Water-Data Report 2012

13075500 PORTNEUF RIVER AT POCATELLO, ID

Upper Snake Basin
Portneuf Subbasin

LOCATION.--Lat 42°52′18″, long 112°28′05″ referenced to North American Datum of 1983, in SE ¼ NW ¼ sec.27, T.6 S., R.34 E., Bannock County, ID, Hydrologic Unit 17040208, Pocatello South quad., on left bank 1,400 ft downstream from Carson Street Bridge at Pocatello, 1.2 mi upstream from Pocatello Creek, and at mile 16.8.

DRAINAGE AREA.--1,256 mi^2, Mean elevation, 5,850 ft.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May to September 1897, March 1898 to October 1899, August 1911 to current year.

REVISED RECORDS.--WSP 1567: Drainage area. WDR-US-2010: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 4,418.41 ft above NGVD of 1929 (U.S. Army Corps of Engineers datum). May 18, 1897 to Oct. 14, 1899, nonrecording gage at site 1.6 mi upstream at different datum. Aug. 31, 1911 to May 13, 1927, and Oct. 13, 1927 to June 13, 1928, nonrecording gage 0.3 mi upstream at different datum. May 14 to Oct. 12, 1927, water-stage recorder near present site at different datum. June 14, 1928 to Sept. 28, 1950, water-stage recorder near Carson Street Bridge, 0.3 mi upstream at same datum as former nonrecording gages at this site. Sept. 29, 1950 to May 20, 1968, water-stage recorder at Fremont Street site, 1.0 mi upstream at datum 18.57 ft higher.

REMARKS.--Records good except for estimated daily discharges which are fair. Station equipment includes satellite telemetry. Flow regulated by Portneuf Reservoir, an earthen dam completed in 1912 and raised 7 ft in 1950; capacity, 23,695 acre-ft (capacity prior to 1950, 16,410 acre-ft); and Chesterfield Reservoir, capacity, 685 acre-ft. Diversions above station for irrigation of about 55,000 acres, of which about 13,000 acres are irrigated by withdrawals from ground water (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,990 ft^3/s Feb. 14, 1962, gage height, 11.35 ft, site and datum then in use; maximum gage height, 14.56 ft, Jan. 21, 1987, backwater from ice; minimum daily discharge, 0.23 ft^3/s July 19, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 807 ft^3/s Jan. 22, gage height 8.06 ft;minimum 21 ft^3/s Aug. 30, gage height, 2.02 ft.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 13075500, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/13075500.2012.pdf

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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	153	252	251	237	238	275	444	379	107	37	37	36
2	149	252	237	235	237	268	441	363	101	35	35	45
3	155	254	242	233	235	270	426	351	91	34	32	47
4	160	263	e240	231	234	269	412	344	84	33	29	46
5	179	273	e210	229	230	345	411	344	87	32	30	47
6	211	271	e160	229	227	416	424	331	96	35	30	48
7	244	264	e185	228	224	365	412	306	89	36	26	50
8	253	265	e230	228	219	301	399	268	86	36	25	46
9	239	258	e215	226	228	329	393	241	85	36	29	45
10	236	251	e210	223	232	360	390	222	85	34	30	47
11	239	253	e200	223	264	382	398	200	80	34	39	47
12	250	268	e220	e200	268	408	445	182	80	39	39	50
13	240	282	e230	e180	272	420	476	173	79	36	37	53
14	232	277	e220	e220	274	392	452	138	74	39	38	54
15	227	267	e220	e240	260	405	425	118	74	49	36	54
16	229	258	e220	e220	256	432	408	101	75	51	38	53
17	251	254	e210	e180	243	437	396	85	65	53	40	50
18	256	280	e205	e200	244	482	397	80	61	56	38	52
19	245	272	e210	e260	243	507	406	79	57	47	35	51
20	235	253	e210	316	239	426	409	74	57	45	37	52
21	263	253	e220	570	243	379	399	72	56	42	36	55
22	246	261	e200	735	404	389	393	69	55	45	36	53
23	238	259	e150	397	712	412	405	70	52	49	33	51
24	231	258	e170	324	536	413	420	71	51	50	32	53
25	234	264	e210	283	438	426	426	77	48	52	30	54
26	236	263	e210	275	364	427	439	89	45	46	33	55
27	242	246	e230	315	307	417	450	120	44	44	32	57
28	242	250	e240	264	302	397	448	140	45	43	29	58
29	246	255	e240	247	293	418	419	135	42	41	27	56
30	248	256	e240	245	---	422	393	121	41	41	26	57
31	249	---	250	241	---	422	---	109	---	41	26	---
Total	7,058	7,832	6,685	8,434	8,466	12,011	12,556	5,452	2,092	1,291	1,020	1,522
Mean	228	261	216	272	292	387	419	176	69.7	41.6	32.9	50.7
Max	263	282	251	735	712	507	476	379	107	56	40	58
Min	149	246	150	180	219	268	390	69	41	32	25	36
Ac-ft	14,000	15,530	13,260	16,730	16,790	23,820	24,900	10,810	4,150	2,560	2,020	3,020

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1897 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	193	251	259	267	308	395	509	509	273	98.3	89.4	123
Max	477	479	493	513	754	1,054	1,251	1,986	1,416	416	324	480
(WY)	(1987)	(1984)	(1984)	(1984)	(1986)	(1986)	(1986)	(1984)	(1984)	(1984)	(1984)	(1986)
Min	66.8	90.5	152	153	155	179	62.9	27.3	26.2	11.0	11.2	25.8
(WY)	(2004)	(1935)	(2004)	(2004)	(2004)	(1934)	(1934)	(1992)	(1992)	(2003)	(1992)	(1992)

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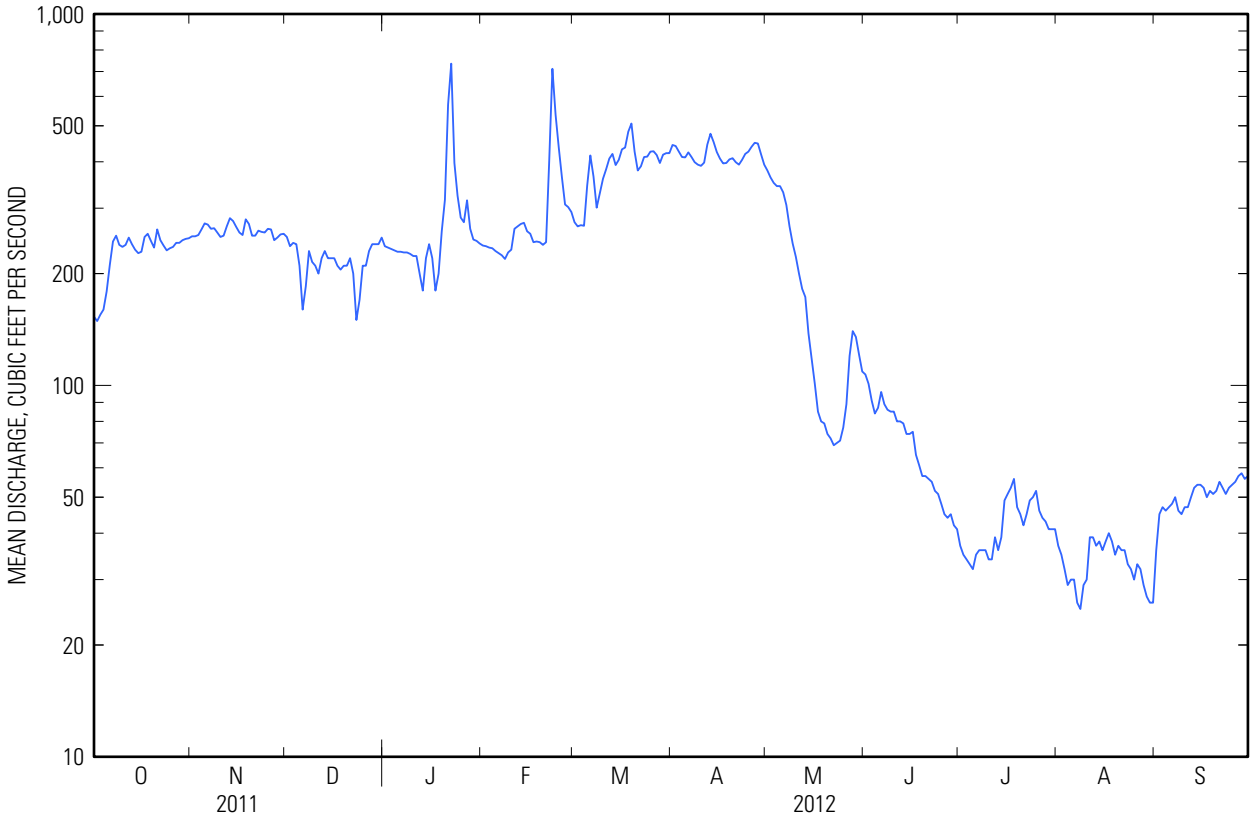
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1897 - 2012	
Annual total	131,918		74,419			
Annual mean	361		203		271	
Highest annual mean					705	1984
Lowest annual mean					118	1934
Highest daily mean	1,180	May 18	735	Jan 22	2,850	May 17, 1984
Lowest daily mean	64	Aug 27	25	Aug 8	0.23	Jul 19, 1979
Annual seven-day minimum	72	Aug 22	28	Aug 4	2.4	Jun 29, 1961
Annual runoff (ac-ft)	261,700		147,600		196,500	
10 percent exceeds	943		411		510	
50 percent exceeds	246		228		231	
90 percent exceeds	103		37		60