

PUYALLUP RIVER BASIN

12098000 MUD MOUNTAIN LAKE NEAR BUCKLEY, WA

LOCATION.--Lat 47°08'27", long 121°55'48", in NE 1/4 NE 1/4 sec.17, T.19 N., R.7 E., Pierce County, 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 mi².

PERIOD OF RECORD.--October 1943 to current year. Daily contents at 0800 hours only October 1944 to September 1987. Monthend contents only October 1943 to September 1944, published in WSP 1316. Prior to October 1970, published as Mud Mountain Reservoir near Buckley.

GAGE.--Nonrecording gage. Datum of gage is NGVD of 1929 (levels by Corps of Engineers).

REMARKS.--Lake, for flood control, is formed by earthfill 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.

COOPERATION.--Records of lake elevations and capacity table furnished by Corps of Engineers (revised by U.S.G.S. 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.

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 some years.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 13,669 acre-ft Apr. 15, elevation, 1,057.3 ft; no contents many days during the year.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY OBSERVATION AT 0800 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	174	0.00	0.00	0.00	90	0.00	0.00	158	101	0.00	0.00
2	94	149	0.00	0.00	0.00	0.00	0.00	0.00	140	91	0.00	0.00
3	93	128	0.00	0.00	0.00	0.00	0.00	0.00	130	0.00	0.00	0.00
4	94	120	0.00	0.00	0.00	0.00	0.00	0.00	121	0.00	0.00	0.00
5	93	127	0.00	0.00	0.00	0.00	165	0.00	147	0.00	0.00	0.00
6	90	117	0.00	0.00	0.00	0.00	170	0.00	176	0.00	0.00	0.00
7	89	112	0.00	215	0.00	0.00	200	0.00	128	0.00	0.00	0.00
8	90	108	0.00	5240	0.00	0.00	2913	0.00	100	0.00	0.00	0.00
9	92	106	0.00	7066	0.00	0.00	3093	0.00	0.00	0.00	0.00	0.00
10	91	103	0.00	3024	0.00	0.00	2764	0.00	0.00	0.00	0.00	0.00
11	109	101	0.00	536	0.00	0.00	2855	0.00	0.00	0.00	0.00	0.00
12	97	99	578	217	0.00	144	1365	0.00	98	0.00	0.00	0.00
13	114	112	194	187	0.00	119	531	0.00	118	0.00	0.00	0.00
14	116	603	1023	170	0.00	106	5039	0.00	183	0.00	0.00	0.00
15	111	4439	215	0.00	0.00	97	13669	0.00	174	0.00	0.00	0.00
16	104	279	230	0.00	0.00	90	12819	0.00	174	0.00	0.00	0.00
17	101	0.00	597	1885	0.00	0.00	8345	0.00	138	0.00	0.00	0.00
18	95	0.00	270	3444	0.00	0.00	3216	0.00	114	0.00	0.00	0.00
19	95	0.00	207	0.00	0.00	0.00	149	0.00	105	0.00	0.00	0.00
20	101	0.00	172	0.00	0.00	131	0.00	0.00	93	---	0.00	0.00
21	100	0.00	160	0.00	0.00	112	0.00	101	101	---	0.00	0.00
22	107	---	147	0.00	130	0.00	0.00	103	104	0.00	0.00	0.00
23	156	108	140	0.00	200	0.00	0.00	96	114	0.00	0.00	0.00
24	120	0.00	134	0.00	178	0.00	0.00	0.00	103	0.00	---	0.00
25	127	0.00	129	0.00	142	0.00	0.00	0.00	102	0.00	---	0.00
26	123	0.00	126	0.00	119	0.00	0.00	98	111	0.00	0.00	0.00
27	115	0.00	122	0.00	106	0.00	0.00	109	130	0.00	0.00	0.00
28	109	0.00	125	0.00	98	0.00	0.00	167	120	0.00	0.00	0.00
29	107	0.00	120	0.00	---	0.00	0.00	220	263	0.00	0.00	0.00
30	105	0.00	117	0.00	---	0.00	0.00	230	150	0.00	0.00	0.00
31	143	---	117	0.00	---	0.00	---	195	---	0.00	0.00	---
MAX	156	4439	1023	7066	200	144	13669	230	263	101	0.00	0.00
MIN	89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(††)	927.4	904.4	913.8	904.2	917.6	906.2	910.4	928.1	921.4	905.3	901.5	899.8
(†)	162	0	0	0	93	0	0	169	116	0	0	0
(‡)	+69	-162	0	0	+93	-93	0	+169	-53	-116	0	0

CAL YR 2001 AC-FT† -123
WTR YR 2002 AC-FT† -93

†† Monthend elevation, in feet, at 2400 hours.
† Monthend contents, in acre-feet.
‡ Change in contents, in acre-feet.