



Water Resources Data

Water Year 1999

Prepared by: Water Management Department

IDAHO POWER COMPANY

13140900 Willow Creek near Bellevue, Id

LOCATION.--Lat 43°19'23", long 114°19'25" in NW1/4, NW1/4, SE1/4 sec. 21, T.1S, R.18E, Blaine County, Hydrologic Unit 17040219, on left bank at private road crossing, 0.6 miles upstream from the mouth.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--August to September 1999. Miscellaneous discharge measurements made by Water District 37.

GAGE.--Water-stage recorder. Datum of gage is 4820 feet above mean sea level, by topographic map.

REMARKS.--Records fair. Discharge measurements furnished by Water District 37. Station equipment includes cell phone telemetry.

EXTREMES FOR CURRENT PERIOD.--Maximum daily discharge 67 ft³/s August 5, minimum daily 39 ft³/s September 30.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1998 TO SEP 1999

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												54
2												53
3												53
4												53
5											67	52
6											63	51
7											61	50
8											60	50
9											59	50
10											58	50
11											58	49
12											59	48
13											59	48
14											58	49
15											62	47
16											61	47
17											58	47
18											58	46
19											58	45
20											58	45
21											59	44
22											58	43
23											56	43
24											55	42
25											55	41
26											54	41
27											53	42
28											55	41
29					-----						54	40
30					-----						55	39
31		-----			-----		-----		-----		54	-----
TOTAL											*	1,403
MEAN											58.0	46.8
MAX											67	54
MIN											53	39
AC-FT											*	2,780

* Incomplete Record

IDAHO POWER COMPANY

13152940 LOWER MALAD POWER FLUME NEAR BLISS, ID

LOCATION.--Lat. 42°51'59", Long. 114°54'10", in the SE1/4 SW1/4 of Sec. 27, T.6S, R.13E, Gooding County, Idaho, Hydrologic unit 17040219 on the left bank 0.1 miles upstream from the Lower Malad Power Plant.

PERIOD OF RECORD--June 1985 to October 1999 the record was published by the USGS. July of 1997 to current a record was maintained by IPCO.

GAGE.--Water -stage recorder maintained by USGS until October 1999. Stage/velocity recorder installed by IPCO in July 1997.

REMARKS.--Records fair. Estimated data based on USGS computed flow values.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1299e	1339	1252e	1154e	1141e	1285	1369	1308	1305	1254e	1205e	1320e
2	1282e	1311	1250e	1158e	1117e	1280	1376	1309	1316	1225e	1153e	1312e
3	1291e	783	1282e	1115e	1178e	1315	1349	1327	1312	1221e	1240e	1316e
4	1297e	1185	1238e	1121e	1132e	1349	1310e	1332	1294	1225e	1242e	1326e
5	1297e	1187	1246e	1121e	1106e	1349	1316e	1337	1321	1227e	1254e	1324e
6	1284e	1301	1227e	1128e	1143e	1337	1291e	1337	1321	1274e	1264e	1324e
7	1293e	1328	1176e	1167e	1210e	1372	1244e	1316e	1286	1242e	1236e	1320e
8	1274e	1343	1111	1169e	1210e	1367	1295e	1312e	1305	1179e	1264e	1310e
9	1301e	1346	1115	1169e	1252	1379	1338	1320e	1280	1187e	1270e	1294e
10	1299e	1332	1223e	1171e	1267	587	1347	1306e	1287	1197e	1296e	1288e
11	1314e	1315	1189e	1173e	1253	1295	1308	1304e	1248	1219e	1295e	1298e
12	1318e	1294	1182e	1173e	1236	1244	1372e	1306e	1261	1207e	1295e	1302e
13	1310e	1231	1180e	1173e	1214e	1262	1395e	1298e	1245	1185e	1294e	1316e
14	1343	1172	1182e	1141e	1136e	1338	1271	1310e	1248	1205e	1293e	1314e
15	1332	1152e	1169e	1130e	1097e	1371	1305	1308e	1310	1217e	1292e	1296e
16	1346	1225e	1182e	1173e	1223e	1380	1298	1300e	1272e	1221e	1292e	1292e
17	1340	1261e	1208e	1192	1303e	1370	1301	1306e	1306e	1215e	1290e	1292e
18	1337	1240e	1110e	1169e	1267e	1371	1335e	1306e	1328e	1221e	1288e	1308e
19	1327	1250e	1171e	1149e	1225e	1365	1323e	1260e	1312e	1246e	1205e	1300e
20	1337	1259e	1101e	1229e	1143e	1359	1320e	1272e	1294e	1211e	1270e	1296e
21	1341	1259e	1058e	1301e	1285	1335	1329e	1284e	1286e	1246e	1268e	1284e
22	1344	1254e	1095e	1176e	1265	1328	1331	1276e	1302e	1223e	1290e	1288e
23	1342	1252e	1056e	1176e	1318	1338	1338	1244e	1288e	1163e	1286e	1287
24	200	1291e	1058e	1173e	1361e	1343	1351	1262e	1302e	1187e	1300e	1274
25	1350	1269e	1054e	1108e	1297	1345	1357	1224e	1306e	1171e	1300e	1302
26	1341	1291e	1065e	1134e	1282	1344	1312	1218e	1290e	1197e	1284e	1309
27	1305	1295e	1052e	1069e	1314	1360	1332	1282	1306e	1232e	1274e	1292
28	1338	1265e	1165e	1048e	1324	1364	1349	1303	1302e	1201e	1306e	757
29	1315	1261e	1214e	1088e	----	1279	1350	1300	1282e	1169e	1310e	1261
30	1349	1254e	1244e	1121e	----	1367	1325	1315	1260e	1181e	1199e	1332
31	1344	----	1229e	1134e	----	1372	----	1312	----	1201e	1310e	----

e Estimated

IDAHO POWER COMPANY

13207500 Owyhee River near Nyssa, Or

LOCATION.--Lat 43°47'04", long 117°03'17", in SE^{1/4}, NE^{1/4}, SE^{1/4} Sec. 35, T. 5N, R. 47E, Hydrologic Unit 17050115, 100 feet upstream from Hwy 201 crossing, approximately 7 miles southwest of Nyssa.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--April 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,190 feet above sea level, from topographic map.

DISCHARGE (CFS), WATER YEAR 1999

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	138	135	99	138	158
2	---	---	---	---	---	---	---	166	122	97	143	151
3	---	---	---	---	---	---	---	182	108	95	145	154
4	---	---	---	---	---	---	---	226	116	101	141	157
5	---	---	---	---	---	---	---	327	109	104	142	166
6	---	---	---	---	---	---	---	---	116	101	148	164
7	---	---	---	---	---	---	---	---	144	96	147	166
8	---	---	---	---	---	---	---	---	166	93	144	167
9	---	---	---	---	---	---	---	---	177	96	146	171
10	---	---	---	---	---	---	---	---	168	96	146	180
11	---	---	---	---	---	---	---	---	163	98	145	183
12	---	---	---	---	---	---	---	---	132	103	151	187
13	---	---	---	---	---	---	---	850	112	107	153	185
14	---	---	---	---	---	---	---	794	98	107	141	199
15	---	---	---	---	---	---	130	745	101	105	141	206
16	---	---	---	---	---	---	122	739	104	108	136	201
17	---	---	---	---	---	---	113	726	97	112	128	205
18	---	---	---	---	---	---	---	679	94	114	126	208
19	---	---	---	---	---	---	---	642	99	120	127	208
20	---	---	---	---	---	---	---	602	104	117	129	206
21	---	---	---	---	---	---	---	531	106	130	128	202
22	---	---	---	---	---	---	---	456	104	136	128	197
23	---	---	---	---	---	---	---	396	97	141	127	198
24	---	---	---	---	---	---	---	343	82	138	131	195
25	---	---	---	---	---	---	---	304	79	138	130	194
26	---	---	---	---	---	---	---	214	80	141	134	193
27	---	---	---	---	---	---	---	169	197	77	127	140
28	---	---	---	---	---	---	---	124	169	78	129	146
29	---	---	---	---	---	---	---	116	166	78	132	145
30	---	---	---	---	---	---	---	119	143	72	133	148
31	---	---	---	---	---	---	---	144	---	137	153	---
TOTAL	---	---	---	---	---	---	893	9879	3318	3551	4327	5579
MEAN	---	---	---	---	---	---	127.6	411.6	110.6	114.5	139.6	186.0
MAX	---	---	---	---	---	---	169	850	177	141	153	208
MIN	---	---	---	---	---	---	113	138	72	93	126	151
AC-FT	---	---	---	---	---	---	1771	19590	6581	7043	8582	11070

IDAHO POWER COMPANY

13203000 New York Canal near Boise, ID

LOCATION.--Lat 43°32'23", long 116°05'37", in NW1/4, NW1/4,SW1/4, Sec. 33, T.3N, R.3E, Ada County, Idaho, Hydrologic Unit 17050114, on the right bank 1.4 miles downstream from Diversion Dam, 0.7 miles southeast of Barber Park

PERIOD OF RECORD.--Records maintained by Idaho Power Company since October 1997

GAGE.--Water-stage recorder (maintained by USBR). Datum of gage is 2820 feet above msl, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes telemetry

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2280 cfs May 22-24; no flow for long periods.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1998 TO SEP 1999

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,620	0	0	0	0	909	0	2,170	2,260	2,220	2,240	2,240
2	1,550	0	0	0	0	906	0	2,170	2,250	2,230	2,250	2,240
3	1,510	0	0	0	0	913	0	2,120	2,260	2,230	2,250	2,230
4	1,510	0	0	0	0	921	0	1,990	2,210	2,230	2,250	2,220
5	1,500	0	0	0	0	927	365	1,930	2,120	2,230	2,250	2,220
6	1,500	0	0	0	0	936	807	1,950	2,080	2,220	2,250	2,220
7	1,510	0	0	0	0	939	974	1,890	2,070	2,220	2,240	2,220
8	1,470	0	0	0	0	936	1,080	1,840	2,070	2,230	2,250	2,220
9	1,420	0	0	0	0	936	1,090	1,850	2,130	2,240	2,250	2,220
10	1,440	0	0	0	0	935	1,080	1,850	2,160	2,240	2,240	2,220
11	1,430	0	0	0	0	936	1,080	1,860	2,210	2,240	2,240	2,220
12	1,430	0	0	0	0	935	1,190	1,860	2,210	2,240	2,240	2,220
13	1,400	0	0	0	0	935	1,260	1,860	2,210	2,240	2,240	2,220
14	766	0	0	0	0	935	1,330	1,860	2,240	2,240	2,240	2,220
15	752	0	0	0	0	935	1,480	1,860	2,260	2,240	2,240	2,210
16	721	0	0	0	0	936	1,570	1,860	2,260	2,230	2,240	2,210
17	720	0	0	0	0	934	1,590	1,990	2,250	2,230	2,240	2,150
18	719	0	0	0	0	351	1,590	2,080	2,250	2,240	2,240	2,110
19	238	0	0	0	0	0	1,740	2,120	2,250	2,240	2,250	2,110
20	0	0	0	0	0	0	1,940	2,180	2,250	2,230	2,250	2,110
21	0	0	0	0	0	0	2,050	2,260	2,250	2,240	2,250	2,100
22	0	0	0	0	286	0	2,130	2,280	2,250	2,240	2,250	2,100
23	0	0	0	0	845	0	2,180	2,280	2,250	2,230	2,250	2,090
24	0	0	0	0	943	0	2,190	2,280	2,250	2,230	2,240	2,050
25	0	0	0	0	912	0	2,190	2,270	2,230	2,240	2,230	2,030
26	0	0	0	0	910	0	2,200	2,270	2,230	2,230	2,230	2,030
27	0	0	0	0	909	0	2,190	2,260	2,230	2,240	2,230	2,030
28	0	0	0	0	908	0	2,210	2,260	2,220	2,240	2,240	1,980
29	0	0	0	0	-----	0	2,190	2,260	2,210	2,240	2,240	1,850
30	0	0	0	0	-----	0	2,180	2,270	2,210	2,240	2,250	1,800
31	0	-----	0	0	-----	0	-----	2,260	-----	2,240	2,240	-----
TOTAL	23,206	0	0	0	5,713	16,155	41,876	64,240	66,330	69,270	69,540	64,090
MEAN	749	0	0	0	204	521	1,396	2,072	2,211	2,235	2,243	2,136
MAX	1,620	0	0	0	943	939	2,210	2,280	2,260	2,240	2,250	2,240
MIN	0	0	0	0	0	0	0	1,840	2,070	2,220	2,230	1,800
AC-FT	46,030	0	0	0	11,330	32,040	83,060	127,400	131,600	137,400	137,900	127,100
CAL YEAR 1998 TOTAL		367,171	MEAN	1,006	MAX	2,290	MIN	0	AC-FT	728,300		
WTR YEAR 1999 TOTAL		420,420	MEAN	1,152	MAX	2,280	MIN	0	AC-FT	833,900		

IDAHO POWER COMPANY

13210050 Boise River near Middleton, ID

LOCATION.--Lat. 43°40'59", long. 116°34'12", in NW1/4, SW1/4, Sec. 15, T.4N, R.2W, Canyon County, Idaho, hydrologic unit 17050114 on the left bank 3 miles southeast of Middleton and at mile 29.3.

PERIOD OF RECORD.--Previous site 0.2 miles downstream on the right bank maintained by USGS from 1974 to 1997. Current site established by Idaho Power Co. March 5, 1998.

GAGE.--Water-stage recorder. Station equipment includes satellite telemetry.

REMARKS.--No estimated daily discharges. Records good. Natural flow of river is affected by regulation of Lucky Peak reservoir and other upstream reservoirs. Diversions and return flows above the station for irrigation. Only discharges below 800 cfs are published in this report.

EXTREMES FOR CURRENT YEAR.--Minimum discharge, 178 ft³/s February 3, gage-height 2.18 ft, result of freezeup; minimum daily, 238 ft³/s January 13.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1998 TO SEP 1999

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	435	347	418	286	254	r	r	r	r	r	591	574
2	431	337	365	264	264	r	r	r	r	r	619	548
3	442	326	373	256	257	r	r	r	r	736	628	561
4	435	333	367	256	263	r	r	r	r	725	632	535
5	425	335	339	249	249	r	r	r	r	723	645	548
6	403	351	345	260	250	r	r	r	r	715	647	548
7	460	340	353	259	286	r	r	r	r	646	661	534
8	474	347	345	242	311	r	r	r	r	670	672	524
9	506	348	343	245	300	r	r	r	r	727	723	494
10	553	340	351	241	302	r	r	r	r	719	692	488
11	388	338	342	244	275	r	r	r	r	695	757	457
12	353	336	327	242	265	r	r	r	r	737	745	462
13	420	333	333	238	262	r	r	r	r	764	722	474
14	430	339	336	243	264	r	r	r	r	745	725	453
15	439	339	331	286	268	r	r	r	r	748	718	496
16	361	337	333	279	260	r	r	r	r	757	710	507
17	333	332	334	256	r	r	r	r	r	704	704	493
18	328	338	341	261	r	r	r	r	r	675	697	468
19	343	330	289	264	r	r	r	r	r	683	681	469
20	570	328	272	264	r	r	r	r	r	714	673	489
21	449	360	290	297	r	r	r	r	r	724	655	518
22	387	359	307	296	r	r	r	r	r	724	662	492
23	370	341	297	312	r	r	r	r	r	712	669	452
24	323	334	300	305	r	r	r	r	r	715	611	416
25	305	332	260	272	r	r	r	r	r	730	545	411
26	293	327	260	269	r	r	r	r	r	719	554	416
27	293	323	275	266	r	r	r	r	r	685	545	438
28	291	327	306	264	r	r	r	r	r	662	506	447
29	294	356	342	270	-----	r	r	r	r	632	520	419
30	292	346	310	258	-----	r	r	r	r	623	525	397
31	338	-----	271	255	-----	r	-----	r	-----	599	572	-----
TOTAL	12,164	10,159	10,055	8,199							20,006	14,528
MEAN	392	339	324	264							645	484
MAX	570	360	418	312							757	574
MIN	291	323	260	238							506	397
AC-FT	24,130	20,150	19,940	16,260							39,680	28,820

r Out of range of rating table

IDAHO POWER COMPANY

13213000 Boise River near Parma, ID

LOCATION.--Lat 43°46'54", long 116°58'17", in SE 1/4, NE 1/4, SE 1/4, sec. 7, T.5N, R.5W, Canyon County, Hydrologic Unit 17050114, on left bank, at county road crossing 1.2 miles west of Parma, and at mile 3.8.

DRAINAGE AREA.--3970 mi² approximately.

PERIOD OF RECORD.--USGS maintained records September 1971 to September 1997. IPCO maintains records October 1997 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,196.49 ft above msl.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry

EXTREMES FOR CURRENT YEAR.--Maximum discharge 8,170 ft³/s, March 22, gage height, 13.51 ft; minimum 751 ft³/s, December 22. Gage height, 8.03 ft.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1998 TO SEP 1999

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,290	947	918	865	827	5,410	7,610	2,290	1,580	1,490	1,130	1,270
2	1,320	941	896	831	836	5,410	7,560	2,360	1,700	1,320	1,150	1,260
3	1,310	932	932	820	842	5,290	7,520	2,740	1,890	1,280	1,140	1,250
4	1,300	929	919	814	847	5,640	7,500	2,920	2,500	1,330	1,160	1,250
5	1,290	940	875	809	832	6,110	7,450	2,900	2,760	1,350	1,220	1,310
6	1,280	958	883	815	857	6,590	7,290	2,840	2,830	1,300	1,230	1,320
7	1,320	940	880	820	911	7,170	7,090	2,560	2,840	1,150	1,250	1,260
8	1,320	954	879	811	974	7,470	6,880	2,590	2,720	1,070	1,260	1,260
9	1,300	955	872	802	970	7,530	6,760	2,560	2,610	1,130	1,280	1,280
10	1,270	936	871	805	991	7,550	6,750	2,560	2,900	1,190	1,300	1,270
11	1,080	930	874	801	922	7,600	6,720	2,220	3,200	1,190	1,330	1,260
12	947	920	864	810	892	7,570	6,330	2,110	3,250	1,170	1,500	1,250
13	962	913	863	799	882	7,550	6,340	2,030	3,220	1,130	1,470	1,290
14	961	914	865	793	889	7,620	6,210	1,990	3,270	1,110	1,480	1,270
15	979	912	854	839	883	7,610	6,000	1,980	3,140	1,140	1,510	1,290
16	892	904	852	844	872	7,650	5,450	1,990	3,050	1,240	1,530	1,290
17	832	908	852	841	1,060	7,600	5,020	1,960	3,120	1,240	1,420	1,300
18	802	904	860	843	1,720	7,610	4,730	1,840	3,040	1,180	1,350	1,310
19	795	892	841	859	2,270	7,710	4,660	1,730	2,980	1,260	1,310	1,310
20	957	889	813	858	2,780	7,860	4,430	1,620	2,990	1,270	1,260	1,350
21	1,030	939	790	916	3,310	7,890	3,910	1,600	3,050	1,290	1,250	1,340
22	957	933	798	898	3,970	7,940	3,530	1,510	3,090	1,260	1,240	1,320
23	967	904	787	935	4,110	7,920	3,420	1,480	3,060	1,240	1,300	1,310
24	964	893	790	933	4,410	7,870	3,310	1,440	3,080	1,230	1,300	1,300
25	941	892	810	876	5,000	7,790	3,190	1,310	3,100	1,240	1,210	1,290
26	932	886	811	872	5,260	7,770	3,230	1,300	2,790	1,300	1,140	1,290
27	920	879	822	857	5,240	7,710	3,130	1,280	2,740	1,210	1,210	1,360
28	926	887	875	848	5,230	7,670	2,890	1,320	2,760	1,140	1,150	1,390
29	923	917	972	849	-----	7,630	2,640	1,390	2,340	1,060	1,160	1,370
30	926	889	922	837	-----	7,520	2,340	1,470	1,830	1,110	1,220	1,310
31	943	-----	863	829	-----	7,590	-----	1,560	-----	1,100	1,250	-----
TOTAL	32,636	27,537	26,703	26,129	58,587	225,850	159,890	61,450	83,430	37,720	39,710	38,930
MEAN	1,053	918	861	843	2,092	7,285	5,330	2,014	2,781	1,217	1,281	1,298
MAX	1,320	958	972	935	5,260	7,940	7,610	2,920	3,270	1,490	1,530	1,390
MIN	795	879	787	793	827	5,290	2,340	1,280	1,580	1,060	1,130	1,250
AC-FT	64,730	54,620	52,970	51,830	116,200	448,000	317,100	115,900	165,500	74,820	78,760	77,220
CAL YEAR 1998 TOTAL	760,949		MEAN	2,085	MAX	10,000	MIN	787	AC-FT	1,509,000		
WTR YEAR 1999 TOTAL	815,542		MEAN	2,247	MAX	7,940	MIN	787	AC-FT	1,618,000		

IDAHO POWER COMPANY

13235000 Malheur River at Ontario, Or

LOCATION.--Lat 42°02'45", long 116°59'29", in NW^{1/4}, SE^{1/4}, Sec. 32, T. 17S, R. 47E, Hydrologic Unit 17050115, .25 miles north of the Ontario city waste treatment plant and 1.5 miles northwest of Ontario.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--April 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,150 ft. above mean sea level, from topographic map.

DISCHARGE (CFS), WATER YEAR 1999

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	2,180	888	241	238	---
2	---	---	---	---	---	---	---	1,730	835	247	262	---
3	---	---	---	---	---	---	---	1,850	829	272	263	---
4	---	---	---	---	---	---	---	1,180	911	302	289	---
5	---	---	---	---	---	---	---	1,930	768	327	288	---
6	---	---	---	---	---	---	---	1,980	738	325	314	---
7	---	---	---	---	---	---	---	1,860	687	316	328	---
8	---	---	---	---	---	---	---	1,540	674	283	---	---
9	---	---	---	---	---	---	---	1,420	623	275	---	---
10	---	---	---	---	---	---	---	1,460	555	268	---	---
11	---	---	---	---	---	---	---	1,260	478	261	---	---
12	---	---	---	---	---	---	---	712	422	274	---	---
13	---	---	---	---	---	---	---	643	398	250	---	---
14	---	---	---	---	---	---	---	658	407	241	---	---
15	---	---	---	---	---	---	2,890	679	345	243	---	---
16	---	---	---	---	---	---	3,080	654	338	257	---	---
17	---	---	---	---	---	---	2,950	619	336	276	---	---
18	---	---	---	---	---	---	2,940	575	318	275	---	---
19	---	---	---	---	---	---	3,120	546	294	303	---	---
20	---	---	---	---	---	---	3,830	500	289	293	---	---
21	---	---	---	---	---	---	4,700	470	335	300	---	433
22	---	---	---	---	---	---	---	433	344	298	---	420
23	---	---	---	---	---	---	---	418	323	283	---	406
24	---	---	---	---	---	---	4,830	427	307	281	---	379
25	---	---	---	---	---	---	3,890	410	305	289	---	369
26	---	---	---	---	---	---	3,670	458	295	299	---	381
27	---	---	---	---	---	---	3,610	631	326	272	---	401
28	---	---	---	---	---	---	4,020	841	361	242	---	396
29	---	---	---	---	---	---	3,900	918	338	246	---	429
30	---	---	---	---	---	---	3,340	924	309	243	---	436
31	---	---	---	---	---	---	---	891	---	232	---	---
TOTAL	---	---	---	---	---	---	---	30,797	14,376	8,514	---	---
MEAN	---	---	---	---	---	---	3,354	994	479	275	283	405
MAX	---	---	---	---	---	---	4,830	2,180	911	327	328	436
MIN	---	---	---	---	---	---	2,890	410	289	232	238	369
AC-FT	---	---	---	---	---	---	---	61,080	28,510	16,890	---	---

IDAHO POWER COMPANY

13249195 Squaw Creek at Sweet, Id

LOCATION.--Lat 43°57'59", long 116°19'51", in SW1/4 SW1/4 sec. 3, T.7N., R.1E., Gem County, Hydrologic Unit 17050122, 0.4 mile south of Sweet at mile 3.8.

DRAINAGE AREA.--305 mi², approximately.

PERIOD OF RECORD.--November 1997 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,510 feet above mean sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry. Station number formerly listed as 13247505.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,340 ft³/s May 29; minimum daily, 12 ft³/s Aug. 28.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1998 TO SEP 1999

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	24	96	140e	86	515	370e	759	914	408	49	16
2	36	26	124	130e	84	520e	380e	929	1,130	371	43	18
3	41	24	460	130e	70e	570e	370e	1,040	1,040	320	38	21
4	41	24	249	140e	86e	480e	350e	892	1,010	306	38	24
5	39	26	145	132	70e	550e	340e	709	1,020	272	39	29
6	35	32	128	122	149	580e	400e	617	886	277	35	33
7	33	33	90e	118	343	520e	406	617	786	282	37	31
8	34	33	108	107	179	490e	470	625	686	270	36	31
9	34	33	85	101	305	510e	471	582	599	229	33	36
10	34	29	60	100	240e	480e	422	535	549	209	29	34
11	34	34	89	107	210e	420e	390	506	560	199	32	34
12	36	40	95	98	201	390e	470e	497	608	188	40	30
13	35	38	92	94	206	410e	500e	500	677	173	39	32
14	39	39	96	102	179	420e	500e	473	740	155	42	33
15	40	44	88	778	148	430e	520e	455	799	143	39	30
16	38	46	76	657	169	400e	560e	436	974	128	35	29
17	38	47	65e	660e	325	350e	680e	428	807	111	31	30
18	38	59	60e	704	214	370e	790e	437e	844	105	27	30
19	37	53	51	720e	291	410e	780e	556e	864	97	29	32
20	38	45	40e	765	298	420e	740e	609	740	90	27	32
21	37	69	34e	705	309	420e	800e	741	731	84	25	29
22	37	133	37e	420	233	430e	844	859	597	75	23	29
23	38	105	44	684	441	450e	771	936	593	69	23	29
24	38	78	52	399	795	460e	861	1,130	577	63	24	29
25	37	90	54	279	727	470e	878	1,270	612	61	21	25
26	35	86	50	210e	457	500e	950	1,320	509	57	16	22
27	27	68	49	160e	361	400e	882	1,160	450	48	14	19
28	24	68	91	90e	517	350e	792	1,090	438	40	12	20
29	26	107	194	110e	-----	410e	703	1,340	409	35	15	22
30	25	92	183	123	-----	370e	654	1,210	412	33	14	25
31	25	-----	143	133	-----	340e	-----	896	-----	38	17	-----
TOTAL	1,085	1,625	3,228	9,218	7,693	13,835	18,044	24,154	21,561	4,936	922	834
MEAN	35.0	54.2	104	297	275	446	601	779	719	159	29.7	27.8
MAX	41	133	460	778	795	580	950	1,340	1,130	408	49	36
MIN	24	24	34	90	70	340	340	428	409	33	12	16
AC-FT	2,150	3,220	6,400	18,280	15,260	27,440	35,790	47,910	42,770	9,790	1,830	1,650
CAL YEAR 1998 TOTAL*		5,938	MEAN	64.5	MAX	460	MIN	24	AC-FT	11,780		
WTR YEAR 1999 TOTAL		107,135	MEAN	294	MAX	1,340	MIN	12	AC-FT	212,500		

* Incomplete Record
e Estimated

IDAHO POWER COMPANY

13288200 Eagle Creek above Skull Creek near New Bridge, OR

LOCATION.--Lat. 44°52'50", long. 117°15'10", in SE1/4 Sec. 7, T. 8S., R. 45E., Baker County, Hydrologic Unit 17050203, Wallowa-Whitman National Forest, on left bank 0.5 mile upstream from Skull Creek and 6.5 miles northwest of New Bridge and at mile 10.5.

DRAINAGE AREA.--156 mi².

PERIOD OF RECORD.--USGS Oregon operated station from October 1957 to December 1997. Station Operated by Idaho Power Company January 1998 to current year.

GAGE.--Water-stage recorder.

REMARKS.--Records fair except estimated daily discharges which are poor. An irrigation diversion upstream on West Fork Eagle Creek and a diversion from Crater Lake into Eagle Creek for irrigation supplement.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,970 ft³/s, May 25; minimum daily, 60 ft³/s December 21.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1998 TO SEP 1999

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	82e	200e	272	96	167	221	768	1,750	880e	310e	150e
2	78e	78e	220e	216	106	170	220	722	1,870	840e	300e	140e
3	82e	76e	270e	193	106	163	223	662	1,500	800e	290e	140e
4	84e	74e	270e	189	95	153	217	580	1,310	720e	283	130e
5	82e	75e	240e	138	93	142	214	579	1,420	680e	275	130e
6	78e	82e	190e	115	105	127	180e	672	1,370	650e	307	130e
7	75e	90e	180e	86	103	127	200e	699	1,230	650e	279	120e
8	72e	86e	140e	66	102	121	240e	686	1,120	640e	253	120e
9	76e	88e	110e	68	105	123	240e	650	1,000e	620e	235	120e
10	76e	82e	95e	69	100e	115	250e	618	1,000e	620e	226	120e
11	78e	80e	94e	71	110e	116	260e	611	1,000e	600e	228	120e
12	76e	80e	94e	66	110e	110	270e	650e	1,100e	590e	220	120e
13	75e	80e	88e	68	110e	114	300e	720e	1,400e	580e	211	110e
14	76e	82e	78e	73	99	117	350e	660e	1,600e	530e	206	110e
15	75e	84e	75e	92	95	123	400e	600e	1,800e	500e	198	110e
16	76	80e	74e	94	93	144	450e	580e	1,900e	450e	187	110e
17	77	75e	72e	94	101	140	540e	620e	1,900e	400e	180	110e
18	78	72e	70e	94	99	143	640e	700e	1,800e	380e	175	100e
19	77	80e	70e	101	101	166	720e	800e	1,800e	380e	171	100e
20	72	72e	68e	100	95	215	780e	888	1,700e	370e	167	100e
21	70	80e	60e	106	100	263	750e	937	1,600e	370e	157	100e
22	72	100e	70e	108	99	281	720e	1,110	1,500e	360e	150e	100e
23	73	130e	88e	103	107	291	700e	1,280	1,400e	360e	150e	98e
24	73	120e	110e	99	155	305	760e	1,650	1,300e	350e	150e	92e
25	77	140e	130e	103	188	333	810e	1,970	1,200e	340e	150e	90e
26	74	170e	160e	134	169	395	850e	1,940	1,100e	340e	150e	88e
27	73	150e	150e	113	150	357	824	1,760	950e	330e	140e	90e
28	74	140e	160e	118	167	306	698	1,860	900e	320e	140e	92e
29	73	160e	180e	104	-----	278	655	1,930	890e	320e	140e	95e
30	80	180e	200e	98	-----	257	666	1,780	890e	320e	150e	95e
31	82e	-----	230e	101	-----	236	-----	1,530	-----	310e	150e	-----
TOTAL	2,354	2,968	4,236	3,452	3,159	6,098	14,348	31,212	41,300	15,600	6,328	3,330
MEAN	75.9	98.9	137	111	113	197	478	1,007	1,377	503	204	111
MAX	84	180	270	272	188	395	850	1,970	1,900	880	310	150
MIN	70	72	60	66	93	110	180	579	890	310	140	88
AC-FT	4,670	5,890	8,400	6,850	6,270	12,100	28,460	61,910	81,920	30,940	12,550	6,610

CAL YEAR 1998	TOTAL*	9,558	MEAN	104	MAX	270	MIN	60	AC-FT	18,960
WTR YEAR 1999	TOTAL	134,385	MEAN	368	MAX	1,970	MIN	60	AC-FT	266,600

* Incomplete Record
e Estimated

IDAHO POWER COMPANY

13288300 Eagle Creek at Richland, Or

LOCATION.--Lat 44°45'17", long 117°10'22", in SW^{1/4}, NE^{1/4}, Sec. 26, T. 9S, R. 45E, Hydrologic Unit 17050203, at county road crossing approximately 1 mile south of Richland.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--April 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,120 ft. above mean sea level, from topographic map.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1998 TO SEP 1999

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								578	1,600	756	141	18
2								589	1,940	719	127	16
3								565	1,450	607	121	15
4								503	1,250	551	116	15
5								450	1,350	468	113	16
6								443	1,270	490	134	16
7								513	1,130	607	115	16
8								522	987	606	103	15
9								471	838	560	93	15
10								433	752	565	84	16
11								413	779	615	84	15
12								440	907	624	86	17
13								482	1,220	585	78	21
14								461	1,550	518	73	12
15								443	2,150	435	67	8.3
16								325	420	2,410	369	7.3
17								379	447	2,210	358	6.7
18								461	533	2,210	333	5.3
19								639	648	1,920	314	5.3
20								669	768	1,480	298	5.2
21								600	940	1,490	297	5.0
22								513	1,160	1,310	267	4.7
23								496	1,280	1,200	260	4.6
24								573	1,620	1,080	259	7.3
25								668	2,020	1,030	226	9.5
26								744	2,160	833	211	9.6
27								671	1,950	732	196	9.0
28								584	2,040	700	195	8.9
29								518	2,130	692	192	8.9
30					-----			490	1,820	757	185	8.2
31		-----			-----			490	1,820	757	185	8.2
								1,470	-----	161	18	-----
TOTAL							*	28,712	39,227	12,827	2,069	336.8
MEAN							555	926	1,308	414	66.7	11.2
MAX							744	2,160	2,410	756	141	21
MIN							325	413	692	161	15	4.6
AC-FT							*	56,950	77,810	25,440	4,100	668
CAL YEAR 1998	TOTAL*		0.0									
WTR YEAR 1999	TOTAL*	91,501.8	MEAN	545	MAX	2,410	MIN	4.6	AC-FT	181,500		

* Incomplete Record

IDAHO POWER COMPANY

13286700 Powder River near Richland, Or

LOCATION.--Lat. 44°46'40", long 117°17'30", in NE1/4, SW1/4, SE1/4, Sec. 14, T. 9S, R. 44E, Baker County, Oregon, Hydrologic Unit 17050203, on left bank 0.4 miles upstream from Timber Canyon and 6 miles west of Richland, at mile 20.3.

DRAINAGE AREA.--1,310 mi², approximately.

PERIOD OF RECORD.--March 1996 to current year. Station previously operated by USGS 1957 to 1996.

GAGE.--Water-stage recorder. Station equipment includes satellite telemetry. Datum of gage is 2,277.42 ft above msl.

REMARKS.--Records good except for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,580 ft³/s, gage height 4.47 ft., March 1; minimum daily 28 ft³/s August 28.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1998 TO SEP 1999

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	58	59	776	178	1,510	875	854	542	267	78	43
2	89	58	57	527	205	1,470	807	835	650	220	80	45
3	89	58	59	427	211	1,450	769	863	691	199	77	43
4	89	58	57	395	206	1,150	750	872	622	176	76	38
5	89	62	55	386	185	921	726	819	565	158	67	41
6	89	73	53	352	203	769	710	739	604	141	66	43
7	111	72	53	215	230	699	700	685	609	131	72	48
8	112	70	53	211	255	678	717	630	564	102	59	45
9	107	72	89	198	267	656	763	540	501	87	60	50
10	106	67	147	196	279	626	739	480	466	93	55	57
11	105	64	137	197	265	614	710	417	442	92	50	45
12	104	67	107	193	223	623	696	364	400	91	47	43
13	104	135	52	185	200	649	712	318	364	80	50	46
14	104	140	54	189	211	761	733	274	408	92	53	45
15	106	142	61	227	214	860	751	210	545	90	55	45
16	106	142	72	254	219	927	772	189	680	86	52	48
17	109	144	88	300	260	851	817	189	850	88	44	53
18	108	161	100e	315	278	822	874	251	968	95	40	51
19	110	151	90e	289	275	823	1,000	291	866	108	38	43
20	112	148	82e	319	244	894	1,090	313	807	121	40	49
21	114	148	75e	388	243	1,000	1,130	349	764	117	36	51
22	118	147	90e	397	241	1,150	1,070	397	717	103	35	49
23	112	153	110e	397	270	1,210	1,020	448	624	88	39	52
24	112	168	150e	338	544	1,230	975	504	561	77	40	45
25	127	161	176	286	990	1,270	1,000	617	529	79	35	40
26	118	156	204	260	1,270	1,320	1,070	751	489	84	38	38
27	118	156	226	249	1,310	1,260	1,110	843	469	78	30	46
28	118	141	258	263	1,300	1,130	1,060	790	415	81	24	56
29	117	75	629	231	-----	1,000	985	728	382	84	25	60
30	77	61	836	205	-----	929	905	705	334	76	30	72
31	60	-----	643	200	-----	902	-----	626	-----	77	30	-----
TOTAL	3,228	3,308	4,970	9,365	10,776	30,154	26,036	16,891	17,428	3,461	1,521	1,430
MEAN	104	110	160	302	385	973	868	545	581	112	49.1	47.7
MAX	127	168	836	776	1,310	1,510	1,130	872	968	267	80	72
MIN	60	58	52	185	178	614	696	189	334	76	24	38
AC-FT	6,400	6,560	9,860	18,580	21,370	59,810	51,640	33,500	34,570	6,860	3,020	2,840
CAL YEAR 1998	TOTAL	11,506	MEAN	125	MAX	836	MIN	52	AC-FT	22,820		
WTR YEAR 1999	TOTAL	128,568	MEAN	352	MAX	1,510	MIN	24	AC-FT	255,000		

e Estimated

IDAHO POWER COMPANY

13132513 Wildhorse River at Brownlee Dam

LOCATION.--Lat. 44°51'08", Long. 116°53'41", in the NE1/4 SW1/4 Section 36 T. 18N, R. 5W, Adams County, Idaho, Hydrologic Unit 17050201, on the right bank, approximately 1800 feet upstream from the mouth and 1.0 mile North of Brownlee Dam.

DRAINAGE AREA.--177 mi², approximately.

PERIOD OF RECORD.--Station operated by USGS from October 1978 to September 1996. Operated by Idaho Power Company from July 1996 to current year.

GAGE.--Water stage recorder. Elevation of gage is 1,840 feet above sea level, from topographic map.

REMARKS.--Records fair, except computed discharges for the period while the fish weir was in place (August 25 to November 20) and estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,310 ft³/s April 20; minimum daily, 24 ft³/s September 25.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1998 TO SEP 1999

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	42e	112	173e	51e	453	311	545	508	169	46	32e
2	29	42	142	146e	54e	362	290	586	509	159	44	31e
3	33	31	291	122e	51e	307	297	609	549	149	43	31e
4	33	43	166	101e	53e	267	266	559	558	141	42	30e
5	31	53	130	89e	55	226	255	532	560	133	42	29e
6	33	57	115e	81e	61	207	247	491	535	125	48	29e
7	34	100	103e	76e	66	196	322	493	521	123	46	30e
8	28	124	84e	72e	61	182	432	489	463	119	44	29e
9	26	81	68e	67e	65	177	371	477	406	113	44e	29e
10	29	61	64e	64e	59	166	317	482	376	103	43e	29e
11	30	58	71e	63e	58	161	303	450	315	98	44e	28e
12	33	42	72e	60e	60	154	383	443	311	95	50e	27e
13	32e	43	71e	58e	62	157	523	466	342	93	52e	28e
14	34	42	69e	63e	61	174	611	449	385	88	56e	29e
15	33e	45	60e	145e	58	191	626	425	464	89	53e	29e
16	36e	42	61e	174e	61	245	709	402	541	87	48e	29e
17	36	56e	61e	157e	66	249	854	412	523	85	46e	28e
18	35	56e	60e	146e	50	217	1,020	538	516	83	43e	28e
19	32	48e	40e	145e	52	246	1,210	582	491	79	41e	28e
20	33	43	60e	170e	50	386	1,310	620	431	78	40e	28e
21	36	49	56e	174e	60	586	1,020	689	408	82	38e	27e
22	38	67	60	173	59	640	784	761	359	77	38e	27
23	36	55	59	162	65	679	726	823	327	72	37e	28
24	33	76	61	132	211	754	764	895	307	70	36e	27
25	36	66	63	102	381	851	857	914	292	69	35e	24
26	39	67	65	89	297	1,190	933	930	259	66	33e	26
27	42	62	67	75	242	748	857	815	227	63	32e	27
28	44	73	71	69	338	548	680	766	207	60	32e	28
29	38	73	77	63	-----	458	572	749	190	56	32e	29
30	45	68	121	59	-----	423	500	695	183	51	31e	29
31	42	-----	164	55	-----	360	-----	553	-----	48	32e	-----
TOTAL	1,065	1,765	2,764	3,325	2,807	11,960	18,350	18,640	12,063	2,923	1,291	853
MEAN	34.4	58.8	89.2	107	100	386	612	601	402	94.3	41.6	28.4
MAX	45	124	291	174	381	1,190	1,310	930	560	169	56	32
MIN	26	31	40	55	50	154	247	402	183	48	31	24
AC-FT	2,110	3,500	5,480	6,600	5,570	23,720	36,400	36,970	23,930	5,800	2,560	1,690
CAL YEAR 1998 TOTAL		56,138	MEAN	154	MAX	1,380	MIN	22	AC-FT	111,300		
WTR YEAR 1999 TOTAL		77,806	MEAN	213	MAX	1,310	MIN	24	AC-FT	154,300		

e Estimated

IDAHO POWER COMPANY

13290190 Pine Creek nr Oxbow Dam, OR

LOCATION.--Lat. 44°46'40", long. 117°17'30", in NW1/4 Sec. 9, T. 7S, R. 48E, Baker County, Oregon, Hydrologic Unit 17050201, on right bank at Hwy 71 crossing, at mile 0.5.

PERIOD OF RECORD.--March 1996 to current year. Station previously operated by USGS 1966 to 1996.

GAGE.--Water-stage recorder.

REMARKS.--Records fair except estimated daily discharges, which are poor. Numerous diversions upstream for irrigation.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3250 ft³/s May 25; minimum daily, 37 ft³/s, September 26.

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCT 1998 TO SEP 1999

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	64	517	820	185	1,370	800	1,080	2,150	913	80e	48e
2	71	64	858	679	197	1,230	741	1,250	2,240	882	76e	46e
3	74	62	1,030	556	183	1,150	747	1,200	1,820	791	76e	46e
4	77	62	749	445	183	1,100	649	1,060	1,630	793	76e	46e
5	76	71	606	382	171	972	557	946	1,670	711	74e	48e
6	68	84	472	341	212	865	465	902	1,630	678	70e	48e
7	63	73	366	313	350	796	475	992	1,470	693	66e	48e
8	59	79	337	292	561	770	681	950	1,420	693	65e	46e
9	59	77	258	265	461	742	691	860	1,150	663	62e	45e
10	63	71	236	251	350	724	514	791	1,050	655	62e	45e
11	68	72	231	246	280e	669	425	704	1,070	654	69e	44e
12	69	74	237	228	180e	680	472	780	1,200	644	77e	43e
13	67	71	239	222	200e	804	638	841	1,400	620	80e	42e
14	70	80	232	244	220e	925	796	784	1,600	560	80e	42e
15	72	79	225	675	250e	927	821	698	1,870	503	78e	43e
16	72	76	208	825	290	1,070	866	635	2,070	471	75e	43e
17	69	114	202	738	384	1,060	941	772	1,950	444	70e	42e
18	71	112	194	680	433	1,020	1,040	933	1,950	419	66e	41e
19	69	91	153	676	437	1,090	1,350	1,070	1,840	391	62e	40e
20	67	103	125	806	413	1,320	1,650	1,350	1,610	365	60e	40e
21	64	272	104	823	437	1,670	1,430	1,780	1,570	374	58e	40e
22	62	296	128	822	420	1,570	1,120	2,140	1,410	349	58e	39e
23	60	231	120e	762	461	1,550	1,080	2,610	1,270	325	56e	39e
24	61	383	130e	607	1,540	1,410	1,220	2,990	1,210	304	54e	38e
25	65	450	140e	452	1,740	1,410	1,620	3,250	1,190	306	50e	38e
26	62	359	150e	384	1,460	1,730	1,810	2,990	1,080	285	48e	37e
27	65	294	160e	310	1,170	1,350	1,530	2,550	977	200e	48e	39e
28	63	367	182	279	1,410	1,160	1,190	2,460	935	150e	48e	45e
29	64	389	319	244	-----	1,050	1,010	2,450	906	130e	48e	47e
30	64	386	550	225	-----	972	940	2,390	910	110e	50e	48e
31	65	-----	771	206	-----	894	-----	2,180	-----	90e	50e	-----
TOTAL	2,060	5,006	10,229	14,798	14,578	34,050	28,269	46,388	44,248	15,166	1,992	1,296
MEAN	66.5	167	330	477	521	1,098	942	1,496	1,475	489	64.3	43.2
MAX	77	450	1,030	825	1,740	1,730	1,810	3,250	2,240	913	80	48
MIN	59	62	104	206	171	669	425	635	906	90	48	37
AC-FT	4,090	9,930	20,290	29,350	28,920	67,540	56,070	92,010	87,770	30,080	3,950	2,570
CAL YEAR 1998	TOTAL	144,720	MEAN	396	MAX	2,330	MIN	37	AC-FT	287,100		
WTR YEAR 1999	TOTAL	218,080	MEAN	597	MAX	3,250	MIN	37	AC-FT	432,600		

e Estimated