



Water-Data Report 2010

06259000 WIND RIVER BELOW BOYSEN RESERVOIR, WY

Big Horn Basin
Lower Wind Subbasin

LOCATION.--Lat 43°25'30", long 108°10'42" referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.9, T.5 N., R.6 E., Fremont County, WY, Hydrologic Unit 10080005, on right bank 0.6 mi downstream from Boysen Dam and 13 mi north of Shoshoni.

DRAINAGE AREA.--7,701 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1951 to current year.

REVISED RECORDS.--WSP 1709: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,608.58 ft above NGVD of 1929. Bureau of Reclamation data collection platform with satellite telemetry at station.

COOPERATION.--Station operated and data provided by Bureau of Reclamation from April 1998; record computed and reviewed by U.S. Geological Survey.

REMARKS.--Records good. Flow regulated by Boysen Reservoir since October 1951. Natural flow also affected by Bull Lake, Pilot Butte Reservoir, and several small reservoirs, combined capacity, 190,000 acre-ft, and diversions for irrigation upstream from station. Quality of water data were collected and are available at <http://waterdata.usgs.gov/usa/nwis/qw>.

06259000 WIND RIVER BELOW BOYSEN RESERVOIR, WY—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	902	880	899	853	837	711	747	970	5,130	4,000	1,490	1,200
2	902	874	888	862	845	712	746	968	5,390	4,220	1,480	1,170
3	904	876	885	855	844	711	749	1,130	5,370	4,530	1,400	1,140
4	911	874	891	847	844	712	748	1,450	5,360	4,520	1,270	1,070
5	905	877	904	840	845	719	747	1,640	5,370	4,520	1,290	1,070
6	898	875	890	852	844	719	752	2,350	5,400	4,490	1,290	1,060
7	899	885	888	841	846	710	748	2,370	5,460	3,700	1,290	1,080
8	903	886	839	843	856	709	744	2,360	5,670	3,240	1,290	1,080
9	905	889	676	836	853	708	749	2,360	6,080	2,980	1,290	1,080
10	900	899	753	840	847	710	745	2,370	6,590	2,980	1,270	1,030
11	902	897	885	829	851	705	746	2,380	6,910	2,990	1,270	981
12	900	899	889	830	858	706	743	2,370	7,020	2,730	1,310	994
13	900	897	895	832	859	708	750	2,370	7,080	2,760	1,320	975
14	896	899	896	832	858	704	748	2,400	7,020	2,970	1,310	931
15	896	897	893	826	860	708	745	2,700	7,000	2,750	1,310	888
16	892	901	887	826	859	710	744	3,020	6,980	2,180	1,290	881
17	895	903	885	823	858	712	750	3,450	6,980	1,950	1,280	891
18	897	903	882	822	849	704	746	3,590	6,990	1,960	1,280	889
19	901	897	877	807	795	707	784	3,850	7,010	1,960	1,300	887
20	902	898	878	796	771	704	858	4,110	7,000	1,710	1,300	888
21	895	902	881	795	778	701	874	4,100	6,370	1,460	1,290	865
22	897	904	887	803	775	708	920	4,110	5,910	1,460	1,280	781
23	892	903	884	819	780	702	923	4,110	5,790	1,470	1,290	771
24	895	899	879	806	733	698	913	4,110	5,240	1,470	1,290	777
25	885	899	892	810	714	705	921	4,140	4,970	1,460	1,280	778
26	890	900	873	810	715	716	917	4,510	4,940	1,470	1,280	773
27	894	900	859	826	713	726	934	4,980	4,950	1,470	1,280	771
28	891	900	871	832	711	732	992	5,060	4,950	1,480	1,300	766
29	881	891	869	829	---	745	992	5,050	4,730	1,470	1,310	759
30	876	892	863	833	---	3,630	963	5,060	4,270	1,470	1,300	772
31	877	---	866	831	---	1,230	---	5,080	---	1,480	1,210	---
Total	27,783	26,796	27,004	25,686	22,798	25,482	24,438	98,518	177,930	79,300	40,440	27,998
Mean	896	893	871	829	814	822	815	3,178	5,931	2,558	1,305	933
Max	911	904	904	862	860	3,630	992	5,080	7,080	4,530	1,490	1,200
Min	876	874	676	795	711	698	743	968	4,270	1,460	1,210	759
Ac-ft	55,110	53,150	53,560	50,950	45,220	50,540	48,470	195,400	352,900	157,300	80,210	55,530

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,097	1,074	1,069	1,011	978	1,051	1,171	1,491	2,336	2,406	1,462	1,235
Max	2,846	2,086	2,005	2,208	2,202	2,035	2,259	4,314	7,252	8,816	2,789	2,502
(WY)	(1983)	(1959)	(1959)	(1958)	(1958)	(1997)	(1998)	(1999)	(1991)	(1967)	(1997)	(1973)
Min	299	298	301	299	210	213	389	777	980	935	909	703
(WY)	(2003)	(2003)	(1989)	(1989)	(1952)	(1952)	(1952)	(1952)	(1992)	(1992)	(1992)	(2002)

06259000 WIND RIVER BELOW BOYSEN RESERVOIR, WY—Continued

SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1951 - 2010	
Annual total	558,720		604,173			
Annual mean	1,531		1,655		1,357	
Highest annual mean					2,349	1983
Lowest annual mean					603	2003
Highest daily mean	6,430	Jul 5 ^a	7,080	Jun 13	13,200	Jul 7, 1967
Lowest daily mean	676	Dec 9	676	Dec 9	4.7	Apr 3, 1962
Annual seven-day minimum	691	Feb 13	703	Mar 18	106	Oct 12, 1951
Maximum peak flow			7,150	Jun 13	13,500	Jul 7, 1967
Maximum peak stage			9.84	Jun 13	13.35	Jul 7, 1967
Annual runoff (ac-ft)	1,108,000		1,198,000		983,000	
10 percent exceeds	4,010		4,520		2,150	
50 percent exceeds	897		897		1,110	
90 percent exceeds	698		744		511	

^a Also, July 7.

