Water-Data Report 2012

08105600 Granger Lake near Granger, TX

Little Basin
San Gabriel Subbasin

LOCATION.--Lat 30°41′34″, long 97°19′34″ referenced to North American Datum of 1927, Williamson County, TX, Hydrologic Unit 12070205, at Granger Dam on San Gabriel River, 1.5 mi south of Friendship, 2.2 mi upstream from Willis Creek, 7.1 mi east of Granger, and at mile 31.9.

DRAINAGE AREA.--730 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Jan. 1980 to Sept. 2000 (contents furnished by U.S. Army Corps of Engineers), Oct. 2000 to Sept. 2002 (daily mean contents), Oct. 2002 to current year.

PERIOD OF RECORD, Water-Quality.--
CHEMICAL DATA: Oct. 1980 to Aug. 1989.
BIOCHEMICAL DATA: Oct. 1980 to Aug. 1989.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to Mar. 27, 1980, nonrecording gage at present site and datum. Satellite telemeter at station.

COOPERATION.--Prior to Oct. 1, 2000, record of contents furnished by the U.S. Army Corps of Engineers and reviewed by the U.S. Geological Survey. A new capacity table, provided by the Texas Water Development Board, was put into use beginning Oct. 1, 1995.

REMARKS.--Records good. The lake is formed by a rolled earthfill dam, 16,320 ft long, including the spillway. The dam is owned by the U.S. Army Corps of Engineers. The lake was built for water conservation and flood control. Deliberate impoundment began on Jan. 21, 1980. The spillway is an ungated 950-ft long ogee weir, located near right end of dam. The spillway for normal flood releases is a gated 18-ft-diameter conduit, controlled by two 8- by 18-ft slide gates, located near the center of dam. The invert for the floodgate is 457.0 ft. A low-flow outlet consists of three 3- by 4-ft gated openings, with invert elevations of 486.0, 494.0, and 502.0 ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam	555.0
Designed flood	550.3
Crest of spillway	528.0
Top of conservation pool	503.8
Lowest gated outlet (invert of 18-foot conduit)	457.0

Water quality data published as:

Site ID	Site name
304132097200801	Granger Lake Site AC
304209097195101	Granger Lake Site AL
304206097215001	Granger Lake Site BC
304108097215101	Granger Lake Site CC
303947097231401	Granger Lake Site DC

Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

EXTREMES FOR PERIOD OF RECORD.--Jan. 1980 to Sept. 2002: Maximum contents, 268,200 acre-ft, Mar. 5, 1992; minimum contents after initial filling, 44,860 acre-ft, Sept. 23, 2000; Jan. 1980 to current year: maximum elevation, 530.11 ft, Mar. 5, 1992, minimum elevation, 498.40 ft, Nov. 12, 13, 14, and 15, 2011.

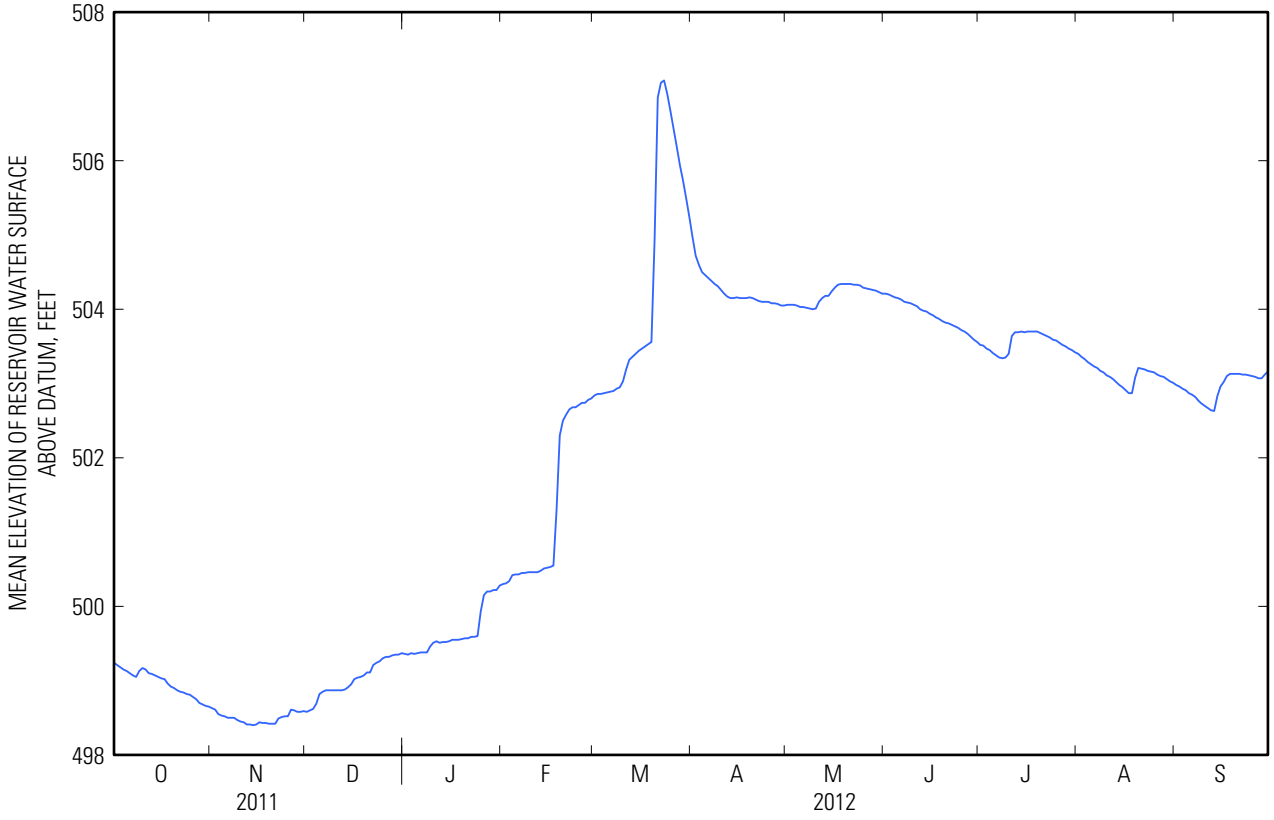
EXTREMES FOR CURRENT YEAR.--Maximum elevation, 507.12 ft, Mar. 23; minimum elevation, 498.40 ft, Nov. 12, 13, 14, 15.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 08105600, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/08105600.2012.pdf

08105600 Granger Lake near Granger, TX—Continued

ELEVATION OF RESERVOIR WATER SURFACE ABOVE DATUM, FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	499.24	498.63	498.58	499.36	500.30	502.84	504.97	504.06	504.21	503.52	503.40	502.98
2	499.21	498.61	498.60	499.35	500.31	502.86	504.72	504.06	504.20	503.51	503.36	502.96
3	499.18	498.55	498.62	499.37	500.34	502.86	504.60	504.06	504.18	503.47	503.33	502.93
4	499.15	498.53	498.69	499.36	500.42	502.87	504.50	504.05	504.16	503.45	503.29	502.91
5	499.13	498.52	498.82	499.37	500.43	502.88	504.46	504.03	504.15	503.41	503.26	502.87
6	499.10	498.50	498.85	499.38	500.43	502.89	504.42	504.03	504.13	503.38	503.23	502.85
7	499.07	498.50	498.87	499.38	500.45	502.90	504.38	504.02	504.10	503.35	503.21	502.82
8	499.05	498.50	498.87	499.38	500.45	502.93	504.34	504.01	504.09	503.34	503.17	502.77
9	499.13	498.47	498.87	499.46	500.46	502.95	504.31	504.00	504.08	503.35	503.15	502.73
10	499.17	498.45	498.87	499.51	500.46	503.03	504.26	504.01	504.06	503.40	503.11	502.70
11	499.15	498.44	498.87	499.53	500.46	503.19	504.21	504.10	504.04	503.64	503.09	502.67
12	499.10	498.41	498.87	499.51	500.46	503.32	504.17	504.15	504.00	503.69	503.06	502.64
13	499.09	498.41	498.88	499.52	500.48	503.36	504.15	504.18	503.98	503.69	503.02	502.63
14	499.07	498.40	498.91	499.52	500.51	503.40	504.15	504.18	503.97	503.70	502.98	502.83
15	499.05	498.41	498.95	499.53	500.52	503.44	504.16	504.24	503.94	503.69	502.95	502.96
16	499.03	498.44	499.02	499.55	500.53	503.47	504.15	504.29	503.92	503.70	502.91	503.02
17	499.02	498.43	499.04	499.55	500.55	503.50	504.15	504.33	503.89	503.70	502.87	503.10
18	498.96	498.43	499.05	499.55	501.31	503.53	504.15	504.34	503.87	503.70	502.87	503.13
19	498.92	498.42	499.07	499.56	502.30	503.56	504.16	504.34	503.84	503.70	503.08	503.13
20	498.90	498.42	499.11	499.57	502.50	504.94	504.15	504.34	503.82	503.68	503.21	503.13
21	498.87	498.42	499.11	499.57	502.58	506.85	504.13	504.34	503.81	503.66	503.20	503.13
22	498.85	498.49	499.21	499.59	502.65	507.05	504.11	504.33	503.79	503.64	503.19	503.12
23	498.84	498.51	499.24	499.59	502.68	507.08	504.10	504.33	503.77	503.62	503.17	503.12
24	498.82	498.52	499.26	499.60	502.68	506.90	504.10	504.32	503.75	503.59	503.16	503.11
25	498.81	498.52	499.30	499.93	502.71	506.67	504.10	504.29	503.72	503.58	503.15	503.10
26	498.78	498.61	499.32	500.15	502.74	506.43	504.08	504.28	503.70	503.55	503.12	503.09
27	498.75	498.60	499.32	500.20	502.74	506.19	504.08	504.27	503.67	503.52	503.10	503.07
28	498.70	498.58	499.34	500.20	502.78	505.94	504.07	504.26	503.63	503.50	503.09	503.07
29	498.68	498.58	499.35	500.22	502.80	505.73	504.05	504.25	503.59	503.47	503.06	503.12
30	498.66	498.59	499.35	500.22	---	505.49	504.05	504.23	503.56	503.45	503.03	503.16
31	498.65	---	499.37	500.28	---	505.24	---	504.21	---	503.42	503.01	---
Mean	498.97	498.50	499.02	499.64	501.31	504.33	504.25	504.19	503.92	503.55	503.12	502.96
Max	499.24	498.63	499.37	500.28	502.80	507.08	504.97	504.34	504.21	503.70	503.40	503.16
Min	498.65	498.40	498.58	499.35	500.30	502.84	504.05	504.00	503.56	503.34	502.87	502.63

	Calendar Year 2011	Water Year 2012
Mean	501.65	501.98
Max	504.16	507.08
Min	498.40	498.40

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