

**STREAMFLOW RECORDS FOR WATER YEAR 2007**

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 mi<sup>2</sup>.

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 is available for 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 also confirmed the validity of these flows.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--54 years, 687 ft<sup>3</sup>/s, 497,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,380 ft<sup>3</sup>/s, Jun 9, 15, 1896, gage height, 8.40 ft, datum then in use; minimum daily discharge, 37 ft<sup>3</sup>/s, Sep 30, Oct, 1, 2, 2001.

**Bear River at Soda Springs, ID (10075000)  
Water Year 2007 (October 2006 to September 2007)  
Daily Mean Values**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
1	152	134	141	136	102	132	308	251	614	1540	1130	756	
2	148	134	139	125	106	137	346	259	617	1560	1120	760	
3	158	140	144	116	105	141	345	261	727	1610	1110	764	
4	160	149	141	107	106	147	322	271	772	1610	973	760	
5	159	150	136	108	104	153	304	284	780	1580	921	803	
6	164	146	139	109	107	167	293	288	829	1540	879	765	
7	188	147	144	108	104	178	292	328	919	1540	873	645	
8	182	148	147	108	107	196	284	329	998	1520	861	558	
9	173	173	145	109	107	228	274	303	999	1490	788	528	
10	170	173	140	106	109	247	276	292	937	1460	780	429	
11	189	163	135	105	105	260	271	267	902	1410	791	356	
12	211	164	134	107	102	300	270	254	911	1400	834	336	
13	167	162	133	107	104	430	265	254	899	1370	943	296	
14	156	177	132	109	107	595	233	326	895	1340	942	217	
15	151	175	136	109	109	579	215	349	882	1290	1010	156	
16	151	168	142	108	112	570	210	350	875	1240	1020	168	
17	152	169	142	105	113	601	207	426	871	1180	1020	172	
18	147	170	137	103	113	642	220	450	899	1140	1000	130	
19	149	167	136	103	119	592	224	531	1040	1150	994	93	
20	156	164	140	103	122	545	222	599	1090	1200	990	77	
21	159	159	135	103	120	503	300	651	1150	1160	995	72	
22	154	156	134	103	121	439	272	799	1200	1110	1060	260	
23	154	144	137	104	121	392	255	794	1260	1110	1050	318	
24	151	145	139	105	124	357	253	623	1330	1170	1040	255	
25	154	149	142	107	126	346	241	630	1390	1210	972	239	
26	146	151	144	107	127	340	239	605	1430	1200	953	176	
27	144	149	141	107	128	333	221	592	1450	1160	947	118	
28	149	146	139	107	126	330	215	582	1470	1120	945	105	
29	154	149	136	109		334	219	557	1510	1050	903	100	
30	151	144	138	109		330	232	550	1520	1020	820	102	
31	146		141	102		334		620		1040	746		
<b>Monthly Statistics</b>													<b>Yearly Stats</b>
<b>Total</b>	4,945	4,665	4,309	3,354	3,156	10,878	7,828	13,675	31,166	40,520	29,410	10,514	<b>164,420</b>
<b>Mean</b>	160	156	139	108	113	351	261	441	1,040	1,310	949	350	<b>448</b>
<b>Min</b>	144	134	132	102	102	132	207	251	614	1,020	746	72	<b>72</b>
<b>Max</b>	211	177	147	136	128	642	346	799	1,520	1,610	1,130	803	<b>1,610</b>
<b>Ins. Min</b>	142	120	132	101	101	125	205	239	586	1,010	741	71	<b>71</b>
<b>Ins. Max</b>	220	220	220	136	129	749	372	845	1,530	1,620	1,130	818	<b>1,620</b>
<b>Ac-ft</b>	9,810	9,250	8,550	6,650	6,260	21,580	15,530	27,120	61,820	80,370	58,330	20,850	<b>326,120</b>