Water-Data Report 2013

06313500 POWDER RIVER AT SUSSEX, WY

Powder Basin
Upper Powder Subbasin

LOCATION.--Lat 43°41'49.51", long 106°18'22.3" referenced to North American Datum of 1983, in SW ¼ SW ¼ NW ¼ sec.13, T.43 N., R.79 W., Johnson County, WY, Hydrologic Unit 10090202, on left bank 0.4 mi upstream from bridge on State Highway 192, 0.6 mi west of Sussex, and 3.2 mi downstream from Salt Creek.

DRAINAGE AREA.--3,090 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1938 to June 1940, February 1950 to September 1957, October 1977 to September 1984, October 1985 to September 1998, November 2002 to current year.

REVISED RECORDS.--WDR WY-80-1: 1979 (M), 1979.

GAGE.--Water-stage recorder. Elevation of gage is 4,372ft above NGVD of 1929, from topographic map. Prior to June 30, 1940, nonrecording gage about 500 ft downstream from old State Highway 192 at different datum. February 8, 1950 to September 30, 1957, water-stage recorder about 600 ft downstream from State Highway 192 at different datum. October 1977 to April 8, 1983, water-stage recorder 10 ft downstream from State Highway 192 at different datum. April 9, 1983 to October 21, 1987, at site 300 ft upstream from station at same datum. U.S. Geological Survey data collection platform with satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Numerous small reservoirs and diversions for irrigation upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of September 30, 1923, gage height, about 14.7 ft at site about 600 ft downstream from State Highway 192, from information by local resident.

06313500 POWDER RIVER AT SUSSEX, WY—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	22	105	e105	e84	e110	e330	145	143	331	17	68	15
2	18	104	e110	e90	e120	e300	143	146	315	25	53	15
3	19	103	e110	e94	e115	e200	146	133	282	23	46	16
4	20	104	e100	e96	e125	180	144	125	239	41	48	17
5	25	105	e110	e98	e115	154	138	87	220	245	49	16
6	32	107	e115	e100	e115	157	145	105	194	937	31	15
7	43	108	e105	e100	e115	181	150	98	171	421	26	16
8	66	108	e105	e110	e120	168	127	100	158	150	24	16
9	71	e105	e100	e110	e100	164	123	122	151	95	109	16
10	79	e100	e86	e115	e80	149	116	144	146	64	500	16
11	83	e90	e94	e125	e90	156	132	177	121	52	390	15
12	88	e80	e96	e130	e100	153	208	199	117	42	105	15
13	85	e86	e100	e100	e120	159	214	251	107	37	61	16
14	82	e92	e110	e78	e110	160	201	372	89	33	49	17
15	82	e96	e110	e76	e150	166	178	502	84	31	55	29
16	85	e100	e100	e90	e140	163	151	505	70	32	43	35
17	86	e110	e100	e100	e170	156	145	454	61	37	37	50
18	88	e105	e110	e115	e200	143	136	436	120	31	30	39
19	88	e105	e100	e115	e180	134	144	434	69	30	28	32
20	87	e110	e90	e120	e190	120	176	548	55	28	27	34
21	90	e115	e100	e115	e180	123	162	587	45	28	25	32
22	92	e105	e110	e100	e180	125	164	439	40	29	24	31
23	93	e90	e110	e90	e180	122	161	375	49	29	36	29
24	96	e96	e100	e115	e200	121	165	359	55	29	77	27
25	93	e100	e94	e115	e220	127	152	369	55	29	33	28
26	93	e94	e86	e120	e210	134	141	289	47	30	27	34
27	100	e88	e86	e110	e230	146	135	253	34	33	20	94
28	102	e100	e86	e90	e220	148	129	220	32	37	19	298
29	103	e105	e90	e82	---	150	124	217	27	40	17	234
30	105	e105	e94	e82	---	150	134	228	19	78	16	170
31	103	---	e90	e100	---	150	---	287	---	123	15	---
Total	2,319	3,021	3,102	3,165	4,185	4,989	4,529	8,704	3,503	2,856	2,088	1,417
Mean	74.8	101	100	102	149	161	151	281	117	92.1	67.4	47.2
Max	105	115	115	130	230	330	214	587	331	937	500	298
Min	18	80	86	76	80	120	116	87	19	17	15	15
Ac-ft	4,600	5,990	6,150	6,280	8,300	9,900	8,980	17,260	6,950	5,660	4,140	2,810

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2013, BY WATER YEAR (WY)

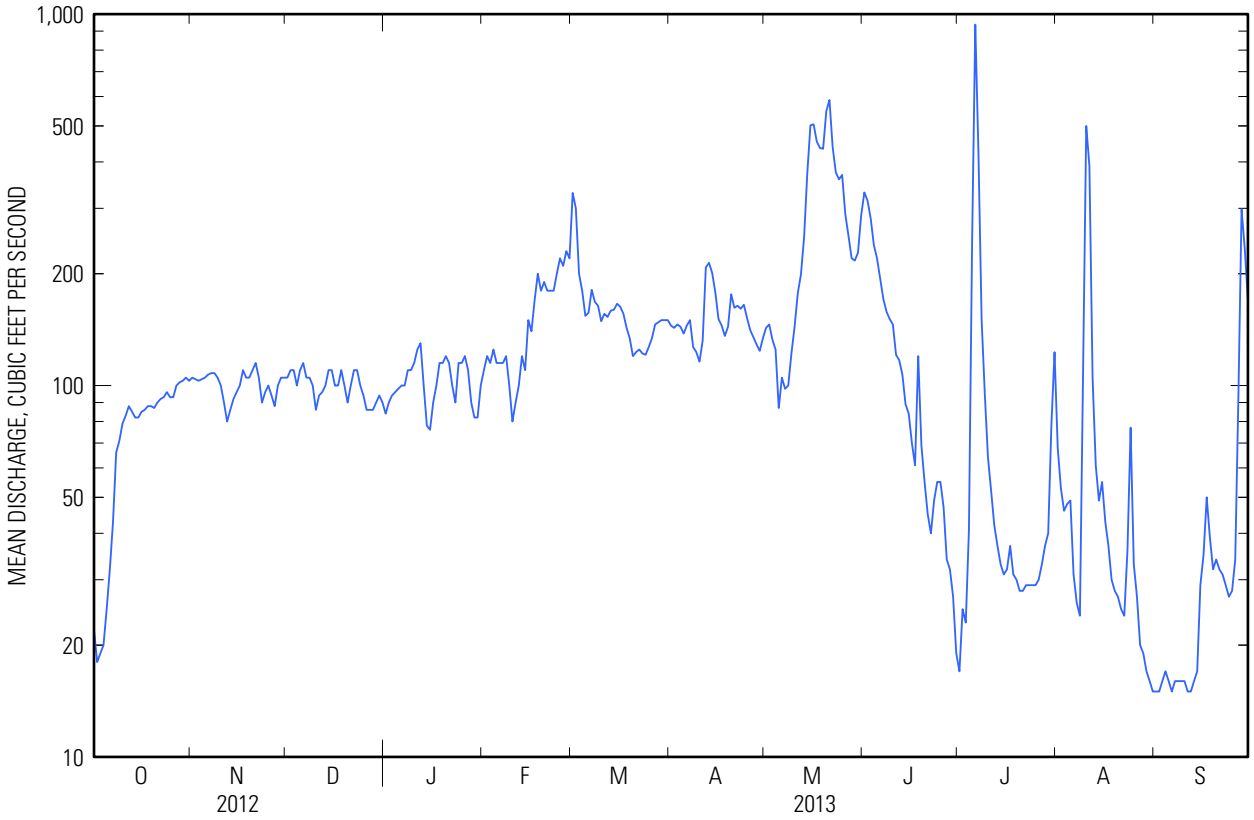
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	130	125	111	112	161	253	264	567	350	121	51.3	63.6
Max	838	202	176	177	335	701	553	2,553	1,477	374	125	448
(WY)	(1995)	(1987)	(1995)	(1983)	(1980)	(1987)	(1987)	(1978)	(1995)	(1978)	(1983)	(1982)
Min	24.2	77.7	77.9	58.6	69.4	110	136	72.0	22.2	13.6	3.54	4.90
(WY)	(1957)	(1953)	(2006)	(1940)	(1939)	(1940)	(1953)	(1992)	(1954)	(2006)	(1939)	(1939)

06313500 POWDER RIVER AT SUSSEX, WY—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1938 - 2013	
Annual total	46,255.6		43,878			
Annual mean	126		120		195	
Highest annual mean					486	1978
Lowest annual mean					86.0	2004
Highest daily mean	1,110	Mar 7	937	Jul 6	14,100	May 23, 1952
Lowest daily mean	6.9	Sep 2	15	Aug 31[a]	1.5	Aug 25, 1939
Annual seven-day minimum	8.0	Aug 27	16	Aug 31	2.6	Aug 23, 1939
Maximum peak flow			1,580	Jul 6	[b]32,500	May 23, 1952
Maximum peak stage			4.32	Jul 6	[c]4,374.76	May 23, 1952
Annual runoff (ac-ft)	91,750		87,030		141,100	
10 percent exceeds	274		215		377	
50 percent exceeds	105		103		121	
90 percent exceeds	14		28		23	

[a] Several days.
[b] Slope-area measurement of peak flow.
[c] Elevation from floodmarks, site and datum then in use, gage height not determined.



06313500 POWDER RIVER AT SUSSEX, WY—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1949-53, 1967-68, 1976 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: January 1983 to September 1984, April 2003 to current year (seasonal).
WATER TEMPERATURE: October 1982 to September 1984, April 2003 to current year (seasonal).
SUSPENDED-SEDIMENT DISCHARGE: May 1983 to September 1984.

INSTRUMENTATION.--Water-quality monitor for specific conductance and water temperature.

REMARKS.--Records for specific conductance are rated excellent except those for October 1-6, 13-18, April 2-10, May 13-22, June 1-3, 19-22, July 10-14, July 24 to August 5, and September 16-19, 28, 29, which are good; those for October 7-11, 19-22, April 11-17, June 4, 5, 23-25, July 15-17, August 6-22, August 24 to September 5, and September 30, which are fair; and those October 23, April 18 -24, June 6-10, and July 18-23, which are poor. Water temperature records are rated excellent. Water-temperature records represent water temperature at sensor within 0.2°C. Maximum and minimum recorded values in the EXTREMES paragraphs may have occurred during days of partial record and may not appear in the daily values tables. Quality of water data were collected and are available at http://waterdata.usgs.gov/usa/nwis/qw

EXTREMES FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 7,980 microsiemens per centimeter at 25°C (µS/cm), August 17, 2003; minimum recorded, 465 µS/cm, April 22, 2010.
WATER TEMPERATURE: Maximum recorded, 34.7°C, July 24, 2005; minimum recorded, -0.1°C, March 29, 2007, November 3, 7-9, 2012.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 6,140 µS/cm, October 1; minimum recorded, 588 µS/cm, May 16.
WATER TEMPERATURE: Maximum recorded, 32.4°C, July 18; minimum recorded, 0.0°C, April 8-10.

06313500 POWDER RIVER AT SUSSEX, WY—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	6,140	5,210	5,630	1,920	1,840	1,880	---	---	---	---	---	---
2	5,440	5,110	5,250	1,890	1,830	1,860	---	---	---	---	---	---
3	5,440	5,130	5,270	1,870	1,840	1,860	---	---	---	---	---	---
4	5,300	4,910	5,170	1,880	1,850	1,870	---	---	---	---	---	---
5	5,440	4,260	5,000	1,910	1,860	1,890	---	---	---	---	---	---
6	4,260	3,690	3,900	1,900	1,880	1,890	---	---	---	---	---	---
7	3,900	2,640	3,480	---	---	---	---	---	---	---	---	---
8	2,800	2,140	2,320	---	---	---	---	---	---	---	---	---
9	2,140	2,020	2,090	---	---	---	---	---	---	---	---	---
10	2,120	1,940	2,030	---	---	---	---	---	---	---	---	---
11	2,080	1,950	2,010	---	---	---	---	---	---	---	---	---
12	1,970	1,820	1,890	---	---	---	---	---	---	---	---	---
13	1,940	1,720	1,830	---	---	---	---	---	---	---	---	---
14	1,990	1,780	1,900	---	---	---	---	---	---	---	---	---
15	1,990	1,790	1,920	---	---	---	---	---	---	---	---	---
16	2,020	1,820	1,930	---	---	---	---	---	---	---	---	---
17	2,040	1,970	2,020	---	---	---	---	---	---	---	---	---
18	2,040	1,940	1,990	---	---	---	---	---	---	---	---	---
19	2,010	1,960	1,990	---	---	---	---	---	---	---	---	---
20	2,120	2,000	2,040	---	---	---	---	---	---	---	---	---
21	2,060	2,000	2,040	---	---	---	---	---	---	---	---	---
22	2,130	2,010	2,070	---	---	---	---	---	---	---	---	---
23	2,120	2,050	2,080	---	---	---	---	---	---	---	---	---
24	2,050	2,000	2,030	---	---	---	---	---	---	---	---	---
25	2,010	1,960	1,980	---	---	---	---	---	---	---	---	---
26	2,060	1,970	2,020	---	---	---	---	---	---	---	---	---
27	1,990	1,870	1,910	---	---	---	---	---	---	---	---	---
28	1,940	1,890	1,910	---	---	---	---	---	---	---	---	---
29	1,940	1,840	1,890	---	---	---	---	---	---	---	---	---
30	1,890	1,830	1,870	---	---	---	---	---	---	---	---	---
31	1,880	1,840	1,870	---	---	---	---	---	---	---	---	---
Month	6,140	1,720	2,620	---	---	---	---	---	---	---	---	---

06313500 POWDER RIVER AT SUSSEX, WY—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	---	---	---	---	---	---	2,090	2,060	2,070	1,910	1,750	1,840
2	---	---	---	---	---	---	2,080	2,050	2,070	1,800	1,750	1,780
3	---	---	---	---	---	---	2,070	2,040	2,060	1,900	1,790	1,850
4	---	---	---	---	---	---	2,060	2,030	2,050	2,160	1,890	2,080
5	---	---	---	---	---	---	2,060	1,960	2,030	2,570	2,160	2,440
6	---	---	---	---	---	---	2,140	1,980	2,040	2,410	2,090	2,170
7	---	---	---	---	---	---	2,150	1,940	2,010	2,330	2,090	2,190
8	---	---	---	---	---	---	2,270	2,050	2,150	2,280	1,980	2,130
9	---	---	---	---	---	---	2,260	1,360	1,640	2,020	1,580	1,760
10	---	---	---	---	---	---	2,150	1,530	1,740	1,740	1,400	1,520
11	---	---	---	---	---	---	2,520	2,030	2,180	1,440	1,290	1,350
12	---	---	---	---	---	---	2,580	1,850	2,120	1,300	1,170	1,210
13	---	---	---	---	---	---	2,300	2,060	2,170	1,180	927	1,040
14	---	---	---	---	---	---	2,400	2,110	2,240	927	706	807
15	---	---	---	---	---	---	2,370	1,960	2,120	706	594	662
16	---	---	---	---	---	---	2,180	1,960	2,070	628	588	607
17	---	---	---	---	---	---	2,180	2,100	2,140	682	611	646
18	---	---	---	---	---	---	2,230	2,090	2,150	837	670	787
19	---	---	---	---	---	---	2,160	2,000	2,080	828	777	800
20	---	---	---	---	---	---	2,760	1,990	2,260	930	775	870
21	---	---	---	---	---	---	2,720	2,240	2,430	808	709	729
22	---	---	---	---	---	---	2,400	1,990	2,180	817	698	762
23	---	---	---	---	---	---	2,180	1,980	2,110	770	751	760
24	---	---	---	---	---	---	2,320	2,100	2,180	807	770	786
25	---	---	---	---	---	---	2,630	2,200	2,360	826	804	813
26	---	---	---	---	---	---	2,360	2,180	2,270	837	807	820
27	---	---	---	---	---	---	2,310	2,130	2,210	872	837	849
28	---	---	---	---	---	---	2,180	2,090	2,140	917	872	892
29	---	---	---	2,090	---	---	2,100	1,970	2,060	953	917	934
30	---	---	---	2,070	2,040	2,060	1,970	1,880	1,910	1,020	952	989
31	---	---	---	2,100	2,040	2,060	---	---	---	1,030	874	1,000
Month	---	---	---	---	---	---	2,760	1,360	2,110	2,570	588	1,220

06313500 POWDER RIVER AT SUSSEX, WY—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	884	828	854	---	---	---	2,240	1,650	1,950	4,200	3,890	4,060
2	920	866	892	---	---	---	2,420	1,780	2,020	4,110	3,920	4,030
3	995	903	953	---	---	---	1,880	1,590	1,780	4,100	3,910	4,030
4	1,030	958	994	---	---	---	1,790	1,480	1,610	4,250	3,930	4,100
5	1,080	1,010	1,040	---	---	---	3,690	1,700	2,310	4,150	3,900	4,030
6	1,160	1,080	1,110	---	---	---	3,830	2,380	2,720	4,120	3,940	4,010
7	1,220	1,160	1,190	---	---	---	2,860	2,420	2,590	4,000	3,710	3,880
8	1,310	1,220	1,260	---	---	---	3,140	2,860	2,980	3,870	3,650	3,740
9	1,400	1,310	1,350	1,780	1,480	1,640	4,320	1,510	2,660	3,760	3,580	3,670
10	1,510	1,400	1,450	2,060	1,780	1,930	3,270	753	1,470	3,770	3,550	3,640
11	---	---	---	2,220	2,050	2,130	1,800	1,120	1,550	3,860	3,750	3,790
12	1,690	---	---	2,320	2,220	2,260	1,800	1,540	1,660	3,790	3,600	3,690
13	1,670	1,560	1,600	2,520	2,320	2,410	1,790	1,700	1,760	3,730	3,450	3,580
14	1,860	1,650	1,740	2,990	2,520	2,750	2,010	1,700	1,870	3,620	3,450	3,510
15	1,850	1,640	1,760	3,260	2,990	3,130	2,990	2,010	2,620	3,920	2,670	3,590
16	2,050	1,810	1,900	3,360	3,100	3,300	3,010	2,720	2,840	2,820	2,240	2,630
17	2,050	1,940	1,980	3,100	2,750	2,870	3,240	2,730	2,990	2,850	2,620	2,760
18	4,640	1,830	3,030	3,380	3,080	3,230	3,170	2,110	2,350	2,740	2,650	2,700
19	1,830	1,710	1,760	3,620	3,380	3,500	2,730	2,080	2,360	2,680	2,460	2,600
20	1,810	1,700	1,750	3,740	3,620	3,670	3,250	2,640	3,030	2,680	2,390	2,490
21	1,870	1,760	1,810	3,910	3,670	3,820	---	---	---	2,460	2,300	2,390
22	1,920	1,850	1,890	4,020	3,870	3,940	---	---	---	2,300	2,200	2,250
23	2,210	1,840	2,000	4,050	3,750	3,970	5,410	3,110	4,080	2,280	2,180	2,200
24	1,920	1,780	1,840	3,960	3,720	3,840	5,520	2,360	3,840	2,530	2,280	2,440
25	1,870	---	---	4,050	3,710	3,940	2,360	2,160	2,200	2,520	2,420	2,470
26	---	---	---	3,780	3,280	3,590	2,630	2,200	2,390	2,430	2,270	2,380
27	---	---	---	3,680	2,380	3,270	2,880	2,630	2,810	3,290	1,820	2,590
28	---	---	---	3,740	2,660	3,140	2,910	2,800	2,870	2,030	1,420	1,720
29	---	---	---	4,550	3,330	3,890	3,050	2,790	2,910	1,560	1,380	1,460
30	---	---	---	5,050	1,910	3,360	3,360	3,010	3,210	1,480	1,380	1,450
31	---	---	---	4,840	1,410	1,960	3,920	3,220	3,660	---	---	---
Month	---	---	---	---	---	---	---	---	---	4,250	1,380	3,060

06313500 POWDER RIVER AT SUSSEX, WY—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	20.6	10.6	15.1	8.7	5.8	7.2	---	---	---	---	---	---
2	21.1	10.2	14.8	9.8	5.3	7.4	---	---	---	---	---	---
3	13.3	5.0	8.8	8.0	3.7	5.9	---	---	---	---	---	---
4	14.4	4.8	8.4	8.1	4.7	6.2	---	---	---	---	---	---
5	9.0	3.1	6.5	7.6	4.1	5.8	---	---	---	---	---	---
6	11.9	2.5	6.2	8.3	4.1	6.2	---	---	---	---	---	---
7	12.4	2.3	6.7	---	4.2	---	---	---	---	---	---	---
8	9.8	5.1	7.3	---	---	---	---	---	---	---	---	---
9	8.8	5.9	7.3	---	---	---	---	---	---	---	---	---
10	12.3	3.9	7.8	---	---	---	---	---	---	---	---	---
11	11.5	7.0	8.8	---	---	---	---	---	---	---	---	---
12	13.3	5.8	9.4	---	---	---	---	---	---	---	---	---
13	13.8	8.8	11.0	---	---	---	---	---	---	---	---	---
14	13.3	7.2	10.2	---	---	---	---	---	---	---	---	---
15	11.0	8.0	9.7	---	---	---	---	---	---	---	---	---
16	11.2	7.3	9.0	---	---	---	---	---	---	---	---	---
17	10.6	6.0	8.2	---	---	---	---	---	---	---	---	---
18	10.0	3.7	6.8	---	---	---	---	---	---	---	---	---
19	9.2	4.2	6.8	---	---	---	---	---	---	---	---	---
20	12.8	6.5	9.5	---	---	---	---	---	---	---	---	---
21	10.3	8.4	9.3	---	---	---	---	---	---	---	---	---
22	10.7	8.3	9.2	---	---	---	---	---	---	---	---	---
23	9.7	8.0	8.8	---	---	---	---	---	---	---	---	---
24	8.2	4.2	6.4	---	---	---	---	---	---	---	---	---
25	4.8	2.0	3.3	---	---	---	---	---	---	---	---	---
26	5.4	1.0	3.2	---	---	---	---	---	---	---	---	---
27	6.8	2.0	4.1	---	---	---	---	---	---	---	---	---
28	7.8	2.8	5.1	---	---	---	---	---	---	---	---	---
29	8.6	5.0	6.5	---	---	---	---	---	---	---	---	---
30	8.4	4.9	6.7	---	---	---	---	---	---	---	---	---
31	9.5	4.7	7.0	---	---	---	---	---	---	---	---	---
Month	21.1	1.0	8.0	---	---	---	---	---	---	---	---	---

06313500 POWDER RIVER AT SUSSEX, WY—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	---	---	---	---	---	---	14.2	5.7	9.9	11.0	5.2	7.8
2	---	---	---	---	---	---	14.8	5.8	10.2	14.9	4.6	9.7
3	---	---	---	---	---	---	14.2	7.1	10.8	17.4	7.0	12.0
4	---	---	---	---	---	---	16.2	7.6	11.9	17.4	9.5	13.2
5	---	---	---	---	---	---	15.6	10.4	12.9	19.5	8.1	13.7
6	---	---	---	---	---	---	14.7	8.4	11.6	21.0	10.0	15.4
7	---	---	---	---	---	---	14.4	9.2	12.0	22.2	11.6	16.6
8	---	---	---	---	---	---	11.9	0.0	5.7	20.2	12.9	16.7
9	---	---	---	---	---	---	0.1	0.0	0.0	20.8	12.7	16.3
10	---	---	---	---	---	---	6.3	0.0	2.4	19.6	12.1	15.9
11	---	---	---	---	---	---	8.5	2.2	5.5	21.2	12.3	16.5
12	---	---	---	---	---	---	9.5	5.0	6.8	21.6	13.4	17.6
13	---	---	---	---	---	---	8.7	5.1	6.9	22.6	15.5	19.2
14	---	---	---	---	---	---	9.5	4.4	6.8	22.4	15.6	19.0
15	---	---	---	---	---	---	6.2	2.9	4.7	19.9	14.8	17.3
16	---	---	---	---	---	---	4.0	1.9	3.0	18.1	14.4	16.4
17	---	---	---	---	---	---	5.4	0.6	2.9	19.2	14.4	16.8
18	---	---	---	---	---	---	10.6	0.6	5.5	18.1	14.4	16.3
19	---	---	---	---	---	---	11.5	3.8	7.9	16.1	12.9	14.5
20	---	---	---	---	---	---	12.7	6.8	9.8	12.9	10.1	11.2
21	---	---	---	---	---	---	12.5	6.8	9.5	14.9	9.0	11.9
22	---	---	---	---	---	---	8.1	3.0	5.5	17.9	11.5	14.4
23	---	---	---	---	---	---	10.6	1.2	5.8	17.2	12.5	14.9
24	---	---	---	---	---	---	10.5	4.1	7.0	20.2	12.8	16.4
25	---	---	---	---	---	---	13.1	4.7	8.6	20.4	13.3	17.1
26	---	---	---	---	---	---	16.7	6.8	11.5	21.5	14.8	18.0
27	---	---	---	---	---	---	18.0	8.9	13.5	21.5	15.6	18.4
28	---	---	---	---	---	---	18.3	11.6	14.7	19.6	13.8	16.9
29	---	---	---	---	---	---	15.2	10.0	12.6	17.2	14.6	15.5
30	---	---	---	12.0	7.5	9.5	11.4	7.5	9.2	14.6	12.8	13.7
31	---	---	---	13.2	5.7	9.3	---	---	---	12.9	11.2	12.0
Month	---	---	---	---	---	---	18.3	0.0	8.2	22.6	4.6	15.2

06313500 POWDER RIVER AT SUSSEX, WY—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	18.5	9.9	13.7	---	---	---	28.6	19.4	23.6	27.8	15.6	21.5
2	21.0	12.8	16.9	---	---	---	29.8	20.4	24.6	27.0	17.2	21.8
3	21.7	14.8	18.1	---	---	---	28.6	20.7	23.7	28.9	18.4	23.4
4	17.5	13.3	15.4	---	---	---	29.0	19.9	24.0	29.1	18.9	23.8
5	21.3	12.6	16.6	25.6	19.8	22.6	29.4	20.2	24.2	27.7	18.9	23.1
6	23.0	14.1	18.6	21.2	11.8	16.4	29.0	18.4	23.3	28.6	18.6	23.5
7	23.8	16.2	19.9	24.6	16.2	19.9	29.4	17.6	23.0	29.3	18.9	23.9
8	23.9	16.5	19.8	27.9	19.3	23.0	27.7	17.7	21.9	26.8	19.2	22.6
9	26.5	16.6	21.4	28.4	19.0	23.5	23.6	17.1	19.7	25.1	18.2	21.2
10	26.6	18.7	22.7	29.5	19.6	24.4	23.0	12.8	17.5	23.2	16.2	19.7
11	26.2	18.4	22.4	28.4	20.2	24.3	18.9	12.9	15.9	24.0	15.4	19.8
12	27.0	17.2	21.8	24.8	19.6	22.2	23.9	16.1	19.7	20.0	15.4	18.2
13	23.9	17.2	20.7	27.5	18.2	22.5	24.7	16.9	20.2	20.6	15.8	18.2
14	25.6	16.5	20.6	29.0	17.8	22.9	24.3	16.5	20.2	23.4	14.4	18.7
15	26.4	14.6	20.4	30.2	19.3	24.5	27.0	16.9	21.7	18.9	16.0	17.6
16	28.3	15.7	21.6	29.6	19.7	24.2	27.4	17.5	22.0	23.4	14.0	18.2
17	29.3	17.3	22.6	31.4	19.0	25.1	27.5	17.5	22.0	21.8	15.4	18.5
18	24.8	18.6	21.1	32.4	21.9	26.6	27.0	18.1	22.4	22.3	15.4	18.3
19	26.1	15.6	20.5	31.6	21.1	25.8	28.3	18.0	23.1	19.6	12.0	15.6
20	26.4	15.2	20.3	31.8	20.0	25.6	24.0	18.4	21.5	19.5	10.5	14.8
21	27.8	14.9	20.5	31.6	20.2	25.2	---	---	---	20.4	10.9	15.5
22	20.9	15.0	17.9	31.0	19.0	24.7	---	---	---	18.9	12.7	15.6
23	26.0	12.1	18.9	30.9	19.1	24.7	27.2	18.5	22.5	18.6	12.9	15.2
24	26.7	16.2	21.5	30.4	19.2	24.5	25.9	19.6	22.4	19.0	10.2	14.3
25	27.8	17.3	22.1	29.3	18.9	23.9	25.3	18.3	21.4	16.1	11.5	13.7
26	---	---	---	31.0	19.1	24.5	25.7	17.6	21.5	14.8	9.9	12.1
27	---	---	---	28.3	19.0	21.9	29.3	18.5	23.5	9.9	6.2	7.6
28	---	---	---	30.6	17.8	23.0	28.3	18.9	23.6	10.0	5.1	7.5
29	---	---	---	28.2	18.8	23.1	29.3	18.6	23.6	12.4	7.6	10.0
30	---	---	---	27.7	18.1	22.2	29.6	18.5	23.6	15.3	9.5	12.2
31	---	---	---	25.4	17.9	21.5	26.8	17.5	21.8	---	---	---
Month	---	---	---	---	---	---	---	---	---	29.3	5.1	17.5