Water-Data Report 2009

15278000 EKLUTNA LAKE NEAR PALMER, AK

Knik Arm Basin
Matanuska Subbasin

LOCATION.--Lat 61°24′39″, long 149°07′20″ referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.18, T.15 N., R.2 E., Municipality of Anchorage, AK, Hydrologic Unit 19020402, (Anchorage B-6 quad), on north shore, 0.7 mi upstream from lake outlet, 12 mi upstream from mouth of Eklutna River, and 14 mi south of Palmer.

DRAINAGE AREA.--119 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 1946 to September 1962 (fragmentary after January 1955), June 1983 to current year. Fragmentary records for the period October 1962 to June 1983 available from Eklutna Hydroelectric Project.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by Alaska Power Administration). Prior to June 1983, non-recording gage at lake outlet at datum of 859.8 ft above sea level.

REMARKS.--Lake outlet consists of earth and rockfill dam with uncontrolled spillway crest at an elevation of 871 ft. Prior to 1965, control structure 1400 ft upstream with spillway crest at elevation of 867.5 ft which could be flash-boarded to elevation of 871 ft. Outflow was controlled by the flash boards and sluice gates. Dead storage below elevation of 859 ft. Reservoir is used for power generation and water supply. Rain gage at station. GOES satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 877.68 ft, September 25, 1995; minimum observed, 814.2 ft, June 1, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 868.10 ft., on Sep. 2; minimum, 838.72 ft., May 3 and 4.

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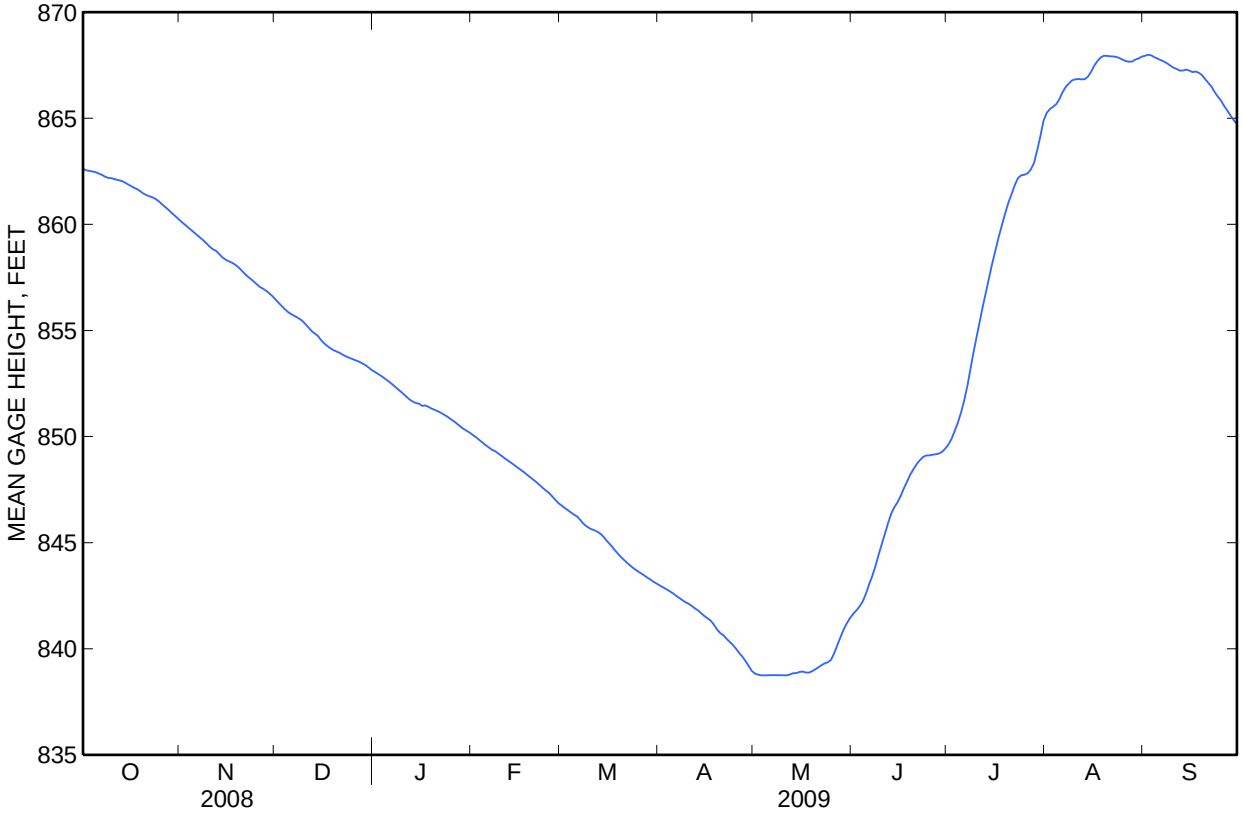
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	862.62	860.14	856.44	853.05	850.08	846.75	842.98	838.83	841.67	849.63	865.25	867.94
2	862.55	860.01	856.27	852.96	849.96	846.64	842.91	838.78	841.81	849.90	865.43	867.99
3	862.52	859.87	856.09	852.85	849.84	846.53	842.82	838.75	842.00	850.26	865.54	867.96
4	862.49	859.74	855.94	852.75	849.73	846.42	842.72	838.74	842.24	850.66	865.66	867.87
5	862.46	859.63	855.83	852.65	849.61	846.31	842.61	838.75	842.61	851.14	865.89	867.81
6	862.39	859.50	855.74	852.54	849.49	846.22	842.51	838.77	843.03	851.72	866.22	867.74
7	862.33	859.37	855.67	852.43	849.38	846.06	842.41	838.77	843.43	852.41	866.48	867.67
8	862.24	859.24	855.58	852.28	849.31	845.89	842.30	838.76	843.90	853.20	866.64	867.59
9	862.19	859.10	855.48	852.14	849.21	845.75	842.20	838.75	844.44	854.02	866.78	867.48
10	862.17	858.95	855.33	852.03	849.10	845.67	842.13	838.75	844.95	854.77	866.83	867.38
11	862.13	858.83	855.16	851.88	848.98	845.60	842.03	838.75	845.42	855.47	866.85	867.32
12	862.09	858.75	855.00	851.75	848.88	845.53	841.91	838.79	845.93	856.20	866.83	867.25
13	862.05	858.60	854.87	851.66	848.77	845.46	841.81	838.85	846.38	856.96	866.84	867.25
14	861.99	858.44	854.76	851.58	848.66	845.31	841.68	838.86	846.69	857.64	866.95	867.29
15	861.90	858.34	854.57	851.55	848.57	845.13	841.55	838.91	846.92	858.25	867.18	867.25
16	861.82	858.26	854.40	851.45	848.44	844.96	841.44	838.93	847.21	858.86	867.47	867.17
17	861.74	858.19	854.28	851.47	848.33	844.80	841.33	838.89	847.57	859.47	867.69	867.20
18	861.66	858.10	854.17	851.40	848.22	844.60	841.14	838.88	847.89	860.04	867.86	867.14
19	861.57	857.98	854.08	851.32	848.10	844.44	840.92	838.95	848.22	860.55	867.94	867.03
20	861.46	857.83	854.01	851.26	847.98	844.29	840.75	839.04	848.47	861.05	867.94	866.84
21	861.38	857.68	853.94	851.19	847.86	844.13	840.64	839.13	848.71	861.45	867.92	866.67
22	861.32	857.54	853.85	851.11	847.72	844.01	840.48	839.23	848.88	861.88	867.91	866.49
23	861.27	857.42	853.77	851.02	847.59	843.87	840.33	839.32	849.04	862.20	867.89	866.23
24	861.19	857.29	853.72	850.94	847.46	843.76	840.18	839.37	849.11	862.31	867.83	866.02
25	861.07	857.15	853.65	850.84	847.35	843.66	840.01	839.49	849.12	862.34	867.76	865.83
26	860.94	857.03	853.60	850.72	847.19	843.56	839.81	839.77	849.15	862.41	867.69	865.58
27	860.81	856.94	853.54	850.59	847.02	843.46	839.63	840.18	849.17	862.59	867.66	865.36
28	860.68	856.85	853.46	850.48	846.86	843.36	839.42	840.59	849.20	862.90	867.68	865.13
29	860.53	856.71	853.38	850.37	---	843.27	839.19	840.92	849.28	863.47	867.77	864.91
30	860.40	856.58	853.26	850.28	---	843.15	838.96	841.21	849.43	864.13	867.82	864.73
31	860.27	---	853.14	850.19	---	843.06	---	841.44	---	864.87	867.90	---
Mean	861.68	858.34	854.61	851.57	848.56	844.89	841.29	839.26	846.40	857.83	867.10	866.87
Max	862.62	860.14	856.44	853.05	850.08	846.75	842.98	841.44	849.43	864.87	867.94	867.99
Min	860.27	856.58	853.14	850.19	846.86	843.06	838.96	838.74	841.67	849.63	865.25	864.73

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