

**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, 15,300 acre-ft, Jan 21, elevation, 1,063.1 ft; No content many days during the year.

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

**RESERVOIR STORAGE, ACRE FEET**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**  
**DAILY OBSERVATION AT 0800 HOURS**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	95	0	0	583	272	0	0	0	0	0	0	101
2	0	97	0	359	235	0	0	0	139	0	0	101
3	0	0	0	274	228	0	0	0	179	0	0	103
4	0	0	0	0	240	0	0	0	143	0	0	107
5	0	0	0	0	217	0	0	0	170	0	133	109
6	0	0	0	96	189	0	0	0	129	0	587	110
7	0	0	0	170	172	0	0	0	110	0	1,620	106
8	0	0	0	258	157	0	0	0	101	0	381	105
9	0	0	0	223	145	0	0	0	0	0	179	106
10	0	0	0	2,010	139	0	0	0	0	0	124	101
11	0	0	0	7,560	135	0	0	0	0	0	0	100
12	0	0	0	2,810	132	0	0	0	0	0	0	102
13	0	0	0	983	129	0	0	0	119	0	0	103
14	0	0	0	703	128	0	0	0	103	0	0	98
15	0	0	0	459	122	0	0	0	91	0	115	95
16	0	0	0	361	118	0	0	0	91	0	113	93
17	0	0	0	565	122	0	0	151	93	0	110	91
18	0	0	0	4,770	115	0	0	229	0	0	112	92
19	0	0	0	9,820	123	0	0	227	0	0	113	101
20	0	0	0	13,500	118	0	0	203	0	0	114	96
21	0	0	0	15,000	119	0	0	153	0	0	113	109
22	0	0	0	13,300	99	0	0	120	0	0	115	102
23	0	0	99	9,950	0	0	0	144	0	0	112	97
24	0	0	3,310	6,430	0	0	0	142	0	0	109	96
25	0	0	9,890	2,280	0	0	0	122	0	0	107	96
26	0	0	10,100	377	0	0	0	97	0	0	108	96
27	0	0	7,810	163	0	0	0	0	0	0	110	96
28	0	0	4,970	127	0	0	0	137	0	0	110	98
29	0	0	2,530	126	---	0	0	114	0	0	111	96
30	0	0	459	470	---	0	0	91	0	0	103	95
31	0	---	634	332	---	0	---	0	---	0	100	---
<b>Mean</b>	3	3	1,280	3,030	123	0	0	62	49	0	158	100
<b>Max</b>	95	97	10,100	15,000	272	0	0	229	179	0	1,620	110
<b>Min</b>	0	0	0	0	0	0	0	0	0	0	0	91
<b>Monthend elevation, in feet, at 2400 hours</b>	917.1	903.4	951.0	935.6	906.7	904.3	912.3	915.9	912.8	905.4	918.7	918.1
<b>Monthend contents, in acre-feet</b>	90	0	676	279	0	0	0	82	0	0	99	96
<b>Change in Contents, in acre-feet</b>	-37	-90	+676	-397	-279	+0	+0	+82	-82	+0	+99	-3

	Calendar Year 2005	Water Year 2006
<b>Mean</b>	370	408
<b>Max</b>	18,900	15,000
<b>Min</b>	0	0
<b>Change in Contents, in acre-feet</b>	+676	-31