

Water-Data Report 2011

08077650 Moses Lake-Galveston Bay near Texas City, TX

Galveston Bay-Sabine Lake Basin
West Galveston Bay Subbasin

LOCATION.--Lat 29°26'50", long 94°55'12" referenced to North American Datum of 1927, Galveston County, TX, Hydrologic Unit 12040204, on right side of gate abutment of Texas City Flood Control Dike, at mouth of Moses Lake, and 4.5 mi north of Texas City.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1967 to Sept 2003 (maximum and minimum elevations for Galveston Bay and maximum elevation for Moses Lake). Oct. 2003 to current year (maximum and minimum elevations for Galveston Bay and Moses Lake).

GAGE.--Water-stage recorders. Datum of gage is NGVD of 1929 (levels by Galveston County engineer), 1978 adjustment. Prior to May 19, 1983, datum of gage was 0.49 ft below NGVD of 1929, 1973 adjustment. Records unadjusted for land-surface subsidence. Satellite telemeter at station.

REMARKS.--Records fair. Astronomical tides cause significant cycles of approximately 24.84 hours at this site. Because a different portion of the 24.84 hour tidal cycle is averaged in successive daily (24-hour) computations, a systematic secondary oscillation, unrelated to basin hydrology and having a period of about two weeks may be apparent. Moses Lake is connected to Galveston Bay by gated opening through levee. The gate is open during periods of normal tide and is closed during periods of high tide and hurricane surge. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

EXTREMES FOR PERIOD OF RECORD.--

MOSES LAKE: Maximum elevation, 4.8 ft, Sept. 11, 1998; minimum elevation, -2.3 ft, Nov. 16, 2006.

GALVESTON BAY: Maximum elevation, 13.0 ft, from Hurricane Ike, Sept. 13, 2008; minimum elevation, about -4.2 ft, Feb. 28, 1983.

EXTREMES OUTSIDE PERIOD OF RECORD.--

MOSES LAKE: Minimum elevation, -4.2 ft, Feb. 28, 1983.

EXTREMES FOR CURRENT YEAR.--

MOSES LAKE: Maximum elevation, 2.6 ft, Apr. 27; minimum elevation, -1.9 ft, Dec. 13.

GALVESTON BAY: Maximum elevation, 2.8 ft, Sept. 3; minimum elevation, -2.0 ft, Dec. 13.

08077650 Moses Lake-Galveston Bay near Texas City, TX—Continued
ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	1.7	0.3	1.4	0.6	0.8	-1.0	1.9	-0.2	1.4	-0.8	0.9	-0.9
2	1.9	0.3	1.5	0.3	1.3	0.0	1.0	-0.8	-0.5	-1.7	1.2	0.2
3	1.6	0.5	0.7	0.0	1.4	-0.3	1.2	-0.2	0.2	-0.8	1.6	0.9
4	1.6	0.6	0.4	-1.0	1.1	-0.5	1.5	0.0	0.6	-0.8	1.6	0.8
5	1.5	0.7	0.6	-0.8	1.1	-0.8	1.4	-0.2	0.1	-0.6	1.8	-0.6
6	1.5	0.9	0.8	-0.4	1.2	-0.4	0.8	-0.7	0.7	0.0	1.1	-0.3
7	1.2	0.6	1.0	-0.6	1.1	-0.4	0.6	-0.7	0.7	-1.3	1.9	0.7
8	1.1	0.1	1.2	-0.4	1.8	-0.1	0.6	-0.4	1.0	-1.0	2.1	1.0
9	1.3	-0.1	1.4	0.0	1.2	-0.2	2.4	0.4	---	---	1.2	0.1
10	1.6	0.0	1.6	0.3	1.3	0.2	1.4	0.2	0.2	-1.5	0.4	-0.6
11	1.9	0.2	1.6	0.3	1.5	0.4	0.4	-0.4	0.7	-0.7	1.2	-0.5
12	1.8	0.1	1.8	0.6	0.8	-1.8	0.5	-0.5	0.6	-0.7	1.3	0.0
13	1.5	-0.1	1.4	0.1	-0.1	-2.0	0.7	-0.5	0.5	-1.0	1.2	-0.3
14	0.9	0.1	1.4	0.5	1.0	-0.1	---	---	0.5	-0.8	1.1	-0.2
15	1.4	0.3	1.8	1.2	1.2	0.0	---	---	0.7	-0.7	1.0	-0.3
16	1.3	0.2	1.8	0.0	1.0	0.1	---	---	1.1	-0.5	1.2	0.0
17	1.1	0.3	1.7	0.5	1.2	-0.2	---	---	1.1	-0.1	1.5	0.1
18	1.3	0.5	1.6	-0.4	1.2	-0.3	---	---	1.0	0.0	1.3	0.4
19	1.4	0.8	1.5	0.2	1.4	-0.2	0.9	-0.8	0.6	-0.2	1.1	0.6
20	1.3	0.6	1.7	0.3	1.6	0.0	1.3	-0.2	0.8	0.2	1.3	0.6
21	1.3	0.2	2.0	0.4	1.6	-0.5	0.2	-0.9	1.0	0.4	1.3	0.3
22	1.7	0.8	2.2	0.6	1.2	-0.6	0.8	-0.4	0.8	-0.1	1.3	-0.2
23	2.0	0.9	2.2	-0.1	0.9	-0.5	0.9	0.4	1.0	-0.3	1.3	-0.1
24	2.2	0.4	2.1	0.5	1.5	0.1	1.1	0.6	1.5	0.0	1.3	-0.2
25	1.8	0.1	2.2	0.8	1.2	-1.7	1.1	-0.1	1.0	-0.1	1.3	-0.1
26	2.0	0.3	1.8	-0.5	-0.2	-1.3	0.6	-0.8	1.1	-0.3	1.4	0.1
27	1.9	0.3	1.3	0.4	1.0	-0.2	0.5	-0.9	1.4	0.0	1.4	0.1
28	1.9	-0.5	2.0	1.3	1.1	0.4	0.3	-1.2	1.5	0.5	1.3	-0.1
29	1.1	0.2	2.3	1.6	1.4	-0.2	0.5	-1.2	---	---	---	---
30	1.7	0.2	1.8	-0.4	1.7	0.3	0.7	-0.8	---	---	---	---
31	1.5	0.1	---	---	1.8	0.3	0.9	-0.4	---	---	---	---
Month	2.2	-0.5	2.3	-1.0	1.8	-2.0	---	---	---	---	---	---

08077650 Moses Lake-Galveston Bay near Texas City, TX—Continued
ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	1.1	0.4	2.0	1.0	1.5	-0.2	1.7	-0.1	1.3	0.1	2.0	0.6
2	1.2	0.3	1.8	0.2	1.3	-0.2	1.4	0.1	1.0	0.4	2.7	1.5
3	1.2	0.3	0.4	-0.5	1.8	0.1	1.2	-0.2	1.1	0.3	2.8	-1.0
4	1.5	-0.3	1.6	-0.3	1.7	0.2	1.3	0.2	1.1	0.2	-0.6	-1.8
5	0.8	-1.0	1.5	0.4	1.2	0.2	1.3	0.2	1.2	0.0	-0.2	-1.1
6	1.5	0.1	1.2	0.0	1.5	0.1	1.3	0.6	1.5	0.0	1.5	-0.4
7	1.6	0.1	1.4	-0.2	1.5	0.6	1.3	0.4	1.3	-0.1	1.4	0.2
8	1.4	0.1	1.4	0.0	1.3	0.6	1.3	0.1	1.3	-0.3	1.6	0.2
9	1.7	0.4	1.5	0.2	2.0	0.9	1.4	-0.1	1.2	-0.5	1.2	0.4
10	1.8	0.6	1.7	0.6	1.7	0.7	1.6	0.1	1.1	-0.4	1.2	0.5
11	2.0	0.6	1.9	0.9	1.5	0.5	1.7	-0.3	1.2	-0.4	1.3	0.5
12	1.0	-0.5	1.9	0.8	1.5	0.4	1.4	-0.4	1.2	-0.2	1.1	0.4
13	1.3	0.4	1.6	0.4	1.7	-0.1	1.4	-0.4	1.0	-0.2	1.1	0.3
14	1.5	0.8	0.5	-0.2	1.5	-0.6	1.2	-0.3	0.9	-0.3	0.9	-0.1
15	1.5	0.1	1.3	-0.2	1.4	-0.6	1.2	-0.5	0.8	0.1	1.2	0.0
16	0.3	-0.4	1.2	0.0	1.3	-0.4	1.2	-0.2	0.8	0.1	1.2	0.3
17	1.6	-0.4	1.8	0.0	1.4	-0.2	1.2	0.0	0.7	0.0	1.5	0.3
18	1.8	0.3	1.8	0.3	1.3	-0.1	1.2	0.1	0.8	0.0	1.9	0.3
19	1.9	0.1	2.7	0.6	1.3	-0.1	1.3	0.4	1.1	0.1	2.1	0.1
20	1.7	0.2	2.6	0.8	1.6	0.3	1.4	0.6	1.4	0.2	1.4	0.0
21	1.8	0.0	2.1	1.1	1.8	0.9	1.2	0.3	1.5	-0.1	1.5	0.1
22	1.7	0.4	1.9	0.7	1.7	0.7	1.3	0.1	1.4	-0.2	1.5	0.2
23	1.8	0.5	1.8	1.0	1.6	0.6	1.5	0.1	1.3	0.0	1.3	0.3
24	1.9	0.7	1.7	1.0	1.8	0.9	1.3	-0.1	1.4	-0.2	1.5	0.5
25	2.0	0.8	1.8	1.1	1.9	0.6	1.3	-0.3	1.7	-0.1	1.4	0.6
26	2.3	1.0	1.5	0.4	1.9	0.4	1.3	-0.2	1.5	-0.1	1.4	0.6
27	2.6	0.7	1.2	0.5	1.9	0.3	1.3	-0.1	1.1	-0.2	1.2	0.5
28	1.0	0.1	1.6	0.7	1.8	0.3	1.7	0.0	1.0	-0.2	1.1	0.0
29	1.8	0.4	2.0	0.8	1.9	0.1	2.4	0.2	1.1	0.1	1.3	-0.1
30	2.4	1.0	2.3	0.9	1.9	0.2	1.9	0.6	1.2	0.5	1.2	-0.3
31	---	---	2.2	0.3	---	---	1.5	0.5	1.4	0.6	---	---
Month	2.6	-1.0	2.7	-0.5	2.0	-0.6	2.4	-0.5	1.7	-0.5	2.8	-1.8

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ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	1.7	0.5	1.4	0.6	0.7	-0.8	2.0	0.3	1.3	-0.6	0.9	-0.5
2	1.8	0.6	1.6	0.5	1.3	0.3	1.1	-0.2	-0.4	-1.5	1.4	0.4
3	1.6	0.6	0.8	0.2	1.4	0.0	1.2	0.1	0.4	-0.7	1.6	0.9
4	1.7	0.6	0.5	-0.6	1.1	-0.2	1.6	0.3	0.7	-0.6	1.7	0.9
5	1.5	0.8	0.5	-0.6	1.1	-0.2	1.4	0.0	0.0	-0.6	2.0	0.2
6	1.4	0.9	0.9	-0.1	1.2	0.1	0.9	-0.4	0.8	0.0	1.0	0.0
7	1.2	0.8	1.2	-0.1	1.2	-0.1	0.6	-0.6	0.8	-1.1	1.9	0.7
8	1.1	0.3	1.2	-0.1	1.7	0.4	0.6	-0.2	1.1	-0.8	2.0	1.2
9	1.3	0.2	1.5	0.3	1.3	0.0	2.1	0.4	1.2	-0.2	1.4	0.3
10	1.7	0.4	1.7	0.6	1.3	0.3	1.4	0.4	0.3	-1.1	0.5	-0.2
11	1.9	0.6	1.7	0.6	1.5	0.6	0.6	-0.3	0.7	-0.4	1.2	-0.3
12	1.8	0.4	1.8	0.8	0.9	-1.7	0.6	-0.4	0.7	-0.4	1.2	0.3
13	1.6	0.2	1.5	0.2	-0.1	-1.9	0.9	-0.2	0.5	-0.7	1.2	0.1
14	1.0	0.2	1.4	0.6	0.9	-0.1	1.0	-0.1	0.6	-0.6	1.1	0.0
15	1.5	0.4	1.9	1.3	1.2	0.2	1.2	0.2	0.6	-0.5	1.1	-0.1
16	1.4	0.3	1.8	0.2	1.0	0.2	1.4	0.0	1.0	-0.2	1.2	0.2
17	1.2	0.4	1.7	0.5	1.3	0.0	1.8	0.4	1.1	0.1	1.4	0.4
18	1.3	0.5	1.7	0.1	1.3	0.1	1.6	0.1	1.0	0.1	1.3	0.5
19	1.5	1.0	1.6	0.4	1.3	0.3	0.9	-0.3	0.7	0.0	1.1	0.7
20	1.3	0.6	1.7	0.6	1.6	0.3	1.4	0.1	0.7	0.2	1.3	0.7
21	1.2	0.3	2.0	0.7	1.7	0.0	0.2	-0.6	1.0	0.3	1.2	0.4
22	1.6	0.8	2.2	1.0	1.2	-0.2	0.8	-0.2	0.8	0.0	1.2	0.1
23	2.1	1.1	2.2	0.6	1.0	0.0	1.1	0.4	1.0	-0.2	1.2	0.2
24	2.2	0.8	2.1	0.8	1.6	0.4	1.3	0.9	0.7	0.1	1.3	0.1
25	1.8	0.4	2.2	1.1	1.3	-1.3	1.2	0.0	1.1	0.2	1.3	0.2
26	1.9	0.7	1.8	-0.1	-0.2	-1.2	0.6	-0.6	1.1	-0.1	1.4	0.2
27	2.0	0.6	1.3	0.3	1.0	-0.2	0.4	-0.6	1.4	0.2	1.4	0.3
28	1.8	0.2	2.0	1.1	1.2	0.5	0.3	-0.9	1.4	0.6	1.4	0.3
29	1.1	0.4	2.3	1.6	1.5	0.0	0.4	-1.0	---	---	---	---
30	1.8	0.4	1.9	-0.4	1.7	0.4	0.6	-0.4	---	---	---	---
31	1.6	0.4	---	---	1.9	0.7	0.9	-0.1	---	---	---	---
Month	2.2	0.2	2.3	-0.6	1.9	-1.9	2.1	-1.0	1.4	-1.5	---	---

08077650 Moses Lake-Galveston Bay near Texas City, TX—Continued
ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	1.0	0.4	2.1	1.2	1.4	0.2	1.6	0.4	1.1	0.4	0.8	0.7
2	1.1	0.2	2.1	0.6	1.0	0.0	1.3	0.3	0.9	0.4	0.8	0.7
3	1.0	0.2	0.7	0.0	1.7	0.1	1.1	0.0	1.0	0.4	0.7	0.4
4	1.4	0.2	1.7	-0.1	1.6	0.5	1.1	0.3	1.0	0.3	0.8	-1.4
5	0.8	-0.5	1.6	0.7	1.1	0.2	1.2	0.3	1.1	0.1	-0.3	-1.4
6	1.4	0.1	1.3	0.4	1.4	0.0	1.2	0.6	1.3	0.1	1.2	-0.9
7	1.4	0.2	1.4	0.1	1.3	0.6	1.1	0.5	1.2	0.0	1.4	0.3
8	1.2	0.3	1.4	0.3	1.2	0.5	1.1	0.2	1.2	-0.1	1.4	0.4
9	1.6	0.4	1.6	0.4	1.2	0.6	1.3	0.2	1.1	-0.1	0.7	0.5
10	1.8	0.6	1.7	0.7	1.4	0.6	1.5	0.3	1.0	-0.2	0.6	0.5
11	1.6	0.8	2.0	1.1	1.6	0.3	1.4	0.1	1.0	-0.2	0.6	0.5
12	1.1	-0.1	1.9	1.2	1.7	0.0	1.2	-0.1	1.0	0.0	0.9	0.5
13	1.3	0.5	1.8	0.6	1.6	0.2	1.2	-0.2	0.9	0.0	0.9	0.4
14	1.5	0.8	0.7	0.0	1.2	0.0	1.0	-0.1	0.8	0.0	0.8	0.1
15	1.5	0.4	1.4	0.0	1.2	-0.1	1.0	-0.2	0.7	0.1	0.8	0.0
16	0.5	-0.2	1.3	0.3	---	---	1.1	-0.1	0.7	0.2	1.2	0.4
17	1.5	-0.3	1.8	0.3	---	---	1.1	0.2	0.7	0.1	1.4	0.5
18	1.7	0.7	1.9	0.7	1.1	0.1	1.0	0.2	0.7	0.1	1.6	0.5
19	1.8	0.4	2.3	0.8	1.1	0.1	1.1	0.4	0.9	0.2	1.5	0.2
20	1.7	0.6	2.5	1.2	1.4	0.4	1.3	0.7	1.3	0.3	1.2	0.3
21	1.8	0.3	2.1	1.3	1.6	1.0	1.1	0.5	1.3	0.3	1.5	0.4
22	1.6	0.7	1.7	0.8	1.5	0.8	1.2	0.3	1.3	0.0	1.5	0.4
23	1.9	0.6	1.6	0.9	1.5	0.8	1.3	0.3	1.2	0.1	1.4	0.5
24	2.0	1.0	1.5	0.9	1.7	0.8	1.2	0.1	1.3	0.2	1.6	0.6
25	2.1	1.2	1.6	1.0	1.7	0.7	1.1	-0.1	1.4	0.2	1.4	0.8
26	2.4	1.2	1.4	0.4	1.7	0.6	1.1	-0.1	1.4	0.2	1.3	0.8
27	2.6	1.0	1.1	0.3	1.6	0.5	1.2	0.0	1.0	0.1	1.1	0.7
28	1.1	0.3	1.5	0.5	1.6	0.5	0.1	0.1	0.9	0.0	1.1	0.3
29	1.8	0.6	1.9	0.6	1.7	0.5	0.2	0.1	0.9	0.3	1.1	0.1
30	2.4	1.2	2.1	1.0	1.7	0.4	1.7	0.0	1.1	0.5	1.2	0.0
31	---	---	2.1	0.7	---	---	1.4	0.7	1.1	0.6	---	---
Month	2.6	-0.5	2.5	-0.1	---	---	1.7	-0.2	1.4	-0.2	1.6	-1.4