 E., at Lower Yellowstone diversion dam at Intake about 36.6 mi upstream for irrigation of about 52,000 acres of which about one-third lies upstream from station. U.S. Army Corps of Engineers satellite telemeter is located at the station.

06329500 YELLOWSTONE RIVER NEAR SIDNEY, MT—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

[e, estimated; &, affected value]

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|--------------|---------|---------|---------|---------|---------|---------|---------|-----------|-----------|---------|---------|---------|
| 1 | 5,370 | 5,900 | e1,700 | e5,200 | e5,600 | e5,700 | 7,690 | 9,210 | 18,900 | 10,800 | 3,330 | 2,840 |
| 2 | 5,410 | 5,820 | e1,100 | e5,200 | e5,200 | e5,600 | 7,880 | 9,330 | 20,300 | 9,840 | 3,500 | 2,800 |
| 3 | 5,380 | 5,790 | e900 | e5,200 | e5,000 | e5,400 | 8,050 | 11,200 | 20,100 | 9,420 | 3,460 | 2,820 |
| 4 | 5,370 | 5,750 | e1,900 | e5,200 | e4,900 | e5,300 | 8,490 | 15,500 | 20,700 | 8,880 | 4,020 | 2,880 |
| 5 | 5,330 | 5,670 | e2,000 | e5,300 | e4,900 | e5,300 | 9,590 | 17,800 | 20,100 | 7,840 | 3,390 | 2,860 |
| 6 | 5,260 | 5,620 | e2,800 | e5,500 | e4,700 | e5,600 | 9,430 | 20,400 | 20,100 | 7,230 | 3,080 | 2,840 |
| 7 | 5,390 | 5,690 | e4,000 | e5,400 | e4,200 | e6,100 | 8,780 | 22,500 | 22,700 | 6,560 | 3,000 | 2,870 |
| 8 | 5,450 | 5,760 | e5,100 | e5,400 | e4,800 | e6,400 | 8,130 | 21,900 | 34,000 | 6,220 | 2,920 | 2,970 |
| 9 | 5,470 | 5,870 | e5,300 | e5,400 | e5,000 | e6,700 | 8,010 | 20,400 | 34,900 | 7,060 | 2,870 | 3,200 |
| 10 | 5,530 | 5,850 | e5,800 | e5,400 | e5,200 | e6,600 | 7,900 | 18,800 | 40,100 | 6,260 | 2,630 | 3,280 |
| 11 | 5,680 | 5,820 | e6,400 | e5,400 | e5,200 | e6,700 | 7,760 | 17,400 | 37,400 | 6,430 | 2,510 | 3,490 |
| 12 | 5,780 | 5,840 | e7,000 | e5,400 | e5,200 | e7,000 | 7,560 | 17,200 | 32,600 | 6,040 | 2,540 | 3,720 |
| 13 | 6,380 | 6,490 | e7,400 | e5,000 | e5,200 | e7,500 | 7,600 | 17,800 | 30,500 | 5,500 | 2,490 | 3,960 |
| 14 | 6,710 | 7,230 | e7,600 | e4,800 | e5,200 | e8,700 | 7,760 | 20,500 | 27,900 | 4,950 | 2,440 | 4,060 |
| 15 | 6,560 | 6,990 | e7,400 | e4,300 | e5,100 | e8,700 | 8,150 | 22,700 | 26,200 | 4,540 | 2,440 | 4,100 |
| 16 | 6,550 | 6,560 | e7,400 | e3,200 | e5,000 | e8,300 | 7,840 | 24,000 | 24,800 | 4,240 | 2,280 | 4,100 |
| 17 | 6,460 | 6,390 | e7,000 | e2,900 | e4,900 | e8,100 | 7,370 | 25,900 | 23,700 | 3,970 | 2,180 | 4,090 |
| 18 | 6,340 | 6,200 | e6,600 | e2,700 | e4,800 | e8,100 | 7,180 | 25,600 | 23,300 | 3,660 | 2,210 | 4,060 |
| 19 | 6,330 | 6,080 | e6,400 | e2,600 | e5,000 | e8,100 | 7,050 | 23,100 | 23,400 | 3,440 | 2,220 | 4,090 |
| 20 | 6,680 | 5,960 | e6,000 | e3,100 | e5,200 | 7,290 | 7,210 | 21,700 | 23,000 | 3,170 | 2,340 | 4,070 |
| 21 | 7,250 | 5,890 | e5,600 | e3,700 | e5,500 | 6,760 | 7,780 | 21,600 | 22,400 | 2,880 | 2,340 | 4,090 |
| 22 | 6,860 | 5,930 | e5,200 | e4,400 | e5,700 | 6,430 | 8,420 | 21,300 | 20,300 | 2,790 | 2,340 | 4,140 |
| 23 | 6,790 | 5,890 | e5,100 | e5,000 | e5,900 | 6,280 | 9,760 | 21,700 | 18,100 | 2,720 | 2,410 | 4,180 |
| 24 | 6,880 | 5,830 | e5,000 | e5,200 | e5,900 | 6,350 | 10,200 | 23,700 | 17,000 | 2,470 | 2,510 | 4,270 |
| 25 | 7,060 | 5,790 | e4,900 | e5,600 | e5,900 | 6,360 | 9,060 | 24,900 | 16,400 | 2,240 | 2,750 | 4,310 |
| 26 | 6,840 | 5,600 | e5,200 | e6,000 | e5,800 | 6,420 | 8,480 | 22,800 | 15,700 | 2,100 | 2,730 | 4,280 |
| 27 | 6,500 | e5,500 | e5,100 | e6,200 | e5,800 | 6,360 | 8,220 | 20,700 | 14,900 | 2,130 | 2,750 | 4,460 |
| 28 | 6,280 | e4,000 | e5,100 | e6,300 | e5,700 | 6,130 | 8,180 | 19,400 | 14,000 | 2,050 | 2,870 | 4,790 |
| 29 | 6,150 | e2,900 | e5,200 | e6,300 | --- | 6,660 | 8,330 | 17,700 | 12,900 | 2,230 | 3,040 | 4,820 |
| 30 | 6,110 | e2,000 | e5,400 | e6,300 | --- | 6,760 | 8,450 | 16,700 | 11,800 | 2,350 | 2,910 | 4,900 |
| 31 | 6,050 | --- | e5,300 | e6,000 | --- | 6,920 | --- | 16,700 | --- | 3,040 | 2,930 | --- |
| Total | 190,200 | 170,610 | 156,900 | 153,600 | 146,500 | 208,620 | 246,310 | 610,140 | 688,200 | 153,050 | 85,430 | 113,340 |
| Mean | 6,135 | 5,687 | 5,061 | 4,955 | 5,232 | 6,730 | 8,210 | 19,680 | 22,940 | 4,937 | 2,756 | 3,778 |
| Max | 7,250 | 7,230 | 7,600 | 6,300 | 5,900 | 8,700 | 10,200 | 25,900 | 40,100 | 10,800 | 4,020 | 4,900 |
| Min | 5,260 | 2,000 | 900 | 2,600 | 4,200 | 5,300 | 7,050 | 9,210 | 11,800 | 2,050 | 2,180 | 2,800 |
| Ac-ft | 377,300 | 338,400 | 311,200 | 304,700 | 290,600 | 413,800 | 488,600 | 1,210,000 | 1,365,000 | 303,600 | 169,500 | 224,800 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2007, BY WATER YEAR (WY) *

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Mean | 8,174 | 7,257 | 5,909 | 5,677 | 6,755 | 10,710 | 10,150 | 18,090 | 37,960 | 22,290 | 8,423 | 6,975 |
| Max | 29,130 | 12,150 | 9,594 | 13,110 | 17,750 | 25,980 | 39,160 | 38,100 | 77,280 | 55,000 | 20,470 | 16,000 |
| (WY) | (1924) | (1924) | (1976) | (1925) | (1971) | (1972) | (1924) | (1928) | (1918) | (1917) | (1912) | (1941) |
| Min | 3,726 | 3,700 | 3,019 | 2,087 | 2,702 | 3,235 | 2,821 | 5,409 | 11,580 | 3,311 | 1,602 | 2,389 |
| (WY) | (1922) | (1922) | (1961) | (1937) | (1936) | (2002) | (1961) | (1961) | (1919) | (1919) | (1961) | (1934) |

* During periods of operation 1911-31, 1934 to current year. Published as "at Intake" 1911-31.

06329500 YELLOWSTONE RIVER NEAR SIDNEY, MT—Continued

SUMMARY STATISTICS

| | Calendar Year 2006 | | Water Year 2007 | | Water Years 1911 - 2007* | |
|---------------------------------|--------------------|--------|-----------------|--------|-----------------------------------|--|
| Annual total | 2,885,590 | | 2,922,900 | | | |
| Annual mean | 7,906 | | 8,008 | | 12,380 | |
| Highest annual mean | | | | | 21,250 1924 | |
| Lowest annual mean | | | | | 5,673 2004 | |
| Highest daily mean | 32,900 | May 25 | 40,100 | Jun 10 | 142,000 Jun 21, 1921 | |
| Lowest daily mean | 900 | Dec 3 | 900 | Dec 3 | 570 May 17, 1961 | |
| Annual seven-day minimum | 1,770 | Nov 30 | 1,770 | Nov 30 | 1,010 Aug 8, 1961 | |
| Maximum peak flow | | | 41,900 | Jun 10 | ^a 159,000 Jun 21, 1921 | |
| Maximum peak stage | | | 12.58 | Jun 10 | ^b 24.03 Mar 6, 1994 | |
| Instantaneous low flow | | | | | ^c 470 May 17, 1961 | |
| Annual runoff (ac-ft) | 5,724,000 | | 5,798,000 | | 8,966,000 | |
| 10 percent exceeds | 14,900 | | 20,200 | | 27,600 | |
| 50 percent exceeds | 6,200 | | 5,820 | | 7,910 | |
| 90 percent exceeds | 2,290 | | 2,800 | | 4,010 | |

| | Water Years 1911 - 1965** | | Water Years 1967 - 2007*** | |
|---------------------------------|-----------------------------------|--|-----------------------------------|--|
| Annual mean | 12,890 | | 11,810 | |
| Highest annual mean | 21,250 1924 | | 19,150 1997 | |
| Lowest annual mean | 5,814 1934 | | 5,673 2004 | |
| Highest daily mean | 142,000 Jun 21, 1921 | | 104,000 May 23, 1978 | |
| Lowest daily mean | 570 May 17, 1961 | | 800 Jan 2, 1989 | |
| Annual seven-day minimum | 1,010 Aug 8, 1961 | | 1,060 Aug 23, 2001 | |
| Maximum peak flow | ^a 159,000 Jun 21, 1921 | | ^d 111,000 May 23, 1978 | |
| Maximum peak stage | ^b 21.85 Mar 22, 1947 | | ^b 24.03 Mar 6, 1994 | |
| Instantaneous low flow | ^c 470 May 17, 1961 | | | |
| Annual runoff (ac-ft) | 9,341,000 | | 8,557,000 | |
| 10 percent exceeds | 29,900 | | 25,100 | |
| 50 percent exceeds | 7,690 | | 8,290 | |
| 90 percent exceeds | 3,820 | | 4,450 | |

* During periods of operation 1911-31, 1934 to current year. Published as "at Intake" 1911-31.

** Prior to Bighorn Lake reaching operational level.

*** After Bighorn Lake reached operational level.

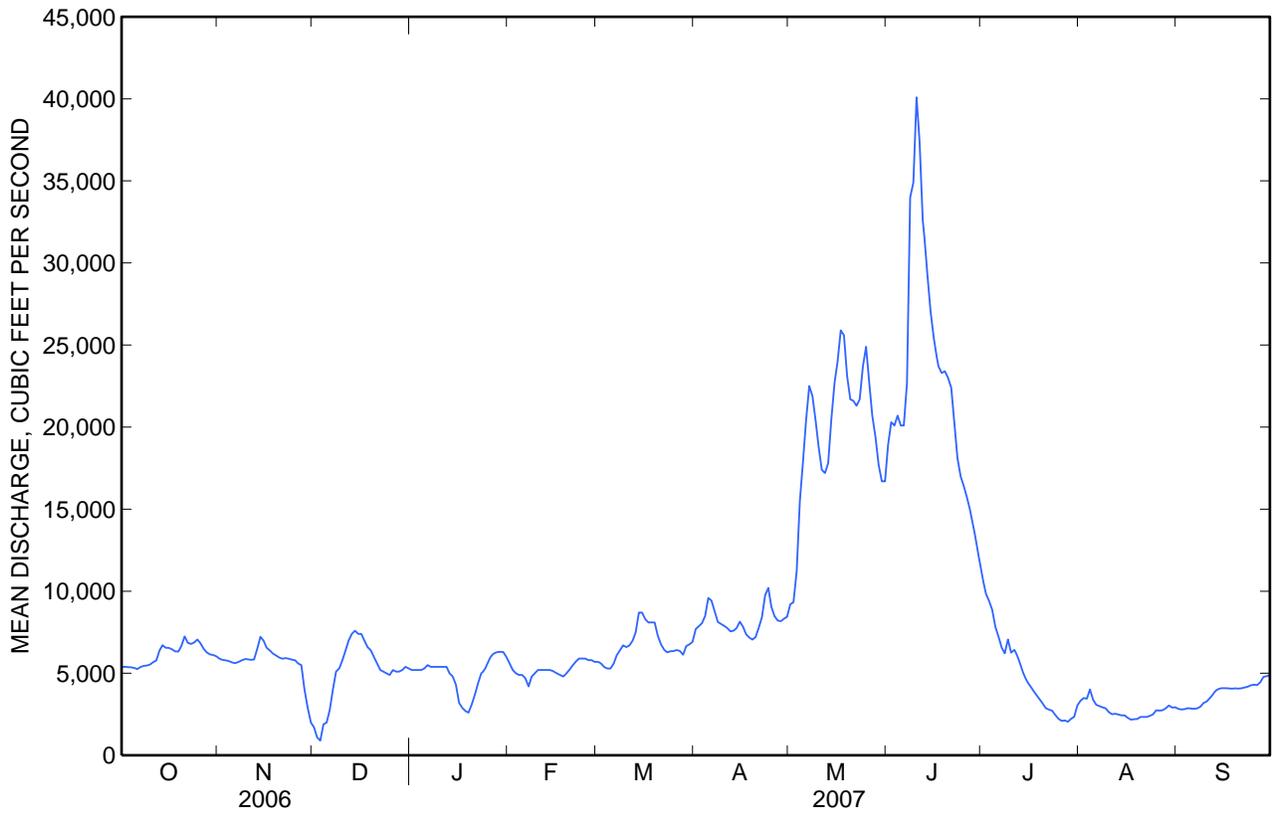
^a Gage height, 12.60 ft, site and datum then in use.

^b Backwater from ice.

^c Gage height, 2.73 ft, site and datum then in use.

^d Gage height, 20.02 ft.

06329500 YELLOWSTONE RIVER NEAR SIDNEY, MT—Continued



06329500 YELLOWSTONE RIVER NEAR SIDNEY, MT—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1948 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1964 to September 1981.

WATER TEMPERATURE: January 1951 to September 1985.

SUSPENDED-SEDIMENT DISCHARGE: October 1971 to September 1981, October 1982 to September 1991, seasonal records (March to November) from October 1991 to current year.

REMARKS.--Water-quality samples were collected this year as part of the National Water-Quality Assessment Program (NAWQA) for the Yellowstone River study unit under the direction of the USGS Wyoming Water Science Center. Several unpublished observations of specific conductance and water temperature were made during the year.

Daily sediment records are rated good except for several periods of storm runoff, which are rated fair to poor. Daily sediment data collected seasonally (October 2006 to November 2006 and March 2007 to September 2007) during open water.

Suspended and bed sediment samples plus the seasonal daily sediment record were obtained as part of the Corps of Engineers program. The September 12 bed sediment sample could not be collected due to equipment malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,220 microsiemens per centimeter ($\mu\text{S}/\text{cm}$) at 25.0°C, Apr. 6, 1979; minimum daily, 261 $\mu\text{S}/\text{cm}$ at 25.0°C, June 4, 1966.

WATER TEMPERATURE: Maximum, 29.0°C July 23, 1960; minimum, 0.0°C on many days during winter.

SEDIMENT CONCENTRATION: Maximum daily mean, 26,800 mg/L May 8, 1975; minimum daily mean, 8 mg/L Jan. 9, 1973.

SEDIMENT LOAD: Maximum daily, 3,030,000 tons May 8, 1975; minimum daily, 63 tons Jan. 2, 1989.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATION: During period of seasonal operation, maximum daily mean, 5,250 mg/L, June 8; minimum daily mean, 21 mg/L, July 30.

SEDIMENT LOAD: During period of seasonal operation, maximum daily, 482,000 tons, June 8; minimum daily, 130 tons, Nov. 30.

06329500 YELLOWSTONE RIVER NEAR SIDNEY, MT—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 1 of 11

[Remark codes: E, estimated.]

| Date | Time | Instantaneous discharge, cfs (00061) | Barometric pressure, mm Hg (00025) | Dissolved oxygen, mg/L (00300) | Dissolved oxygen, percent of saturation (00301) | pH, water, unfltrd field, std units (00400) | Specific conductance, wat unf 25 degC (00095) | Temperature, air, deg C (00020) | Temperature, water, deg C (00010) | Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086) | Bicarbonate, wat flt incrm. titr., field, mg/L (00453) | Carbonate, wat flt incrm. titr., field, mg/L (00452) |
|------------|------|--------------------------------------|------------------------------------|--------------------------------|---|---|---|---------------------------------|-----------------------------------|--|--|--|
| Oct | | | | | | | | | | | | |
| 19... | 1230 | 6,350 | 704 | 11.6 | 101 | 8.4 | 622 | 6.5 | 6.0 | 155 | 189 | -- |
| Nov | | | | | | | | | | | | |
| 27... | 1300 | E5,500 | 703 | 14.5 | 108 | 8.4 | 671 | -5.0 | 0.0 | 169 | 189 | 8 |
| Dec | | | | | | | | | | | | |
| 14... | 0945 | E7,600 | 704 | 13.6 | 101 | 8.8 | 751 | 5.0 | 0.0 | 187 | 226 | -- |
| Jan | | | | | | | | | | | | |
| 18... | 1330 | E2,700 | 711 | 15.2 | 112 | 8.3 | 798 | -2.0 | 0.0 | 218 | 266 | -- |
| Feb | | | | | | | | | | | | |
| 22... | 1645 | E5,700 | 710 | 12.2 | 90 | 7.9 | 685 | 0.0 | 0.0 | 161 | 196 | -- |
| Mar | | | | | | | | | | | | |
| 27... | 1620 | 6,290 | 707 | 10.3 | 101 | 8.4 | 759 | 15.5 | 10.7 | 151 | 169 | 7 |
| Apr | | | | | | | | | | | | |
| 09... | 1645 | 8,030 | 704 | 12.2 | 104 | 8.1 | 874 | 5.0 | 5.0 | 151 | 184 | -- |
| May | | | | | | | | | | | | |
| 22... | 1300 | 21,300 | 705 | 8.5 | 96 | 8.2 | 350 | 14.5 | 17.5 | 86 | 104 | -- |
| Jun | | | | | | | | | | | | |
| 01... | 1300 | 19,000 | 708 | 9.0 | 97 | 8.4 | 496 | 19.0 | 15.5 | 109 | 133 | -- |
| Jul | | | | | | | | | | | | |
| 19... | 1300 | 3,510 | 714 | 8.6 | 115 | 8.6 | 687 | 29.0 | 26.5 | 154 | 172 | 8 |
| Aug | | | | | | | | | | | | |
| 14... | 1230 | 2,450 | 713 | 8.0 | 97 | 8.4 | 797 | 26.5 | 21.5 | 167 | 195 | 4 |
| Sep | | | | | | | | | | | | |
| 10... | 1300 | 3,260 | 714 | 9.4 | 102 | 8.4 | 738 | 23.0 | 16.0 | 176 | 200 | 7 |

06329500 YELLOWSTONE RIVER NEAR SIDNEY, MT—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 11

[Remark codes: <, less than; E, estimated.]

| Date | Chlor- ide, water, fltrd, mg/L (00940) | Sulfate water, fltrd, mg/L (00945) | Ammonia water, fltrd, mg/L as N (00608) | Nitrate + nitrite water, fltrd, mg/L as N (00631) | Nitrite water, fltrd, mg/L as N (00613) | Total nitro- gen, water, unfltrd, mg/L (62855) | Ortho- phos- phate, water, fltrd, mg/L as P (00671) | Total phos- phorus, water, unfltrd mg/L (00665) | Suspnd. sedi- ment, sieve diametr percent <.063mm (70331) | Sus- pended sedi- ment concen- tration mg/L (80154) | Sus- pended sedi- ment dis- charge, tons/d (80155) |
|------------|---|--|--|--|--|--|--|---|--|--|---|
| Oct | | | | | | | | | | | |
| 19... | 8.18 | 144 | <.020 | .41 | .003 | .81 | E.003 | .104 | 92 | 125 | 2,140 |
| Nov | | | | | | | | | | | |
| 27... | 11.9 | 173 | <.020 | .13 | .003 | .38 | E.004 | .039 | 99 | 27 | E401 |
| Dec | | | | | | | | | | | |
| 14... | 10.7 | 189 | .020 | .61 | .005 | .84 | E.005 | .029 | 99 | 21 | E431 |
| Jan | | | | | | | | | | | |
| 18... | 15.3 | 240 | <.020 | .60 | .005 | .86 | E.005 | .020 | 97 | 16 | E117 |
| Feb | | | | | | | | | | | |
| 22... | 11.0 | 173 | .093 | .46 | .006 | .95 | E.006 | .072 | 98 | 77 | E1,180 |
| Mar | | | | | | | | | | | |
| 27... | 15.2 | 210 | <.020 | <.06 | E.001 | .45 | E.004 | .105 | 89 | 120 | 2,040 |
| Apr | | | | | | | | | | | |
| 09... | 16.6 | 266 | E.017 | .37 | .011 | 1.37 | E.004 | .36 | 95 | 727 | 15,800 |
| May | | | | | | | | | | | |
| 22... | 4.69 | 73.4 | <.020 | .17 | .018 | .70 | E.006 | .279 | 69 | 382 | 22,000 |
| Jun | | | | | | | | | | | |
| 01... | 6.96 | 118 | <.020 | .27 | .044 | 1.07 | E.004 | .37 | 88 | 1,240 | 63,700 |
| Jul | | | | | | | | | | | |
| 19... | 10.6 | 174 | <.020 | <.06 | <.002 | .36 | E.005 | .053 | 99 | 41 | 389 |
| Aug | | | | | | | | | | | |
| 14... | 12.6 | 223 | <.020 | .07 | E.002 | .57 | E.005 | .13 | 99 | 154 | 1,020 |
| Sep | | | | | | | | | | | |
| 10... | 12.0 | 223 | <.020 | <.06 | E.002 | .47 | E.004 | .136 | 99 | 91 | 801 |

06329500 YELLOWSTONE RIVER NEAR SIDNEY, MT—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 11

[Remark codes: <, less than; E, estimated.]

| Date | Time | 1-Naphthol, water, fltrd 0.7u GF µg/L (49295) | 2,6-Diethyl-aniline water, fltrd 0.7u GF µg/L (82660) | 2Chloro-2',6'-diethyl acet-anilide wat flt µg/L (61618) | CIAT, water, fltrd, µg/L (04040) | 2-Ethyl-6-methyl-aniline water, fltrd, µg/L (61620) | 3,4-Di-chloro-aniline water, fltrd, µg/L (61625) | 3,5-Di-chloro-aniline water, fltrd, µg/L (61627) | 4-Chloro-2methyl phenol, water, fltrd, µg/L (61633) | Aceto-chlor, water, fltrd, µg/L (49260) | Ala-chlor, water, fltrd, µg/L (46342) | alpha-Endo-sulfan, water, fltrd, µg/L (34362) | alpha-HCH-d6, surrog, Sch2003 wat flt percent recovry (99995) |
|-----------|------|--|--|--|--|---|--|--|---|---|---|---|---|
| Nov 27... | 1300 | <.09 | <.006 | <.006 | <.014 | <.010 | <.004 | <.012 | <.005 | <.006 | <.005 | <.011 | 91.8 |
| Jan 18... | 1330 | <.09 | <.006 | <.006 | E.005 | <.010 | <.004 | <.012 | <.005 | <.006 | <.005 | <.011 | 91.6 |
| Mar 27... | 1620 | <.09 | <.006 | <.006 | <.014 | <.010 | <.004 | <.012 | <.005 | <.006 | <.005 | <.011 | 88.8 |
| Apr 09... | 1645 | <.09 | <.006 | <.006 | <.014 | <.010 | <.004 | <.012 | <.005 | <.006 | <.005 | <.011 | 83.6 |
| May 22... | 1300 | <.09 | <.006 | <.006 | <.014 | <.010 | <.004 | <.012 | <.005 | <.006 | <.005 | <.011 | 93.7 |
| Jun 01... | 1300 | <.09 | <.006 | <.006 | <.014 | <.010 | <.004 | <.012 | <.005 | <.006 | <.005 | <.011 | 88.5 |
| Jul 19... | 1300 | <.09 | <.006 | <.006 | E.006 | <.010 | <.004 | <.012 | <.005 | <.006 | <.005 | <.011 | 93.4 |
| Aug 14... | 1230 | <.09 | <.006 | <.006 | <.014 | <.010 | <.004 | <.012 | <.005 | <.006 | <.005 | <.011 | 98.9 |
| Sep 10... | 1300 | <.09 | <.006 | <.006 | E.006 | <.010 | <.004 | <.012 | <.005 | <.006 | <.005 | <.011 | 87.0 |

06329500 YELLOWSTONE RIVER NEAR SIDNEY, MT—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 4 of 11

[Remark codes: <, less than; E, estimated.]

| Date | Atra- zine, water, fltrd, µg/L (39632) | Azin- phos- methyl water, fltrd, µg/L (61635) | Azin- phos- methyl, water, fltrd 0.7u GF µg/L (82686) | Ben- flur- alin, water, fltrd 0.7u GF µg/L (82673) | Car- baryl, water, fltrd 0.7u GF µg/L (82680) | Carbo- furan, water, fltrd 0.7u GF µg/L (82674) | Chlor- pyrifos oxon, water, fltrd, µg/L (61636) | Chlor- pyrifos water, fltrd, µg/L (38933) | cis- Per- methrin water fltrd 0.7u GF µg/L (82687) | cis- Propi- cona- zole, water, fltrd, µg/L (79846) | Cyana- zine, water, fltrd, µg/L (04041) | Cyflu- thrin, water, fltrd, µg/L (61585) | lambda- Cyhalo- thrin, water, fltrd, µg/L (61595) |
|---------------------|---|---|--|---|---|---|---|--|---|---|--|---|---|
| Nov 27... | <.007 | <.06 | <.080 | <.010 | <.060 | <.020 | <.06 | <.005 | <.010 | <.013 | <.018 | <.053 | <.014 |
| Jan 18... | E.005 | <.04 | <.080 | <.010 | <.060 | <.020 | <.06 | <.005 | <.010 | <.013 | <.018 | <.053 | <.014 |
| Mar 27... | E.005 | <.04 | <.080 | <.010 | <.060 | <.020 | <.06 | <.005 | <.010 | <.013 | <.018 | <.053 | <.014 |
| Apr 09... | <.007 | <.04 | <.080 | <.010 | <.060 | <.020 | <.06 | <.005 | <.010 | <.013 | <.018 | <.053 | <.014 |
| May 22... | <.007 | <.04 | <.080 | <.010 | <.060 | <.020 | <.06 | <.005 | <.010 | <.013 | <.018 | <.053 | <.014 |
| Jun 01... | <.007 | <.04 | <.080 | <.010 | <.060 | <.020 | <.06 | <.005 | <.010 | <.013 | <.018 | <.053 | <.014 |
| Jul 19... | .009 | <.04 | <.080 | <.010 | <.060 | <.020 | <.06 | <.005 | <.010 | <.013 | <.018 | <.053 | <.014 |
| Aug 14... | E.006 | <.04 | <.080 | <.010 | <.060 | <.020 | <.06 | <.005 | <.010 | <.013 | <.018 | <.053 | <.014 |
| Sep 10... | .009 | <.04 | <.080 | <.010 | <.060 | <.020 | <.06 | <.005 | <.010 | <.013 | <.018 | <.053 | <.014 |

06329500 YELLOWSTONE RIVER NEAR SIDNEY, MT—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 5 of 11

[Remark codes: <, less than.]

| Date | Cyper- methrin water, fltrd, µg/L (61586) | DCPA, water, fltrd 0.7u GF µg/L (82682) | Desulf- inyl- fipro- nil, water, fltrd, µg/L (62170) | Diazi- non, water, fltrd, µg/L (39572) | Diazi- non-d10 surrog, Sch2003 wat flt percent recovery (99994) | Dicro- tophos, water, fltrd, µg/L (38454) | Diel- drin, water, fltrd, µg/L (39381) | Dimeth- oate, water, fltrd 0.7u GF µg/L (82662) | Disulf- oton sulfone water, fltrd, µg/L (61640) | Disul- foton, water, fltrd 0.7u GF µg/L (82677) | Endo- sulfan sulfate water, fltrd, µg/L (61590) | EPTC, water, fltrd 0.7u GF µg/L (82668) | Ethion monoxon water, fltrd, µg/L (61644) |
|--------------|--|--|---|---|--|--|---|---|---|---|---|--|--|
| Nov 27... | <.046 | <.003 | <.012 | <.005 | 107 | <.08 | <.009 | <.006 | <.01 | <.02 | <.022 | <.002 | <.02 |
| Jan 18... | <.046 | <.003 | <.012 | <.005 | 92.0 | <.08 | <.009 | <.006 | <.01 | <.02 | <.022 | <.002 | <.02 |
| Mar 27... | <.046 | <.003 | <.012 | <.005 | 125 | <.08 | <.009 | <.006 | <.01 | <.02 | <.022 | <.002 | <.02 |
| Apr 09... | <.046 | <.003 | <.012 | <.005 | 116 | <.08 | <.009 | <.006 | <.01 | <.02 | <.022 | <.002 | <.02 |
| May 22... | <.046 | <.003 | <.012 | <.005 | 99.0 | <.08 | <.009 | <.006 | <.01 | <.02 | <.022 | <.004 | <.02 |
| Jun 01... | <.046 | <.003 | <.012 | <.005 | 95.5 | <.08 | <.009 | <.006 | <.01 | <.02 | <.022 | <.002 | <.02 |
| Jul 19... | <.046 | <.003 | <.012 | <.005 | 113 | <.08 | <.009 | <.006 | <.01 | <.02 | <.022 | <.002 | <.02 |
| Aug 14... | <.046 | <.003 | <.012 | <.005 | 106 | <.08 | <.009 | <.006 | <.01 | <.02 | <.022 | <.002 | <.02 |
| Sep 10... | <.046 | <.003 | <.012 | <.005 | 102 | <.08 | <.009 | <.006 | <.01 | <.02 | <.022 | <.002 | <.02 |

06329500 YELLOWSTONE RIVER NEAR SIDNEY, MT—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 6 of 11

[Remark codes: E, estimated.]

| Date | Ethion, water, fltrd, µg/L (82346) | Etho- prop, water, fltrd 0.7u GF µg/L (82672) | Fenami- phos sulfone water, fltrd, µg/L (61645) | Fenami- phos sulf- oxide, water, fltrd, µg/L (61646) | Fenami- phos, water, fltrd, µg/L (61591) | Desulf- inyl- fipro- nil amide, wat flt µg/L (62169) | Fipro- nil sulfide water, fltrd, µg/L (62167) | Fipro- nil sulfone water, fltrd, µg/L (62168) | Fipro- nil, water, fltrd, µg/L (62166) | Fonofos water, fltrd, µg/L (04095) | Hexa- zinone, water, fltrd, µg/L (04025) | Ipro- dione, water, fltrd, µg/L (61593) | Isofen- phos, water, fltrd, µg/L (61594) |
|---------------------|--|---|---|---|---|---|---|---|---|--|---|--|---|
| Nov 27... | <.016 | <.012 | <.053 | <.06 | <.03 | <.029 | <.013 | <.024 | <.016 | <.006 | <.026 | <.026 | <.011 |
| Jan 18... | <.016 | <.012 | <.053 | <.04 | <.03 | <.029 | <.013 | <.024 | <.016 | <.006 | <.026 | <.026 | <.011 |
| Mar 27... | <.016 | <.012 | <.053 | <.04 | <.03 | <.029 | <.013 | <.024 | <.016 | <.006 | <.026 | <.026 | <.011 |
| Apr 09... | <.016 | <.012 | <.053 | <.04 | <.03 | <.029 | <.013 | <.024 | <.016 | <.006 | <.026 | <.026 | <.011 |
| May 22... | <.016 | <.012 | <.053 | <.04 | <.03 | <.029 | <.013 | <.024 | <.016 | <.006 | <.026 | <.026 | <.011 |
| Jun 01... | <.016 | <.012 | <.053 | <.04 | <.03 | <.029 | <.013 | <.024 | <.016 | <.006 | <.026 | <.026 | <.011 |
| Jul 19... | <.016 | <.012 | <.053 | <.04 | <.03 | <.029 | <.013 | <.024 | <.016 | <.006 | <.026 | <.026 | <.011 |
| Aug 14... | <.016 | <.012 | <.053 | <.04 | <.03 | <.029 | <.013 | <.024 | <.016 | <.006 | <.026 | <.026 | <.011 |
| Sep 10... | <.016 | <.012 | <.053 | <.06 | <.03 | <.029 | <.013 | <.024 | <.016 | <.006 | <.026 | <.026 | <.011 |

06329500 YELLOWSTONE RIVER NEAR SIDNEY, MT—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 7 of 11

[Remark codes: <, less than; E, estimated.]

| Date | Mala-oxon, water, fltrd, µg/L (61652) | Mala-thion, water, fltrd, µg/L (39532) | Meta-laxyl, water, fltrd, µg/L (61596) | Methi-althion, water, fltrd, µg/L (61598) | Methyl para-oxon, water, fltrd, µg/L (61664) | Methyl para-thion, water, fltrd, 0.7u GF µg/L (82667) | Metola-chlor, water, fltrd, µg/L (39415) | Metri-buzin, water, fltrd, µg/L (82630) | Moli-nate, water, fltrd, 0.7u GF µg/L (82671) | Myclo-butanil, water, fltrd, µg/L (61599) | Oxy-fluor-fen, water, fltrd, µg/L (61600) | Pendi-meth-alin, water, fltrd, 0.7u GF µg/L (82683) | Phorate oxon, water, fltrd, µg/L (61666) |
|-----------|---------------------------------------|--|--|---|--|---|--|---|---|---|---|---|--|
| Nov 27... | <.039 | <.016 | <.007 | <.009 | <.02 | <.008 | <.010 | <.012 | <.003 | <.033 | <.017 | <.020 | <.03 |
| Jan 18... | <.039 | <.016 | <.007 | <.009 | <.02 | <.008 | <.010 | <.012 | <.003 | <.033 | <.017 | <.020 | <.03 |
| Mar 27... | <.039 | <.016 | <.007 | <.009 | <.02 | <.008 | <.010 | <.012 | <.003 | <.033 | <.017 | <.020 | <.03 |
| Apr 09... | <.039 | <.016 | <.007 | <.009 | <.02 | <.008 | <.010 | <.012 | <.003 | <.033 | <.017 | <.020 | <.03 |
| May 22... | <.039 | <.016 | <.007 | <.009 | <.02 | <.008 | <.010 | <.012 | <.003 | <.033 | <.017 | <.020 | <.03 |
| Jun 01... | <.039 | <.016 | <.007 | <.009 | <.02 | <.008 | <.010 | <.012 | <.003 | <.033 | <.017 | <.020 | <.03 |
| Jul 19... | <.039 | <.016 | <.007 | <.009 | <.02 | <.008 | .014 | <.012 | <.003 | <.033 | <.017 | <.020 | <.03 |
| Aug 14... | <.039 | <.016 | <.007 | <.009 | <.02 | <.008 | E.007 | <.012 | <.003 | <.033 | <.017 | <.020 | <.03 |
| Sep 10... | <.039 | <.016 | <.007 | <.009 | <.02 | <.008 | E.009 | <.012 | <.003 | <.033 | <.017 | <.020 | <.03 |

06329500 YELLOWSTONE RIVER NEAR SIDNEY, MT—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 8 of 11

[Remark codes: <, less than; E, estimated.]

| Date | Phorate water, fltrd 0.7u GF µg/L (82664) | Phosmet oxon, water, fltrd, µg/L (61668) | Phosmet water, fltrd, µg/L (61601) | Prome- ton, water, fltrd, µg/L (04037) | Prome- tryn, water, fltrd, µg/L (04036) | Propy- zamide, water, fltrd 0.7u GF µg/L (82676) | Pro- panil, water, fltrd 0.7u GF µg/L (82679) | Propar- gite, water, fltrd 0.7u GF µg/L (82685) | Sima- zine, water, fltrd, µg/L (04035) | Tebu- thiuron water, fltrd 0.7u GF µg/L (82670) | Teflu- thrin, water, fltrd, µg/L (61606) | Ter- bufos oxon sulfone water, fltrd, µg/L (61674) | Terbu- fos, water, fltrd 0.7u GF µg/L (82675) |
|--------------|--|---|--|---|--|--|---|---|---|---|---|---|---|
| Nov 27... | <.020 | <.05 | <.008 | <.01 | <.006 | <.004 | <.011 | <.02 | <.006 | <.02 | <.003 | <.04 | <.01 |
| Jan 18... | <.020 | <.05 | <.008 | <.01 | <.006 | <.004 | <.011 | <.02 | <.006 | <.02 | <.003 | <.04 | <.01 |
| Mar 27... | <.020 | <.05 | <.008 | <.01 | <.006 | <.004 | <.011 | <.02 | <.006 | <.02 | <.003 | <.04 | <.01 |
| Apr 09... | <.020 | <.05 | <.008 | <.01 | <.006 | <.004 | <.011 | <.02 | <.006 | <.02 | <.003 | <.04 | <.01 |
| May 22... | <.020 | <.05 | <.008 | <.01 | <.006 | <.004 | <.011 | <.02 | <.006 | <.02 | <.003 | <.04 | <.01 |
| Jun 01... | <.020 | <.05 | <.008 | <.01 | <.006 | <.004 | <.011 | <.02 | <.006 | <.02 | <.003 | <.04 | <.01 |
| Jul 19... | <.020 | <.05 | <.008 | <.01 | <.006 | <.004 | <.011 | <.02 | <.006 | <.02 | <.003 | <.04 | <.01 |
| Aug 14... | <.020 | <.05 | <.008 | E.01 | <.006 | <.004 | <.011 | <.02 | <.006 | <.02 | <.003 | <.04 | <.01 |
| Sep 10... | <.020 | <.05 | <.008 | <.01 | <.006 | <.004 | <.011 | <.02 | <.006 | <.02 | <.003 | <.04 | <.01 |

06329500 YELLOWSTONE RIVER NEAR SIDNEY, MT—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 9 of 11

[Remark codes: <, less than.]

| Date | Ter- butyl- azine, water, fltrd, µg/L (04022) | Thio- bencarb water, fltrd 0.7u GF µg/L (82681) | trans- Propi- cona- zole, water, fltrd, µg/L (79847) | Tribu- phos, water, fltrd, µg/L (61610) | Tri- flur- alin, water, fltrd 0.7u GF µg/L (82661) | Di- chlor- vos, water, fltrd, µg/L (38775) |
|------------|---|---|---|--|---|--|
| Nov | | | | | | |
| 27... | <.01 | <.010 | <.03 | <.035 | <.009 | <.01 |
| Jan | | | | | | |
| 18... | <.01 | <.010 | <.03 | <.035 | <.009 | <.01 |
| Mar | | | | | | |
| 27... | <.01 | <.010 | <.03 | <.035 | <.009 | <.01 |
| Apr | | | | | | |
| 09... | <.01 | <.010 | <.03 | <.035 | <.009 | <.01 |
| May | | | | | | |
| 22... | <.01 | <.010 | <.03 | <.035 | <.009 | <.01 |
| Jun | | | | | | |
| 01... | <.01 | <.010 | <.03 | <.035 | <.009 | <.01 |
| Jul | | | | | | |
| 19... | <.01 | <.010 | <.03 | <.035 | <.009 | <.01 |
| Aug | | | | | | |
| 14... | <.01 | <.010 | <.03 | <.035 | <.009 | <.01 |
| Sep | | | | | | |
| 10... | <.01 | <.010 | <.03 | <.035 | <.009 | <.01 |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 10 of 11

[Remark codes: <, less than.]

| Date | Time | Instan- taneous dis- charge, cfs (00061) | Specif- ic conduc- tance, µS/cm unf 25 degC (00095) | Temper- ature, deg C (00010) | Suspd. sedi- ment, sieve diametr percent <.063mm (70331) | Sus- pended sedi- ment concen- tration mg/L (80154) | Sus- pended sedi- ment dis- charge, tons/d (80155) | Bed sedi- ment, dry svd sve dia percent <.063mm (80164) | Bed sedi- ment, dry svd sve dia percent <.125mm (80165) | Bed sedi- ment, dry svd sve dia percent <.25mm (80166) | Bed sedi- ment, dry svd sve dia percent <.5 mm (80167) | Bed sedi- ment, dry svd sve dia percent <1 mm (80168) | Bed sedi- ment, dry svd sve dia percent <2 mm (80169) |
|------------|------|---|--|---------------------------------------|---|--|---|--|--|---|---|--|--|
| Oct | | | | | | | | | | | | | |
| 04... | 1215 | 5,400 | 713 | 12.5 | 98 | 213 | 3,110 | <1 | 5 | 75 | 86 | 86 | 86 |
| May | | | | | | | | | | | | | |
| 02... | 0945 | 9,230 | 711 | 16.0 | 72 | 252 | 6,280 | <1 | 2 | 90 | 100 | -- | -- |
| 30... | 0930 | 16,700 | 465 | 16.5 | 76 | 516 | 23,300 | -- | <1 | 23 | 96 | 99 | 99 |
| Aug | | | | | | | | | | | | | |
| 16... | 1200 | 2,270 | 810 | 21.0 | 91 | 149 | 913 | <1 | 2 | 22 | 42 | 42 | 43 |
| Sep | | | | | | | | | | | | | |
| 12... | 1145 | 3,730 | 803 | 17.5 | 88 | 110 | 1,110 | -- | -- | -- | -- | -- | -- |

06329500 YELLOWSTONE RIVER NEAR SIDNEY, MT—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 11 of 11

[Remark codes: <, less than.]

| Date | Bed sedi- ment, dry svd sve dia percent <4 mm (80170) | Bed sedi- ment, dry svd sve dia percent <8 mm (80171) | Bed sedi- ment, dry svd sve dia percent <16 mm (80172) | Bed sedi- ment, dry svd sve dia percent <32 mm (80173) | Bed sedi- ment, dry svd sve dia percent <64 mm (80174) |
|------------|--|--|---|---|---|
| | Oct | | | | |
| 04... | 86 | 88 | 90 | 100 | -- |
| May | | | | | |
| 02... | -- | -- | -- | -- | -- |
| 30... | 100 | -- | -- | -- | -- |
| Aug | | | | | |
| 16... | 44 | 51 | 59 | 62 | 100 |
| Sep | | | | | |
| 12... | -- | -- | -- | -- | -- |

06329500 YELLOWSTONE RIVER NEAR SIDNEY, MT—Continued

SUSPENDED-SEDIMENT
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

| Day | Mean | Sediment |
|--------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | concentration (mg/L) | discharge (tons/day) |
| | October | | November | | December | | January | | February | | March | |
| 1 | 414 | 6,000 | 97 | 1,550 | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | 242 | 3,530 | 82 | 1,290 | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | 183 | 2,660 | 67 | 1,050 | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | 216 | 3,130 | 53 | 823 | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | 265 | 3,810 | 39 | 597 | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | 230 | 3,270 | 30 | 455 | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 185 | 2,690 | 33 | 507 | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 155 | 2,280 | 42 | 653 | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | 134 | 1,980 | 54 | 856 | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | 117 | 1,750 | 65 | 1,030 | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | 112 | 1,720 | 56 | 880 | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | 112 | 1,750 | 40 | 631 | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | 137 | 2,360 | 48 | 841 | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | 128 | 2,320 | 61 | 1,190 | --- | --- | --- | --- | --- | --- | 1,430 | 33,600 |
| 15 | 96 | 1,700 | 58 | 1,090 | --- | --- | --- | --- | --- | --- | 915 | 21,500 |
| 16 | 76 | 1,340 | 56 | 992 | --- | --- | --- | --- | --- | --- | 830 | 18,600 |
| 17 | 72 | 1,260 | 53 | 914 | --- | --- | --- | --- | --- | --- | 840 | 18,400 |
| 18 | 80 | 1,370 | 51 | 854 | --- | --- | --- | --- | --- | --- | 1,460 | 31,900 |
| 19 | 140 | 2,390 | 49 | 804 | --- | --- | --- | --- | --- | --- | 1,470 | 32,100 |
| 20 | 520 | 9,380 | 46 | 740 | --- | --- | --- | --- | --- | --- | 500 | 9,840 |
| 21 | 442 | 8,650 | 43 | 684 | --- | --- | --- | --- | --- | --- | 310 | 5,660 |
| 22 | 262 | 4,850 | 42 | 672 | --- | --- | --- | --- | --- | --- | 262 | 4,550 |
| 23 | 247 | 4,530 | 40 | 636 | --- | --- | --- | --- | --- | --- | 218 | 3,700 |
| 24 | 288 | 5,350 | 39 | 614 | --- | --- | --- | --- | --- | --- | 183 | 3,140 |
| 25 | 317 | 6,040 | 38 | 594 | --- | --- | --- | --- | --- | --- | 161 | 2,760 |
| 26 | 319 | 5,890 | 34 | 514 | --- | --- | --- | --- | --- | --- | 152 | 2,630 |
| 27 | 295 | 5,180 | 28 | 416 | --- | --- | --- | --- | --- | --- | 129 | 2,220 |
| 28 | 260 | 4,410 | 26 | 281 | --- | --- | --- | --- | --- | --- | 122 | 2,020 |
| 29 | 215 | 3,570 | 25 | 196 | --- | --- | --- | --- | --- | --- | 2,000 | 36,000 |
| 30 | 166 | 2,740 | 24 | 130 | --- | --- | --- | --- | --- | --- | 3,000 | 54,800 |
| 31 | 120 | 1,960 | --- | --- | --- | --- | --- | --- | --- | --- | 940 | 17,600 |
| Total | --- | 109,860 | --- | 22,484 | --- | --- | --- | --- | --- | --- | --- | --- |

06329500 YELLOWSTONE RIVER NEAR SIDNEY, MT—Continued

SUSPENDED-SEDIMENT
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

| Day | Mean concentration (mg/L) | Sediment discharge (tons/ day) |
|--------------|---------------------------------|---|---------------------------------|---|---------------------------------|---|---------------------------------|---|---------------------------------|---|---------------------------------|---|
| | April | | May | | June | | July | | August | | September | |
| 1 | 1,150 | 23,900 | 287 | 7,140 | 1,290 | 65,800 | 141 | 4,110 | 34 | 306 | 85 | 652 |
| 2 | 750 | 16,000 | 284 | 7,150 | 1,230 | 67,400 | 118 | 3,140 | 31 | 293 | 70 | 529 |
| 3 | 590 | 12,800 | 650 | 19,700 | 950 | 51,600 | 131 | 3,330 | 49 | 458 | 65 | 495 |
| 4 | 670 | 15,400 | 1,850 | 77,400 | 875 | 48,900 | 151 | 3,620 | 615 | 6,680 | 60 | 467 |
| 5 | 1,330 | 34,400 | 1,880 | 90,400 | 670 | 36,400 | 114 | 2,410 | 312 | 2,860 | 55 | 425 |
| 6 | 1,200 | 30,600 | 2,580 | 142,000 | 715 | 38,800 | 107 | 2,090 | 186 | 1,550 | 50 | 383 |
| 7 | 850 | 20,200 | 4,270 | 259,000 | 1,020 | 62,500 | 100 | 1,770 | 200 | 1,620 | 45 | 349 |
| 8 | 639 | 14,000 | 4,330 | 256,000 | 5,250 | 482,000 | 100 | 1,680 | 309 | 2,440 | 40 | 321 |
| 9 | 723 | 15,600 | 3,290 | 181,000 | 3,210 | 302,000 | 3,070 | 58,500 | 512 | 3,970 | 50 | 432 |
| 10 | 699 | 14,900 | 2,240 | 114,000 | 4,180 | 453,000 | 2,700 | 45,600 | 460 | 3,270 | 88 | 779 |
| 11 | 737 | 15,400 | 2,020 | 94,900 | 2,200 | 222,000 | 1,850 | 32,100 | 378 | 2,560 | 128 | 1,210 |
| 12 | 716 | 14,600 | 1,770 | 82,200 | 1,650 | 145,000 | 495 | 8,070 | 300 | 2,060 | 110 | 1,100 |
| 13 | 740 | 15,200 | 2,270 | 109,000 | 1,400 | 115,000 | 125 | 1,860 | 229 | 1,540 | 87 | 930 |
| 14 | 808 | 16,900 | 2,380 | 132,000 | 1,230 | 92,700 | 116 | 1,550 | 157 | 1,030 | 76 | 833 |
| 15 | 760 | 16,700 | 3,260 | 200,000 | 1,010 | 71,400 | 104 | 1,270 | 126 | 830 | 72 | 797 |
| 16 | 675 | 14,300 | 2,430 | 157,000 | 840 | 56,200 | 85 | 973 | 136 | 837 | 69 | 764 |
| 17 | 548 | 10,900 | 1,870 | 131,000 | 750 | 48,000 | 56 | 600 | 108 | 636 | 65 | 718 |
| 18 | 545 | 10,600 | 1,500 | 104,000 | 672 | 42,300 | 42 | 415 | 87 | 519 | 57 | 625 |
| 19 | 629 | 12,000 | 1,010 | 63,000 | 512 | 32,300 | 42 | 390 | 86 | 515 | 52 | 574 |
| 20 | 530 | 10,300 | 755 | 44,200 | 604 | 37,500 | 42 | 359 | 86 | 543 | 52 | 571 |
| 21 | 376 | 7,900 | 767 | 44,700 | 494 | 29,900 | 42 | 327 | 80 | 505 | 58 | 640 |
| 22 | 397 | 9,030 | 465 | 26,700 | 410 | 22,500 | 42 | 316 | 64 | 404 | 68 | 760 |
| 23 | 832 | 21,900 | 704 | 41,200 | 420 | 20,500 | 38 | 279 | 55 | 358 | 78 | 880 |
| 24 | 771 | 21,200 | 835 | 53,400 | 338 | 15,500 | 31 | 207 | 75 | 508 | 70 | 807 |
| 25 | 500 | 12,200 | 788 | 53,000 | 345 | 15,300 | 30 | 181 | 110 | 817 | 58 | 675 |
| 26 | 442 | 10,100 | 950 | 58,500 | 295 | 12,500 | 31 | 176 | 144 | 1,060 | 52 | 601 |
| 27 | 565 | 12,500 | 725 | 40,500 | 227 | 9,130 | 31 | 178 | 178 | 1,320 | 50 | 602 |
| 28 | 487 | 10,800 | 825 | 43,200 | 183 | 6,920 | 29 | 161 | 220 | 1,700 | 49 | 634 |
| 29 | 332 | 7,470 | 1,020 | 48,700 | 163 | 5,680 | 23 | 138 | 382 | 3,140 | 48 | 625 |
| 30 | 248 | 5,660 | 540 | 24,300 | 172 | 5,480 | 21 | 133 | 380 | 2,990 | 46 | 609 |
| 31 | --- | --- | 705 | 31,800 | --- | --- | 31 | 254 | 185 | 1,460 | --- | --- |
| Total | --- | 453,460 | --- | 2,737,090 | --- | 2,614,210 | --- | 176,187 | --- | 48,779 | --- | 19,787 |