

STREAMFLOW RECORDS FOR WATER YEAR 2008

LOCATION.--Lat 42°36'50", long 111°34'58" referenced to North American Datum of 1927, in NW ¼ SW ¼ NW ¼ sec.29, T.9 S., R.42 E., Caribou County, Hydrologic Unit 16010201, on left bank 800 ft upstream from Bailey Creek road bridge and 2 mi south of Soda Springs.

DRAINAGE AREA.--3,970 mi².

PERIOD OF RECORD.--October 2006 to current year published by PacifiCorp Energy. May to September 1896, May, June 1898, and October 1953 to September 2006 published by U.S. Geological Survey in reports. Irrigation season only published in 1944-49, 1951-53 in reports of Bear River Hydrometric Data (Geological Survey open-file report).

GAGE.--Water-stage recorder. Elevation of gage is 5,760 ft above NGVD of 1929, from topographic map. May 25 to October 2, 1896, May 22 to July 1, 1898, staff gage at different datum. During irrigation season 1944-49, 1950-53, water-stage recorder at site 800 ft downstream at different datum.

REMARKS.--Natural flow of stream affected by upstream reservoirs, diversions for irrigation, and return flow from irrigated areas. The cableway was not operable so no high flow discharge measurements were made. Wading discharge measurements at lower flows confirm the validity of the rating curve. An evaluation of the stability of the rating curve at higher flows for the recent years shows a stable cross-section with few rating shift adjustments needed. The flows are estimated for the bulk of the year. Wading discharge measurements were made 10/18/2006, 5/10/2007, 9/20/2007 and 10/11/2007. All flows outside of these periods are estimated. A comparison with the computed inflows to Alexander Reservoir and the upstream Bear River near Pescadero gage operated by the USGS also confirmed the validity of these flows.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--55 years, 681 ft³/s, 493,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,380 ft³/s, Jun 9, 15, 1896, gage height, 8.40 ft, datum then in use; minimum daily discharge, 37 ft³/s, Sep 30, Oct, 1, 2, 2001.

**Bear River at Soda Springs, ID (10075000)
Water Year 2008 (October 2007 to September 2008)
Daily Mean Values**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
1	97	108	134	109	101	92	144	330	684	1090	1030	1100	
2	96	108	132	107	103	94	144	303	715	1110	1100	1050	
3	97	106	127	105	99	98	144	301	660	1160	1260	1000	
4	99	108	129	109	101	102	144	305	627	1170	1300	903	
5	102	121	124	107	99	100	144	304	597	1180	1290	859	
6	110	113	127	109	101	104	144	308	611	1210	1320	854	
7	122	108	129	105	103	108	144	342	605	1250	1410	765	
8	122	107	125	107	101	112	144	340	599	1360	1460	641	
9	118	106	122	105	99	117	144	333	579	1540	1480	631	
10	113	105	125	107	97	121	144	329	584	1560	1470	585	
11	109	106	122	103	99	120	144	319	577	1580	1300	434	
12	107	111	120	103	101	125	159	323	571	1710	1180	434	
13	104	106	122	101	99	129	188	326	553	1780	1240	494	
14	106	105	125	103	101	134	229	335	524	1700	1190	448	
15	104	104	120	105	97	136	291	312	471	1500	1100	440	
16	101	103	122	103	95	141	305	316	425	1370	1060	440	
17	106	105	120	101	97	139	335	317	380	1320	980	443	
18	107	108	118	103	99	141	449	317	481	1400	947	422	
19	108	108	120	101	97	144	582	340	735	1460	942	341	
20	120	105	122	101	95	141	676	369	757	1430	947	337	
21	121	105	120	103	97	146	565	394	798	1380	998	371	
22	110	105	125	105	93	144	486	467	870	1390	1040	373	
23	105	107	122	103	92	139	472	627	801	1290	1080	350	
24	103	111	120	101	90	141	484	625	739	1090	1180	230	
25	100	132	118	103	92	146	466	582	712	1030	1230	198	
26	98	129	116	101	90	144	467	535	686	976	1240	193	
27	98	125	118	103	88	146	416	653	705	898	1190	187	
28	98	128	116	103	90	147	394	700	766	879	1150	187	
29	100	127	114	101	88	148	377	702	859	876	1140	182	
30	107	137	112	101	147	366	667	1020	874	1110	182	182	
31	113		109	103		148		673		953	1110		
	Monthly Statistics												Yearly Stats
Total	3,301	3,357	3,775	3,221	2,804	3,994	9,291	13,094	19,691	39,516	36,474	15,074	153,592
Mean	106	112	122	104	97	129	310	422	656	1,270	1,180	502	418
Min	96	103	109	101	88	92	144	301	380	874	942	182	88
Max	122	137	134	109	103	148	676	702	1,020	1,780	1,480	1,100	1,780
Ins. Min	93	101	93	101	88	92	134	295	364	869	939	181	88
Ins. Max	126	151	134	109	103	148	704	711	1,080	1,800	1,490	1,150	1,800
Ac-ft	6,550	6,660	7,490	6,390	5,560	7,920	18,430	25,970	39,060	78,380	72,350	29,900	304,660