

**12098000 MUD MOUNTAIN LAKE NEAR BUCKLEY, WA**

Puget Sound Basin  
Puyallup Subbasin

LOCATION.--Lat 47°08'27", long 121°55'48" referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.17, T.19 N., R.7 E., Pierce County, WA, Hydrologic Unit 17110014, on left bank of reservoir just upstream from Mud Mountain Dam on White River, 5 mi southeast of Buckley, 5.6 mi downstream from Clearwater River, and at mile 29.7.

DRAINAGE AREA.--400 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1943 to current year. Daily elevation at 0800 hours only October 1988 to September 1992. Month-end contents only October 1943 to September 1944, published in WSP 1316. Prior to October 1970, published as Mud Mountain Reservoir near Buckley.

GAGE.--Water-stage recorder. Prior to Oct. 1, 2005, non-recording gage at same site and datum. Datum of gage is NGVD of 1929 (levels by Corps of Engineers).

COOPERATION.--Records of lake elevations and capacity table furnished by Corps of Engineers (revised by USGS below 917 ft). Table uncertain below about 970 ft, due to siltation. Mud Mountain Lake is considered to have no appreciable storage below 917 ft.

REMARKS.--Lake, for flood control, is formed by earth fill dam. Embankment completed and storage began on small scale in 1942. Capacity, 106,000 acre-ft between elevations 895 ft, invert of outlet tunnel, and 1,215 ft, spillway crest. Storage is dissipated as soon after a flood as is possible, without creating damaging flows downstream, in order to have the maximum capacity available for any following flood which might develop.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed since dam was completed, 89,245 acre-ft, Feb. 9, 1996, elevation, 1,196.1 ft; no contents at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum contents 65,200 acre-ft, Nov. 8, elevation 1164.3 ft; No contents many days during the year.

## 12098000 MUD MOUNTAIN LAKE NEAR BUCKLEY, WA—Continued

**RESERVOIR STORAGE, ACRE FEET**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY OBSERVATION AT 0800 HOURS**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	94	0	22,100	535	89	0	443	0	933	0	124	112
2	93	0	21,400	536	0	0	396	0	257	0	127	109
3	91	128	19,900	3,270	0	0	323	0	737	0	130	112
4	91	---	18,500	3,530	0	0	172	0	1,590	0	119	111
5	92	---	17,800	1,880	0	0	124	0	403	0	116	109
6	91	997	16,500	4,200	0	0	101	0	121	0	119	110
7	91	40,400	13,300	4,920	0	0	143	0	105	0	121	106
8	90	65,000	10,100	6,710	0	0	138	0	96	0	124	105
9	90	62,300	7,770	2,550	0	0	130	0	104	0	119	105
10	90	49,500	5,960	1,600	0	0	130	0	106	0	114	106
11	89	---	4,430	1,580	0	142	126	726	96	0	111	102
12	90	---	4,070	1,660	0	1,280	123	1,030	0	0	111	103
13	90	13,900	3,040	1,600	0	3,610	104	1,260	0	158	111	103
14	91	6,240	2,140	1,440	0	6,080	105	1,140	0	153	113	103
15	91	4,440	7,300	1,510	0	5,260	103	1,490	0	143	117	105
16	104	7,500	7,290	1,720	203	2,530	100	1,820	0	147	119	105
17	97	14,500	4,650	1,650	185	960	91	1,770	0	141	112	103
18	93	---	4,270	1,370	169	207	0	1,110	0	135	111	103
19	118	21,800	2,060	1,530	155	239	0	839	0	143	116	103
20	117	21,800	1,350	799	144	222	0	760	0	133	111	95
21	95	21,200	1,500	553	135	204	0	971	0	136	111	97
22	90	21,900	1,090	373	109	192	0	971	0	134	112	105
23	95	21,600	2,800	309	0	194	0	743	0	141	112	105
24	93	22,200	2,770	336	0	204	0	817	0	148	112	93
25	94	22,400	2,700	284	0	3,860	0	825	0	138	114	93
26	91	22,600	1,260	258	0	6,410	0	798	0	134	114	93
27	90	22,800	718	550	0	4,410	0	979	0	133	105	93
28	90	22,500	590	548	0	2,180	0	788	0	126	106	105
29	90	22,100	551	141	---	1,180	0	694	0	125	107	105
30	92	22,300	534	112	---	691	0	1,220	0	128	112	105
31	89	---	535	99	---	494	---	1,740	---	124	114	---
<b>Mean</b>	94	---	6,740	1,550	42	1,310	95	726	152	85	115	103
<b>Max</b>	118	---	22,100	6,710	203	6,410	443	1,820	1,590	158	130	112
<b>Min</b>	89	---	534	99	0	0	0	0	0	0	105	93
<b>Monthend elevation, in feet, at 2400 hours</b>	916.8	1,083.8	946.4	918.1	908.0	944.5	905.2	958.6	910.0	922.6	921.2	919.7
<b>Monthend contents, in acre-feet</b>	0	22,200	531	96	0	478	0	962	0	124	114	105
<b>Change in Contents, in acre-feet</b>	-96	+22,200	-21,669	-435	-96	+478	-478	+962	-962	+124	-10	-9

	Calendar Year 2006	Water Year 2007
<b>Change in Contents, in acre-feet</b>	-145	+9