Water-Data Report 2007

08022200 Murvaul Lake near Gary, TX

Sabine Basin
Middle Sabine Subbasin

LOCATION.--Lat 32°02′04″, long 94°25′15″ referenced to North American Datum of 1927, Panola County, TX, Hydrologic Unit 12010002, at outlet structure of Murvaul Lake Dam on Murvaul Bayou (tributary to Sabine River), 3.0 mi northwest of Gary, and 9.0 mi southwest of Carthage.

DRAINAGE AREA.--115 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Apr. 1999 to Sept. 2001 (contents), Oct. 2001 to current year. Water-quality records: Chemical data: Dec. 1969 to Mar. 1978.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good. The dam is formed by a rolled earthfill structure 8,300 ft long with an uncontrolled broad-crested weir-type spillway, 270 ft in length, at right end of dam. The dam is the property of the Panola County Fresh Water Supply District No. 1, Carthage, and was built to impound water for municipal and industrial uses. Storage began in Nov. 1957 and the lake level reached the service spillway elevation in May 1958. Data regarding the dam is given in the following table:

Elevation (feet)	
Top of dam	280.0
Top of design flood pool	275.0
Crest of spillway	265.3
Invert of lowest sluice gate	235.0

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 42,600 acre-ft, May 21, 2000, elevation, 266.54 ft; minimum contents, 31,750 acre-ft, Sept. 30, 2000, elevation, 263.31 ft; maximum elevation, 268.20 ft, May 2, 2004; minimum elevation, 261.03 ft, Jan. 13, 15, 2006.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 267.73 ft, Jan. 15; minimum elevation, 263.53 ft, Oct. 15.

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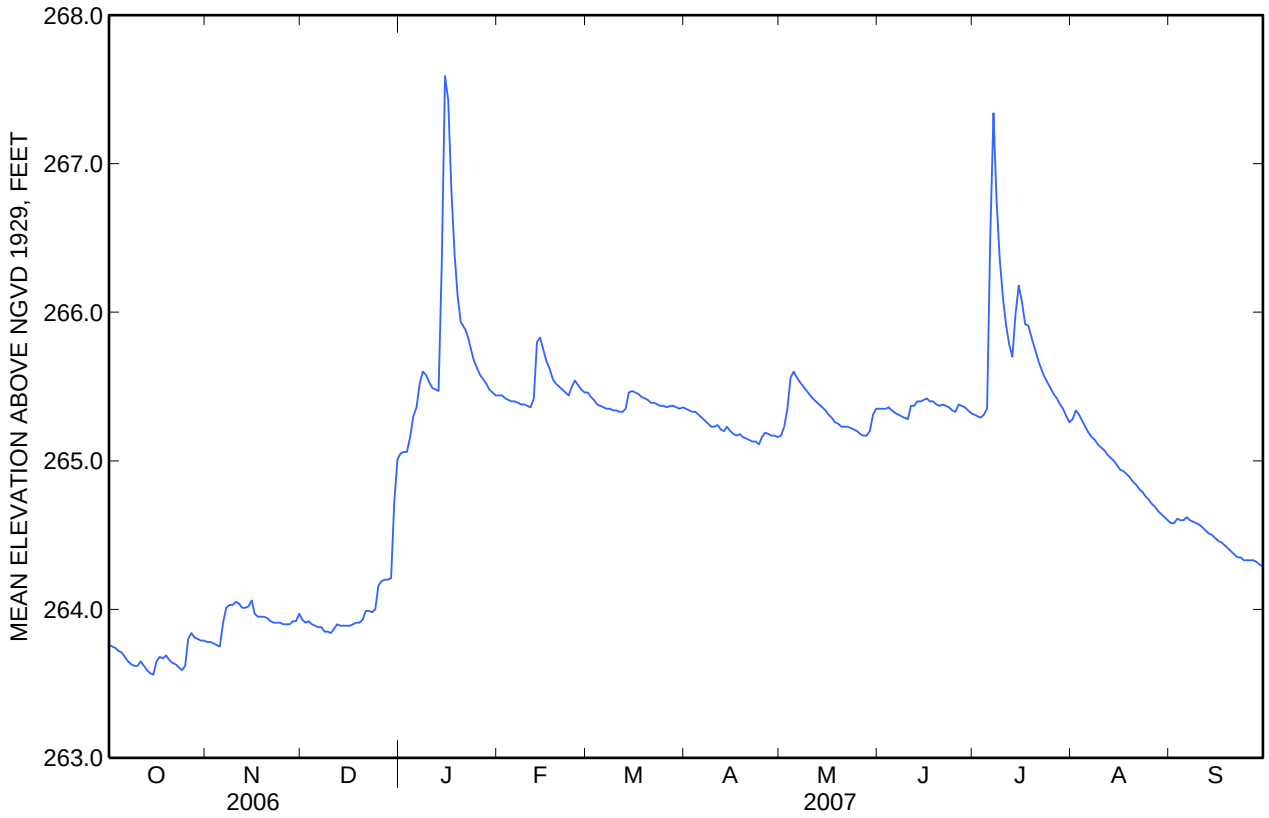
ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	263.76	263.78	263.93	265.05	265.44	265.46	265.35	265.17	265.35	265.31	265.28	264.58
2	263.75	263.78	263.91	265.06	265.44	265.43	265.34	265.23	265.35	265.30	265.34	264.58
3	263.74	263.77	263.92	265.06	265.42	265.41	265.33	265.35	265.35	265.29	265.31	264.61
4	263.72	263.76	263.90	265.16	265.41	265.38	265.33	265.56	265.36	265.31	265.27	264.60
5	263.71	263.75	263.89	265.30	265.40	265.37	265.31	265.60	265.34	265.35	265.23	264.60
6	263.68	263.91	263.88	265.36	265.40	265.36	265.29	265.56	265.32	266.51	265.19	264.62
7	263.65	264.01	263.88	265.52	265.39	265.35	265.27	265.53	265.31	267.34	265.16	264.60
8	263.63	264.03	263.85	265.60	265.38	265.35	265.25	265.50	265.30	266.76	265.14	264.59
9	263.62	264.03	263.85	265.58	265.38	265.34	265.23	265.47	265.29	266.36	265.11	264.58
10	263.62	264.05	263.84	265.53	265.37	265.34	265.23	265.45	265.28	266.10	265.09	264.57
11	263.65	264.04	263.87	265.49	265.36	265.33	265.24	265.42	265.37	265.91	265.07	264.55
12	263.62	264.01	263.90	265.48	265.42	265.33	265.21	265.40	265.37	265.78	265.04	264.53
13	263.59	264.01	263.89	265.47	265.80	265.35	265.20	265.38	265.40	265.70	265.02	264.51
14	263.57	264.02	263.89	266.34	265.83	265.46	265.23	265.36	265.40	265.99	265.00	264.50
15	263.56	264.06	263.89	267.59	265.75	265.47	265.20	265.34	265.41	266.18	264.97	264.48
16	263.65	263.97	263.89	267.43	265.67	265.46	265.18	265.31	265.42	266.07	264.94	264.46
17	263.68	263.95	263.90	266.82	265.62	265.45	265.17	265.29	265.40	265.92	264.93	264.45
18	263.67	263.95	263.91	266.39	265.55	265.43	265.18	265.26	265.40	265.91	264.91	264.43
19	263.69	263.95	263.91	266.11	265.52	265.42	265.16	265.25	265.38	265.83	264.89	264.41
20	263.66	263.94	263.93	265.93	265.50	265.41	265.15	265.23	265.37	265.76	264.86	264.39
21	263.64	263.92	263.99	265.90	265.48	265.39	265.14	265.23	265.38	265.69	264.84	264.37
22	263.63	263.91	263.99	265.85	265.46	265.39	265.13	265.23	265.37	265.62	264.81	264.35
23	263.61	263.91	263.98	265.76	265.44	265.38	265.13	265.22	265.36	265.57	264.79	264.35
24	263.59	263.91	264.00	265.69	265.50	265.37	265.11	265.21	265.34	265.53	264.76	264.33
25	263.62	263.90	264.16	265.63	265.54	265.37	265.16	265.20	265.33	265.49	264.74	264.33
26	263.80	263.90	264.19	265.58	265.51	265.36	265.19	265.18	265.38	265.45	264.71	264.33
27	263.84	263.90	264.20	265.55	265.48	265.37	265.18	265.17	265.37	265.42	264.69	264.33
28	263.81	263.92	264.20	265.52	265.46	265.37	265.17	265.17	265.36	265.38	264.66	264.32
29	263.80	263.92	264.21	265.48	---	265.36	265.17	265.20	265.34	265.35	264.64	264.30
30	263.79	263.97	264.72	265.46	---	265.35	265.16	265.31	265.32	265.30	264.62	264.29
31	263.79	---	265.01	265.44	---	265.36	---	265.35	---	265.26	264.60	---
Mean	263.68	263.93	264.02	265.75	265.50	265.39	265.21	265.33	265.36	265.77	264.96	264.46
Max	263.84	264.06	265.01	267.59	265.83	265.47	265.35	265.60	265.42	267.34	265.34	264.62
Min	263.56	263.75	263.84	265.05	265.36	265.33	265.11	265.17	265.28	265.26	264.60	264.29

	Water Year 2007
Mean	264.94
Max	267.59
Min	263.56

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