Water-Data Report 2013

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 mi^2.

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 fair except for estimated daily discharges, which are poor. 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.

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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	658	470	532	492	499	498	502	762	1,160	1,330	1,010	922
2	657	474	534	488	499	503	501	728	1,160	1,340	1,010	931
3	662	478	533	488	501	508	501	694	1,160	1,330	1,010	928
4	640	478	536	490	500	506	496	693	1,160	1,330	1,020	873
5	611	474	533	493	495	503	503	700	1,160	1,330	1,020	869
6	523	472	537	493	492	502	502	702	1,190	1,300	1,010	862
7	498	480	537	487	496	499	504	700	1,200	1,270	1,030	872
8	498	475	536	483	493	502	501	756	1,220	1,260	1,040	877
9	494	475	538	485	499	508	505	844	1,210	1,270	1,030	861
10	502	483	543	484	496	506	501	915	1,210	1,270	1,060	824
11	497	482	540	481	497	511	502	997	1,210	1,280	1,060	794
12	494	479	541	476	494	508	505	1,000	1,210	1,270	1,060	780
13	501	478	537	483	495	508	506	1,040	1,210	1,260	1,050	780
14	498	474	544	484	496	511	625	1,110	1,220	1,260	1,020	783
15	498	475	545	479	491	506	657	1,130	1,230	1,210	1,020	780
16	496	479	e540	477	495	505	610	1,160	1,230	1,170	1,020	762
17	501	475	e560	479	500	505	553	1,210	1,230	1,130	1,010	742
18	495	474	e570	479	493	512	557	1,200	1,250	1,140	1,020	712
19	493	470	552	480	497	513	557	1,200	1,280	1,140	1,030	652
20	496	473	504	474	498	511	556	1,110	1,320	1,140	1,030	640
21	500	474	495	474	498	509	557	1,020	1,320	1,140	1,040	645
22	499	475	500	473	499	514	556	1,050	1,330	1,130	1,030	654
23	e490	474	499	471	496	510	556	1,140	1,330	1,100	1,050	661
24	e495	477	499	469	495	516	556	1,150	1,330	1,090	1,040	639
25	497	e475	492	470	492	511	541	1,160	1,320	1,060	1,040	622
26	481	482	494	475	492	506	539	1,200	1,310	1,020	1,020	612
27	484	476	493	471	501	498	545	1,210	1,300	1,020	978	594
28	481	483	491	469	494	500	628	1,240	1,320	1,020	976	592
29	475	530	496	474	---	492	690	1,240	1,330	1,010	926	594
30	475	527	501	498	---	497	725	1,210	1,320	1,040	917	554
31	473	---	495	497	---	501	---	1,180	---	1,010	930	---
Total	16,062	14,391	16,247	14,916	13,893	15,679	16,537	31,451	37,430	36,670	31,507	22,411
Mean	518	480	524	481	496	506	551	1,015	1,248	1,183	1,016	747
Max	662	530	570	498	501	516	725	1,240	1,330	1,340	1,060	931
Min	473	470	491	469	491	492	496	693	1,160	1,010	917	554
Ac-ft	31,860	28,540	32,230	29,590	27,560	31,100	32,800	62,380	74,240	72,730	62,490	44,450

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,081	1,058	1,054	997	966	1,038	1,163	1,501	2,343	2,404	1,461	1,218
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)

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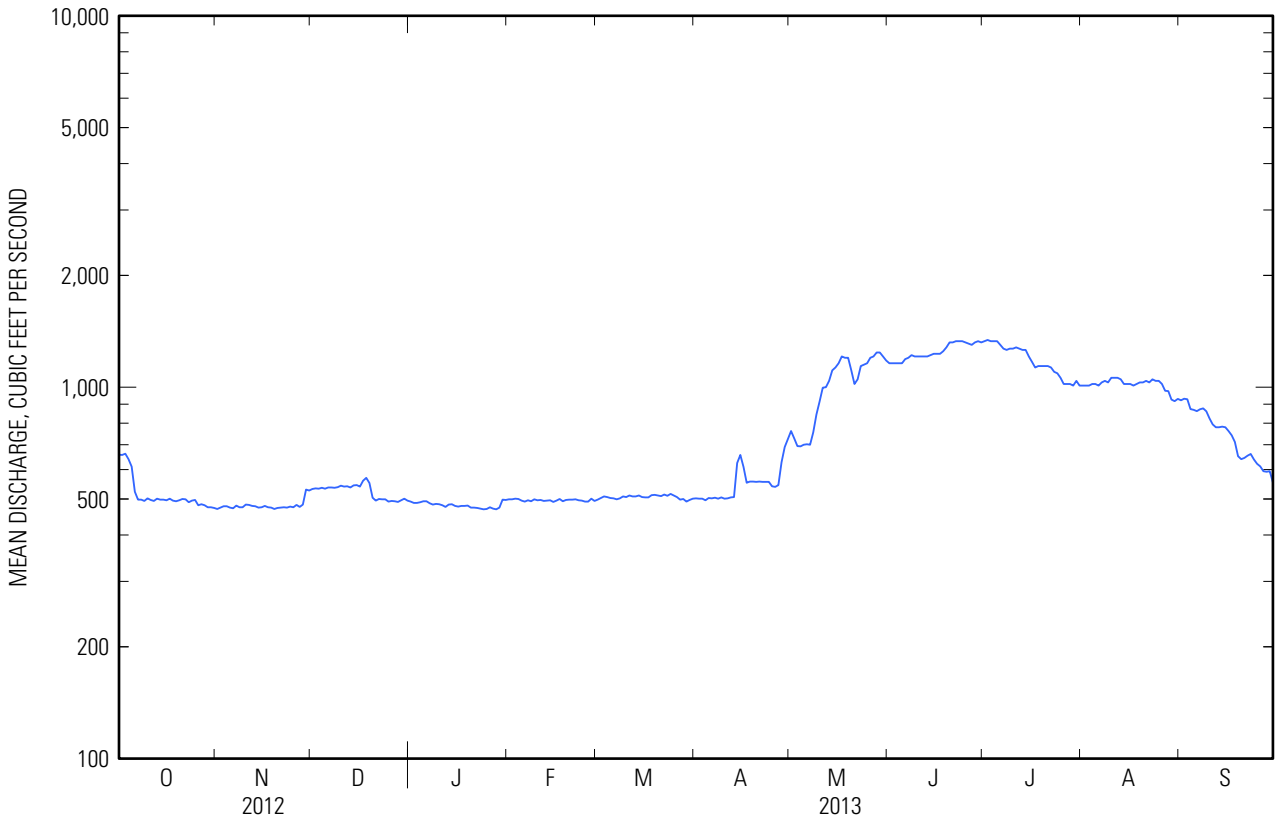
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1951 - 2013	
Annual total	336,178		267,194			
Annual mean	919		732		1,349	
Highest annual mean					2,349	1983
Lowest annual mean					603	2003
Highest daily mean	3,190	Mar 27	1,340	Jul 2	13,200	Jul 7, 1967
Lowest daily mean	470	Nov 1[a]	469	Jan 24[b]	4.7	Apr 3, 1962
Annual seven-day minimum	474	Nov 17	471	Jan 22	106	Oct 12, 1951
Maximum peak flow			1,370	Jun 22	13,500	Jul 7, 1967
Maximum peak stage			4.99	Jun 22	13.35	Jul 7, 1967
Annual runoff (ac-ft)	666,800		530,000		977,500	
10 percent exceeds	1,250		1,210		2,150	
50 percent exceeds	954		540		1,110	
90 percent exceeds	492		479		506	

[a] Also, November 19.
[b] Also, January 28.