

BEAR RIVER AT ALEXANDER, ID (10079500)

STREAMFLOW RECORDS FOR WATER YEAR 2010

LOCATION.--Lat 42°38'42", long 111°41'51" referenced to North American Datum of 1927, in NE ¼ SW ¼ NW ¼ sec.17, T.9 S., R.41 E., Caribou County, ID, Hydrologic Unit 16010202, on right bank 600 ft downstream from Soda hydroelectric plant of Utah Power & Light Co., 0.5 mi southeast of Alexander, and 5 mi downstream from Soda Creek.

DRAINAGE AREA.--4,093 mi².

PERIOD OF RECORD.--October 2006 to current year published by PacifiCorp. March 1911 to September 2006 published by United States Geological Survey. Monthly discharge only for some periods, published in USGS WSP 1314.

GAGE.--Water-stage recorder. Elevation of gage is 5,650 ft above NGVD of 1929, from topographic map.

REMARKS.--Natural flow of stream affected by upstream reservoirs, power development, diversions for irrigation, and return flow from irrigated areas. Discharge measurements were made throughout the season at the dates noted below.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,740 ft³/s, Mar 31, 1911; maximum gage height, 15.95 ft, Dec 11, 1919 (backwater from ice); minimum discharge, 14 ft³/s, Oct 22, 1990.

DISCHARGE MEASUREMENT DATES.-- 8-19-09, 10-7-09, 11-24-09, 1-13-10, 2-23-10, 10-27-10.

Bear River at Alexander, ID (10079500) Water Year 2010 (October 2009 to September 2010) Daily Mean Values

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
1	252	233	211	211	221	220	330	173	486	1260	1100	713	
2	252	238	199	212	221	220	416	171	486	1180	1110	612	
3	247	243	200	212	221	220	458	171	485	1140	1120	596	
4	246	248	200	212	221	220	457	169	540	1130	1060	597	
5	242	252	201	213	221	220	457	244	565	1200	1030	597	
6	238	254	201	214	221	220	456	270	560	1220	1110	597	
7	276	255	201	214	220	220	452	268	554	1360	1140	597	
8	280	253	201	215	220	257	452	313	551	1420	1140	600	
9	260	253	202	215	220	274	452	275	554	1410	1140	603	
10	247	255	202	216	220	275	451	301	543	1520	1130	519	
11	225	231	202	224	220	275	452	332	584	1510	1140	391	
12	218	174	202	230	220	274	453	348	600	1560	1140	350	
13	218	181	203	234	220	275	456	347	682	1750	1190	350	
14	218	192	203	234	219	275	452	347	767	1800	1230	351	
15	270	185	203	232	219	275	452	347	785	1780	1210	338	
16	286	178	203	232	219	274	453	347	781	1540	1190	336	
17	286	177	204	230	220	272	452	348	775	1460	1200	334	
18	284	180	204	230	219	275	661	348	768	1470	1250	308	
19	285	178	205	229	219	275	436	348	650	1460	1290	297	
20	288	179	205	227	218	276	458	348	514	1460	1280	298	
21	289	179	205	226	219	276	468	347	395	1460	1270	299	
22	289	177	209	226	219	276	468	347	357	1340	1210	300	
23	289	178	212	225	219	282	465	644	427	1280	1150	299	
24	253	194	210	223	219	313	465	352	497	1280	1160	311	
25	235	200	211	223	219	328	380	431	509	1290	1160	318	
26	235	201	210	223	220	329	224	481	739	1300	1020	319	
27	235	201	211	221	220	326	166	488	1010	1220	737	320	
28	235	202	211	221	220	329	181	487	1090	1180	787	405	
29	234	202	211	221	220	329	174	487	1190	1190	883	441	
30	234	205	211	221	221	330	173	487	1260	1120	891	442	
31	232		212	221		330		486		1090	896		
	Monthly Statistics												Yearly Stats
Total	7,878	6,278	6,365	6,887	6,154	8,540	12,270	10,852	19,704	42,380	34,364	12,838	174,510
Mean	254	209	205	222	220	275	409	350	657	1,370	1,110	428	475
Min	218	174	199	211	218	220	166	169	357	1,090	737	297	166
Max	289	255	212	234	221	330	661	644	1,260	1,800	1,290	713	1,800
Ins. Min	217	46	197	210	217	220	159	161	338	443	523	292	46
Ins. Max	310	421	416	264	226	334	1,730	1,760	1,280	2,240	1,330	906	2,240
Ac-ft	15,630	12,450	12,620	13,660	12,210	16,940	24,340	21,520	39,080	84,060	68,160	25,460	346,130

PacifiCorp Energy

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Rating Table February 20, 2009

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
-0.5	L Limit	L Limit	L Limit	0	0	0.14	0.3	0.44	0.56	0.66
-0.4	0.76	0.83	0.9	0.97	1.02	1.07	1.11	1.16	1.2	1.24
-0.3	1.29	1.33	1.38	1.43	1.49	1.55	1.61	1.69	1.77	1.85
-0.2	1.95	2.05	2.16	2.28	2.41	2.55	2.7	2.86	3.03	3.21
-0.1	3.4	3.6	3.81	4.04	4.27	4.52	4.78	5.06	5.34	5.65
0.0	5.96	6.29	6.64	7.01	7.39	7.79	8.21	8.65	9.11	9.59
0.1	10.1	10.6	11.2	11.8	12.4	13.0	13.7	14.4	15.2	16.0
0.2	16.8	17.7	18.7	19.7	20.7	21.8	23	24.2	25.5	26.8
0.3	28.3	29.8	31.4	33.1	34.9	36.8	38.8	40.9	43.2	45.5
0.4	48	50.6	53.4	56.3	59.3	62.6	66	69.5	73.3	77.3
0.5	81.4	85.8	90.4	95.3	100	106	111	117	126	133
0.6	140	147	153	159	165	171	176	181	186	190
0.7	194	198	202	205	208	211	213	215	217	218
0.8	220	220	221	225	231	237	243	249	254	260
0.9	265	271	276	281	286	291	296	301	306	310
1.0	314	318	322	326	330	333	336	339	342	344
1.1	347	348	350	352	353	372	390	406	420	432
1.2	442	450	457	463	468	471	474	477	479	481
1.3	482	484	487	489	493	497	502	508	516	526
1.4	536	545	555	565	574	584	593	603	613	622
1.5	632	641	651	660	670	679	689	698	708	717
1.6	727	736	746	755	765	774	783	793	802	812
1.7	821	831	840	849	859	868	877	887	896	906
1.8	915	924	934	943	952	962	971	980	990	999
1.9	1010	1020	1030	1040	1050	1050	1060	1070	1080	1090
2.0	1100	1110	1120	1130	1140	1150	1160	1170	1180	1180
2.1	1190	1200	1210	1220	1230	1240	1250	1260	1270	1280
2.2	1290	1300	1300	1310	1320	1330	1340	1350	1360	1370
2.3	1380	1390	1400	1410	1420	1420	1430	1440	1450	1460
2.4	1470	1480	1490	1500	1510	1520	1530	1540	1550	1550
2.5	1560	1570	1580	1590	1600	1610	1620	1630	1640	1650
2.6	1660	1670	1680	1680	1690	1700	1710	1720	1730	1740
2.7	1750	1760	1770	1780	1790	1800	1810	1820	1830	1830
2.8	1840	1850	1860	1870	1880	1890	1900	1910	1920	1930
2.9	1940	1950	1960	1970	1980	1990	2000	2000	2010	2020
3.0	2030	2040	2050	2060	2070	2080	2090	2100	2110	2120
3.1	2130	2140	2150	2160	2170	2180	2190	2200	2210	2220
3.2	2230	2240	2250	2260	2260	2270	2280	2290	2300	2310
3.3	2320	2330	2340	2350	2360	2370	2380	2390	2400	2410
3.4	2420	2430	2440	2450	2460	2470	2480	2490	2500	2510

Gage Height	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
3.5	2520	2530	2540	2550	2560	2570	2580	2590	2600	2610
3.6	2620	2630	2640	2650	2660	2680	2690	2700	2710	2720
3.7	2730	2740	2750	2760	2770	2780	2790	2800	2810	2820
3.8	2830	2840	2850	2860	2870	2880	2890	2910	2920	2930
3.9	2940	2950	2960	2970	2980	2990	3000	3010	3020	3030
4.0	3050	3060	3070	3080	3090	3100	3110	3120	3130	3140
4.1	3150	3170	3180	3190	3200	3210	3220	3230	3240	3260
4.2	3270	3280	3290	3300	3310	3320	3330	3350	3360	3370
4.3	3380	3390	3400	3410	3430	3440	3450	3460	3470	3480
4.4	3500	3510	3520	3530	3540	3550	3570	3580	3590	3600