

Water-Data Report 2011

08074710 Buffalo Bayou at Turning Basin, Houston, TX

San Jacinto Basin
Buffalo-San Jacinto Subbasin

LOCATION.--Lat 29°44'57", long 95°17'27" referenced to North American Datum of 1927, Harris County, TX, Hydrologic Unit 12040104, on left bank at Wharf No. 5 at end of private road, 1.8 mi upstream from Brays Bayou, and 4.9 mi east of downtown Houston.

DRAINAGE AREA.--465 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Jan. 1987 to Sep. 2009 (daily maximum, minimum, and mean gage height). Oct. 2009 to current year (daily maximum and minimum gage height).

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: Jan. 1998.

BIOCHEMICAL DATA: Jan. 1998.

BIOLOGICAL DATA: Jan. 1998.

PERIOD OF DAILY RECORD, Water-Quality.--

SPECIFIC CONDUCTANCE: Apr. 1986 to Sept. 2005.

pH: July 1998 to Sept. 2005.

WATER TEMPERATURE: Apr. 1986 to Sept. 2005.

DISSOLVED OXYGEN: Apr. 1986 to Sept. 2005.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929, 1978 adjustment, unadjusted for land-surface subsidence. Satellite telemeter at station.

REMARKS.--Records good. 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 in daily data published from Jan. 1987 to Sep. 2009. Only very large storms or hurricane surge produces elevations above normal tidal fluctuations. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 14.76 ft, Sept. 13, 2008 (Hurricane Ike); minimum, -3.2 ft, Sept. 24, 2005.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 4.57 ft, Jan. 9; minimum elevation, -2.24 ft, Dec. 25.

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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	2.31	0.35	2.08	0.60	1.30	-0.92	2.25	-0.39	2.19	-1.25	1.53	-0.93
2	2.39	0.35	3.27	0.34	1.85	0.16	1.61	-0.72	-0.09	-2.00	1.85	0.41
3	2.23	0.40	1.52	-0.24	1.71	-0.07	1.93	-0.01	0.91	-1.03	2.52	0.96
4	2.21	0.41	0.87	-1.35	1.65	-0.34	2.19	0.27	0.91	-0.93	2.16	1.08
5	2.29	0.69	1.39	-1.07	1.60	-0.99	1.89	-0.15	0.77	-0.51	2.43	-0.51
6	2.19	0.67	1.75	-0.37	1.63	-0.43	1.40	-0.62	1.37	0.22	1.78	-0.61
7	2.07	0.30	1.60	-0.42	1.82	-0.12	1.06	-0.57	1.25	-1.44	2.98	0.98
8	1.93	0.06	1.79	-0.16	2.74	-0.14	1.29	-0.17	2.50	-0.73	2.84	1.73
9	2.05	-0.08	1.97	0.26	1.85	0.21	4.57	1.24	2.42	-0.89	1.76	0.36
10	2.07	0.31	2.28	0.39	1.97	0.50	1.90	0.31	0.80	-1.78	0.69	-0.66
11	2.34	0.69	2.17	0.70	2.13	0.44	0.86	-0.47	1.12	-0.69	2.03	-0.40
12	2.38	0.31	2.38	0.74	0.81	-1.88	0.80	-0.47	1.10	-0.60	2.00	0.37
13	1.92	0.01	1.95	0.20	0.58	-1.96	1.24	-0.30	1.10	-0.79	1.89	0.10
14	1.24	0.31	1.77	0.80	1.65	0.12	1.57	-0.25	1.03	-0.66	1.62	-0.07
15	1.98	0.39	2.36	1.50	2.03	0.67	1.67	-0.01	1.31	-0.46	1.80	-0.24
16	1.88	0.35	2.13	0.21	1.49	0.10	2.35	0.07	1.53	-0.14	2.08	0.23
17	1.79	0.34	2.36	1.03	1.67	-0.09	2.40	0.28	1.72	0.14	1.96	0.59
18	1.94	0.49	1.68	-0.53	1.75	-0.33	1.90	-0.28	1.65	0.16	2.08	0.74
19	2.12	1.03	2.31	0.20	2.14	0.16	1.67	-0.66	1.18	-0.10	2.08	0.76
20	1.94	0.67	2.51	0.44	2.28	0.35	2.10	-0.43	1.72	0.36	2.38	0.90
21	1.96	0.37	2.68	0.86	2.27	-0.24	0.95	-0.99	1.91	0.43	2.35	0.61
22	2.82	1.16	2.78	1.07	1.59	-0.55	1.31	-0.21	1.45	-0.13	2.39	0.37
23	3.10	1.59	2.66	0.78	1.78	-0.17	1.74	0.62	1.57	-0.29	2.16	0.33
24	3.08	0.83	2.86	0.93	2.16	0.48	1.79	0.87	1.93	0.17	2.22	-0.15
25	2.72	0.94	3.02	1.16	1.68	-2.24	1.76	0.02	1.63	-0.18	2.14	0.17
26	3.09	0.95	2.05	-0.84	0.69	-1.47	0.91	-0.81	1.71	-0.22	2.37	0.31
27	2.53	0.62	2.05	0.64	1.79	0.37	0.95	-0.67	2.16	0.50	2.08	0.27
28	2.21	-0.69	2.57	1.53	2.07	0.81	0.87	-1.04	2.01	0.18	1.73	-0.06
29	1.63	0.34	3.13	1.70	3.05	0.22	1.11	-1.03	---	---	2.11	0.86
30	2.48	0.27	2.17	-0.78	2.61	0.62	1.49	-0.43	---	---	1.47	-0.57
31	2.25	0.39	---	---	2.41	0.47	1.91	-0.29	---	---	1.66	0.46
Month	3.10	-0.69	3.27	-1.35	3.05	-2.24	4.57	-1.04	2.50	-2.00	2.98	-0.93

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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
	April		May		June		July		August		September	
1	1.67	0.74	3.22	1.52	2.12	0.35	2.44	0.47	2.03	0.38	2.76	0.93
2	2.02	0.72	2.64	-0.01	1.77	-0.06	2.02	0.21	1.77	0.50	3.08	1.81
3	2.07	0.59	0.86	-0.80	2.57	0.36	1.86	-0.10	1.78	0.70	3.16	-1.83
4	2.55	-0.39	2.42	-0.38	2.34	0.54	1.98	0.19	1.79	0.69	-0.85	-2.02
5	1.36	-0.98	2.15	0.65	1.71	0.19	1.96	0.36	1.83	0.54	-0.01	-2.02
6	2.57	0.46	2.04	0.22	2.41	0.04	2.03	0.66	1.98	0.30	2.09	-0.48
7	2.32	0.43	2.29	0.02	2.20	0.54	2.00	0.80	1.98	0.25	2.07	0.39
8	2.24	0.49	2.37	0.38	2.35	0.85	1.86	0.48	2.01	0.18	2.03	0.43
9	2.38	0.73	2.71	0.84	2.59	1.23	2.06	0.42	1.89	0.15	2.19	0.42
10	2.92	1.16	2.69	1.13	2.37	0.87	2.28	0.37	1.79	0.08	2.12	0.66
11	2.76	0.85	3.31	1.64	2.12	0.58	2.09	0.29	2.01	-0.09	2.06	0.72
12	1.74	-0.43	2.43	1.15	2.24	0.55	1.97	0.10	1.81	0.17	1.78	0.72
13	2.24	0.60	2.38	0.25	2.21	0.39	1.93	-0.14	1.73	0.23	1.66	0.76
14	2.46	1.09	1.09	-0.14	2.13	0.35	1.96	-0.07	1.51	0.15	1.60	0.60
15	2.26	0.40	1.89	-0.54	2.25	0.15	1.79	-0.08	1.55	0.16	1.77	0.10
16	0.87	-0.21	1.71	0.02	2.22	0.05	1.86	0.05	1.51	0.48	2.21	0.82
17	2.77	-0.39	2.52	0.06	2.47	0.42	1.84	0.26	1.51	0.58	1.98	0.79
18	2.81	1.06	2.90	0.69	2.35	0.38	1.69	0.31	1.31	0.60	2.32	0.73
19	2.89	0.71	3.39	1.13	2.19	0.45	2.06	0.53	1.62	0.54	2.40	0.52
20	2.64	0.76	3.73	1.50	2.59	1.01	2.30	1.22	1.81	0.68	1.92	0.67
21	2.76	0.28	3.12	1.36	2.90	1.41	1.71	0.86	1.88	0.56	2.11	0.48
22	2.85	0.80	2.96	1.13	2.17	0.53	1.89	0.69	1.85	0.11	2.08	0.61
23	3.02	0.96	2.90	1.49	2.43	0.97	1.97	0.71	1.80	0.13	1.93	0.58
24	3.17	1.41	2.87	1.50	2.81	0.97	1.88	0.22	1.93	0.25	2.37	0.59
25	3.27	1.65	2.76	1.35	2.52	0.96	1.83	0.05	2.39	0.02	2.43	0.94
26	3.70	1.77	2.04	0.52	2.67	0.80	1.82	-0.01	1.96	0.14	2.38	1.01
27	4.05	0.81	1.99	0.55	2.51	0.80	2.00	0.10	1.66	0.07	2.02	0.80
28	1.62	0.33	2.49	1.08	2.33	0.70	2.43	0.20	1.90	-0.05	1.96	0.30
29	3.02	0.61	3.03	1.16	2.49	0.69	3.08	0.53	2.05	0.41	2.42	0.38
30	3.52	2.01	3.35	1.73	2.41	0.36	2.66	1.01	2.06	0.52	2.13	-0.21
31	---	---	3.17	0.91	---	---	2.19	0.65	2.31	0.83	---	---
Month	4.05	-0.98	3.73	-0.80	2.90	-0.06	3.08	-0.14	2.39	-0.09	3.16	-2.02

	Max	Min
Year	4.57	-2.24

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