

BEAR RIVER AT SODA SPRINGS, ID (10075000)

STREAMFLOW RECORDS FOR WATER YEAR 2011

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 (as reported by the United States Geological Survey).

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 in reports of Geological Survey. Irrigation season only during 1944-49, 1951-53 in reports of Bear River Hydrometric Data (Geological Survey open-file report). Discharge measurements available beginning in September 23, 1923.

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.--Records poor. Natural flow of stream affected by upstream reservoirs, diversions for irrigation, and return flow from irrigated areas. Record is ice-affected November 13th, 2009 through March 3, 2010 and estimated from Alexander Reservoir computed inflow. No flow measurements made, but discharge compares well to computed Alexander Reservoir inflow and Pescadero gage values.

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.

DISCHARGE MEASUREMENT DATES.-- None.

Bear River at Soda Springs, ID (10075000) Water Year 2011 (October 2010 to September 2011)

Daily Mean Values

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	433	493	181	153	153	146	281	512	887	841	1360	1360
2	433	426	186	151	148	149	388	493	869	825	1430	1340
3	384	235	191	159	153	151	453	481	814	786	1340	1370
4	193	181	192	159	166	149	485	467	791	757	1300	1390
5	142	171	189	159	168	149	522	455	807	714	1280	1410
6	127	166	187	157	165	154	581	462	814	668	1280	1400
7	119	162	187	163	170	150	749	485	816	612	1270	1380
8	121	166	193	163	163	151	729	533	818	801	1260	1350
9	127	170	174	155	153	150	701	611	898	1060	1250	1330
10	130	162	168	153	158	149	692	667	966	1050	1240	1340
11	136	159	172	157	156	153	610	676	939	1050	1260	1360
12	136	154	166	159	155	153	630	659	923	1070	1280	1380
13	137	158	165	169	158	154	731	647	908	1130	1270	1400
14	136	157	164	181	156	152	810	656	914	1180	1250	1410
15	135	156	159	181	157	160	801	701	910	1130	1240	1410
16	135	181	153	181	160	166	832	729	892	1080	1220	1420
17	148	189	155	179	159	180	1060	759	851	1050	1200	1450
18	154	174	165	179	157	218	1280	768	835	1140	1230	1180
19	143	168	170	181	158	236	1320	761	887	1280	1280	785
20	136	190	170	178	161	215	1310	759	912	1320	1280	717
21	133	178	161	171	155	192	1220	743	897	1320	1280	707
22	132	150	162	176	153	190	1070	744	864	1300	1290	731
23	132	172	161	173	157	231	927	756	853	1280	1310	770
24	149	173	159	173	158	191	816	823	863	1270	1330	783
25	227	184	157	176	160	184	751	824	868	1250	1310	795
26	223	173	156	176	155	170	689	813	876	1240	1310	795
27	481	178	163	173	151	187	629	809	877	1230	1310	792
28	528	181	162	170	145	181	590	813	840	1210	1380	789
29	538	185	167	168		180	562	846	788	1200	1410	776
30	529	183	165	176		185	534	852	788	1190	1390	771
31	494		155	171		208		879		1190	1380	

	Monthly Statistics												Yearly Stats
Total	7,171	5,775	5,255	5,220	4,408	5,384	22,753	21,183	25,965	33,224	40,220	33,891	210,449
Mean	231	193	170	168	157	174	758	683	866	1,070	1,300	1,130	575
Min	119	150	153	151	145	146	281	455	788	612	1,200	707	119
Max	538	493	193	181	170	236	1,320	879	966	1,320	1,430	1,450	1,450
Ins. Min	118	105	120	151	125	128	242	452	775	604	1,200	704	105
Ins. Max	541	493	530	688	860	406	1,350	882	989	1,330	1,500	1,460	1,500
Ac-ft	14,220	11,450	10,420	10,350	8,740	10,680	45,130	42,020	51,500	65,900	79,780	67,220	417,410

PacifiCorp Energy

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Rating Table

Gage Height in Feet - Discharge in Cubic Feet Per Second

Gage Height	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
1.5	0	0	0	1.6	0	4	5.2	6.4	7.6	8.8
1.6	10	11	12	14	14.8	13.7	14.8	15.8	16.9	18
1.7	19	20.1	21.2	22.3	23.4	24.6	25.7	26.8	28	29.2
1.8	30.3	31.5	32.7	33.9	35.1	36.4	37.6	38.9	40.2	41.4
1.9	42.7	44.1	45.4	46.7	48.1	49.5	50.9	52.3	53.7	55.1
2.0	56.6	58.1	59.6	61.1	62.6	64.1	65.7	67.3	68.9	70.5
2.1	72.2	73.8	75.5	77.2	78.9	80.7	82.4	84.2	86	87.9
2.2	89.7	91.6	93.5	95.4	97.3	99.3	101	103	105	107
2.3	109	112	114	116	118	120	122	125	127	129
2.4	132	134	136	139	141	144	146	149	151	154
2.5	156	159	162	164	167	170	172	175	178	181
2.6	184	187	189	192	195	198	201	204	208	211
2.7	214	217	220	223	227	230	233	237	240	243
2.8	247	250	254	257	261	265	268	272	275	279
2.9	283	287	291	294	298	302	306	310	314	318
3.0	322	326	330	334	338	343	347	351	355	360
3.1	364	368	373	377	382	386	391	395	400	405
3.2	409	414	419	423	428	433	438	443	447	452
3.3	457	462	467	472	477	483	488	493	498	503
3.4	508	514	519	524	530	535	541	546	552	557
3.5	563	568	574	579	585	591	596	602	608	614
3.6	620	626	631	637	643	649	655	661	667	673
3.7	680	686	692	698	704	711	717	723	730	736
3.8	742	749	755	762	768	775	781	788	794	801
3.9	808	814	821	828	835	841	848	855	862	869
4.0	876	883	890	897	904	911	918	925	932	939
4.1	946	954	961	968	975	983	990	997	1000	1010
4.2	1020	1030	1030	1040	1050	1060	1060	1070	1080	1090
4.3	1090	1100	1110	1120	1130	1130	1140	1150	1160	1160
4.4	1170	1180	1190	1200	1200	1210	1220	1230	1240	1240
4.5	1250	1260	1270	1280	1280	1290	1300	1310	1320	1330
4.6	1330	1340	1350	1360	1370	1380	1380	1390	1400	1410
4.7	1420	1430	1430	1440	1450	1460	1470	1480	1490	1490
4.8	1500	1510	1520	1530	1540	1550	1560	1560	1570	1580
4.9	1590	1600	1610	1620	1630	1640	1640	1650	1660	1670
5.0	1680	1690	1700	1710	1720	1730	1730	1740	1750	1760
5.1	1770	1780	1790	1800	1810	1820	1830	1840	1840	1850
5.2	1860	1870	1880	1890	1900	1910	1920	1930	1940	1950
5.3	1960	1970	1980	1990	2000	2000	2010	2020	2030	2040
5.4	2050	2060	2070	2080	2090	2100	2110	2120	2130	2140

Gage Height	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
5.5	2150	2160	2170	2180	2190	2200	2210	2220	2230	2240
5.6	2250	2260	2270	2280	2290	2300	2310	2320	2330	2340
5.7	2350	2360	2370	2380	2390	2400	2410	2420	2430	2440
5.8	2450	2460	2470	2480	2490	2500	2510	2520	2530	2540
5.9	2550	2560	2570	2580	2590	2600	2610	2630	2640	2650
6.0	2660	2670	2680	2690	2700	2710	2720	2730	2740	2750
6.1	2760	2770	2780	2800	2810	2820	2830	2840	2850	2860
6.2	2870	2880	2890	2900	2920	2930	2940	2950	2960	2970
6.3	2980	2990	3000	3020	3030	3040	3050	3060	3070	3080
6.4	3090	3110	3120	3130	3140	3150	3160	3170	3190	3200
6.5	3210	3220	3230	3240	3260	3270	3280	3290	3300	3310
6.6	3330	3340	3350	3360	3370	3390	3400	3410	3420	3430
6.7	3450	3460	3470	3480	3500	3510	3520	3530	3550	3560
6.8	3570	3580	3600	3610	3620	3630	3650	3660	3670	3680
6.9	3700	3710	3720	3740	3750	3760	3770	3790	3800	3810
7.0	3840	3860	3870	3890	3900	3910	3930	3940	3960	3970
7.1	3990	4000	4020	4030	4040	4060	4070	4090	4100	4120
7.2	4130	4150	4160	4180	4190	4210	4220	4240	4250	4260
7.3	4280	4290	4310	4320	4340	4350	4370	4380	4400	4410
7.4	4430	4440	4460	4470	4480	4500	4510	4530	4540	4560
7.5	4570	4590	4600	4620	4630	4640	4660	4670	4690	4700
7.6	4720	4730	4740	4760	4770	4790	4800	4820	4830	4840
7.7	4860	4870	4890	4900	4910	4930	4940	4950	4970	4980
7.8	5000	5010	5020	5040	5050	5060	5080	5090	5100	5120
7.9	5130	5140	5160	5170	5180	5200	5210	5220	5240	5250
8.0	5260	5280	5290	5300	5310	5330	5340	5350	5370	5380
8.1	5390	5400	5420	5430	5440	5450	5470	5480	5490	5500
8.2	5520	5530	5540	5550	5570	5580	5590	5600	5620	5630
8.3	5640	5650	5670	5680	5690	5700	5720	5730	5740	5750
8.4	5760	5780	5790	5800	5810	5830	5840	5850	5860	5880
8.5	5890	5900	5910	5920	5940	5950	5960	5970	5990	6000
8.6	6010	6020	6040	6050	6060	6070	6090	6100	6110	6130
8.7	6140	6150	6160	6180	6190	6200	6220	6230	6240	6260
8.8	6270	6280	6300	6310	6320	6340	6350	6360	6380	6390
8.9	6410	6420	6430	6450	6460	6480	6490	6510	6520	6530
9.0	6550	6560	6580	6590	6610	6630	6640	6660	6670	6690
9.1	6700	6720	6740	6750	6770	6790	6800	6820	6840	6850
9.2	6870	6890	6910	6920	6940	6960	6980	7000	7020	7030
9.3	7050	7070	7090	7110	7130	7150	7170	7190	7210	7230
9.4	7250	7280	7300	7320	7340	7360	7380	7410	7430	7450
9.5	7480	7500	7520	7550	7570	7600	7620	7650	7670	7700
9.6	7720	7750	7770	7800	7830	7850	7880	7910	7940	7970
9.7	8000	8020	8050	8080	8110	8140	8170	8210	8240	8270
9.8	8300	8330	8370	8400	8430	8470	8500	8530	8570	8610
9.9	8640	8680	8710	8750	8790	8830	8860	8900	8940	8980