

Water-Data Report 2010

## 10260860 Grass Valley Lake near Lake Arrowhead, CA

Mojave River Basin

LOCATION.--Lat 34°15'49", long 117°13'04" referenced to North American Datum of 1983, in NE ¼ NW ¼ sec.17, T.2 N., R.3 W., San Bernardino County, CA, Hydrologic Unit 18090208, at north end of lake, near spillway, and 2.0 mi northwest of the town of Lake Arrowhead.

DRAINAGE AREA.--2.59 mi<sup>2</sup>.

### **SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 2008 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (County of San Bernardino bench mark).

REMARKS.--Lake is formed by earthfill dam, completed in 1964. Capacity below spillway level, at elevation 5,142.73 ft, is 243 acre-ft. Natural flow of Grass Valley Creek, into lake, is unregulated and unaffected by diversion. Lake elevations may be affected, at times, by discharges of treated domestic water and pumping for nearby irrigation. Outflow from lake is by two identical spillways. Flow over north spillway is gaged at station 10260865 (Grass Valley Creek below Grass Valley Lake, near Lake Arrowhead), and is regulated by the spillway crest. Flow over east spillway is gaged at station 10260855 (Grass Valley Lake Tunnel Outlet, at Lake Arrowhead), and is regulated by the spillway crest and a gated entrance to the Grass Valley Lake Tunnel, 200 ft east of the spillway. See schematic diagram of Mojave River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum recorded elevation, 5,146.22 ft, Feb. 6, 2010 (spilling); minimum recorded elevation, 5,139.99 ft, Oct. 6, 2009.

EXTREMES FOR CURRENT YEAR.--Maximum recorded elevation, 5,146.22 ft, Feb.6 (spilling); minimum recorded elevation, 5,139.99 ft, Oct. 6.

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**LAKE OR RESERVOIR WATER SURFACE ELEVATION ABOVE NGVD 1929, FEET**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**  
**DAILY OBSERVATION AT 2400 HOURS**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	5,140.30	5,140.74	5,140.67	5,142.89	5,142.98	5,143.22	5,143.03	5,143.04	5,143.12	5,142.52	5,142.74	5,142.41
2	5,140.17	5,140.70	5,140.68	5,142.89	5,142.98	5,143.20	5,143.03	5,143.03	5,143.12	5,142.45	5,142.74	5,142.39
3	5,140.06	5,140.83	5,140.69	5,142.89	5,142.98	5,143.19	5,143.02	5,143.01	5,143.10	5,142.39	5,142.74	5,142.38
4	5,140.03	5,140.82	5,140.69	5,142.88	5,143.03	5,143.18	5,143.04	5,142.98	5,143.07	5,142.34	5,142.75	5,142.36
5	5,140.01	5,140.81	5,140.71	5,142.88	5,143.45	5,143.15	5,143.20	5,142.96	5,143.03	5,142.27	5,142.74	5,142.34
6	5,140.14	5,140.78	5,140.72	5,142.88	5,143.37	5,143.17	5,143.11	5,142.94	5,142.97	5,142.20	5,142.73	5,142.32
7	5,140.47	5,140.75	5,140.92	5,142.88	5,143.15	5,143.16	5,143.08	5,142.93	5,142.91	5,142.19	5,142.72	5,142.31
8	5,140.57	5,140.73	5,140.93	5,142.88	5,143.17	5,143.22	5,143.06	5,142.98	5,142.88	5,142.26	5,142.73	5,142.29
9	5,140.55	5,140.72	5,140.94	5,142.87	5,143.17	5,143.15	5,143.03	5,142.98	5,142.87	5,142.30	5,142.72	5,142.28
10	5,140.53	5,140.69	5,140.95	5,142.87	5,143.13	5,143.14	5,143.03	5,142.99	5,142.87	5,142.35	5,142.70	5,142.27
11	5,140.51	5,140.67	5,141.18	5,142.87	5,143.12	5,143.13	5,143.04	5,142.97	5,142.88	5,142.40	5,142.69	5,142.25
12	5,140.50	5,140.81	5,144.45	5,142.87	5,143.11	5,143.12	5,143.21	5,142.91	5,142.89	5,142.44	5,142.68	5,142.24
13	5,140.70	5,140.99	5,143.04	5,142.85	5,143.11	5,143.12	5,143.15	5,142.93	5,142.89	5,142.47	5,142.68	5,142.23
14	5,140.98	5,140.98	5,142.95	5,142.84	5,143.12	5,143.10	5,143.12	5,142.95	5,142.88	5,142.51	5,142.66	5,142.21
15	5,141.03	5,140.98	5,142.91	5,142.85	5,143.11	5,143.10	5,143.10	5,142.94	5,142.87	5,142.54	5,142.65	5,142.20
16	5,141.05	5,140.97	5,142.90	5,142.86	5,143.11	5,143.10	5,143.09	5,142.95	5,142.86	5,142.58	5,142.64	5,142.18
17	5,141.05	5,140.95	5,142.90	5,142.88	5,143.12	5,143.10	5,143.06	5,142.97	5,142.85	5,142.60	5,142.62	5,142.17
18	5,141.05	5,140.95	5,142.89	5,143.12	5,143.12	5,143.10	5,143.03	5,142.98	5,142.85	5,142.62	5,142.63	5,142.15
19	5,141.04	5,140.95	5,142.88	5,143.00	5,143.12	5,143.09	5,143.04	5,142.94	5,142.84	5,142.64	5,142.62	5,142.13
20	5,141.03	5,140.75	5,142.89	5,143.04	5,143.11	5,143.08	5,143.21	5,142.90	5,142.84	5,142.65	5,142.60	5,142.12
21	5,141.01	5,140.61	5,142.91	5,143.26	5,143.17	5,143.08	5,143.14	5,142.88	5,142.84	5,142.66	5,142.58	5,142.10
22	5,140.96	5,140.57	5,142.92	5,143.06	5,143.12	5,143.07	5,143.12	5,142.88	5,142.83	5,142.67	5,142.56	5,142.08
23	5,140.88	5,140.56	5,142.90	5,143.01	5,143.10	5,143.06	5,143.18	5,143.10	5,142.80	5,142.69	5,142.55	5,142.07
24	5,140.80	5,140.56	5,142.90	5,142.99	5,143.09	5,143.05	5,143.13	5,143.05	5,142.78	5,142.71	5,142.53	5,142.06
25	5,140.73	5,140.55	5,142.89	5,142.98	5,143.10	5,143.05	5,143.10	5,143.01	5,142.75	5,142.73	5,142.53	5,142.05
26	5,140.65	5,140.55	5,142.88	5,143.10	5,143.09	5,143.04	5,143.08	5,143.01	5,142.72	5,142.75	5,142.51	5,142.04
27	5,140.60	5,140.55	5,142.88	5,143.02	5,143.35	5,143.03	5,143.06	5,143.05	5,142.70	5,142.75	5,142.49	5,142.03
28	5,140.81	5,140.64	5,142.88	5,143.00	5,143.26	5,143.01	5,143.09	5,143.05	5,142.66	5,142.75	5,142.45	5,142.02
29	5,141.03	5,140.66	5,142.89	5,142.99	---	5,143.01	5,143.07	5,143.02	5,142.62	5,142.75	5,142.44	5,142.02
30	5,140.95	5,140.66	5,142.89	5,143.00	---	5,143.01	5,143.05	5,143.04	5,142.57	5,142.75	5,142.43	5,142.03
31	5,140.84	---	5,142.89	5,142.99	---	5,143.05	---	5,143.07	---	5,142.75	5,142.42	---
<b>Max</b>	5,141.05	5,140.99	5,144.45	5,143.26	5,143.45	5,143.22	5,143.21	5,143.10	5,143.12	5,142.75	5,142.75	5,142.41
<b>Min</b>	5,140.01	5,140.55	5,140.67	5,142.84	5,142.98	5,143.01	5,143.02	5,142.88	5,142.57	5,142.19	5,142.42	5,142.02

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