

Galveston

COUNTY ROLLED SKETCH NO. 23

Tide Gauge Data, Galveston, TX.

SURVEYED *1937-1955*

BY *National Ocean Survey*

FILED *3-9-76*

counter 45081

TIDE GAUGE DATA, GALVESTON, TEXAS, U. S. COAST & GEODETIC SURVEY
SHOWING THE NUMBER OF DAYS YEARLY WHEN THE TIDE GAUGE RECORDED A
READING HIGHER THAN THE YEARLY AVERAGE MEAN HIGHER HIGH WATER FOR
A 19-YEAR CYCLE 1937-1955 ELEVATION 4.42 ft.

<u>YEAR</u>	<u>NO. DAYS</u>
1937	201
1938	192
1939	159
1940	166
1941	218
1942	253
1943 - only 274 days gauge operating	175
1944	242
1945	271
1946	267
1947	257
1948	307
1949	314
1950	327
1951	284
1952	252
1953	274
1954	235
1955	<u>281</u>

Total number of days available - - - - - 4848

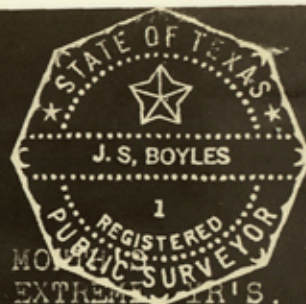
Total number of days the gauge
 showed a reading higher than
 the 19-year average - - - - - 4675



RECEIVED

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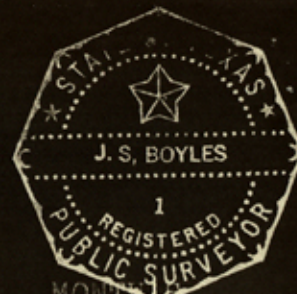
GENERAL LAND OFFICE



TIDE RECORDS DATA - GALVESTON, TEXAS - U. S. COAST & GEODETIC SURVEY

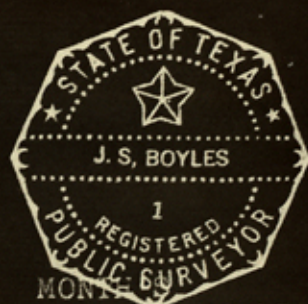
1937	MEAN TIDE LEVEL	MEAN HIGH WATER	MEAN LOW WATER	MEAN HIGHER HIGH WATER	MEAN LOWER LOW WATER	MEAN OF MHHW & MLLW	MONTH'S HIGHEST	DAY	MONTH'S LOWEST	DAY	MEAN RANGE MHHW & MLLW	MONTH'S EXTREM RANGE	MONTH'S HIGH
Jan.	4.01	4.42	3.60	4.53	3.19	3.86	5.0	21	2.1	10	1.34	2.9	
Feb.	4.06	4.48	3.63	4.62	3.20	3.91	5.6	27	1.9	21	1.42	3.7	
March	4.04	4.47	3.60	4.60	3.19	3.90	5.7	24	2.2	16	1.41	3.5	
April	3.83	4.28	3.38	4.40	2.94	3.67	5.1	24	2.0	8	1.46	3.1	
May	3.90	4.30	3.50	4.44	3.03	3.79	5.0	1	2.2	10	1.41	2.8	
June	3.94	4.37	3.52	4.50	3.03	3.77	5.1	8	2.4	6	1.47	2.7	
July	4.04	4.44	3.63	4.53	3.11	3.82	5.2	9	2.4	6	1.42	2.8	
Aug.	4.01	4.43	3.59	4.49	3.12	3.80	4.9	31	2.4	2	1.37	2.5	
Sept.	4.26	4.65	3.88	4.72	3.52	4.12	5.8	18	2.8	1	2.00	3.0	
Oct.	4.28	4.68	3.87	4.82	3.53	4.17	6.3	17	2.1	23	1.29	4.2	6.3
Nov.	3.86	4.31	3.42	4.49	2.96	3.73	5.4	18	1.3	20	1.43	3.1	
Dec.	3.61	4.07	3.15	4.25	2.64	3.45	5.4	16	1.2	18	1.61	3.2	
Totals	47.84	52.90	42.77	54.39	37.46	45.99	64.5		25.0		17.63	37.5	6.3
Average	3.987	4.408	3.564	4.533	3.122	3.833	5.375		2.083		1.469	3.125	
19-yr. mean sea level			3.71										
1938													
Jan.	3.29	2.81	3.77	3.95	2.36	3.16	4.9	9-23	-0.9	25	1.59	5.8	
Feb.	3.50	3.94	3.06	4.04	2.67	3.36	5.3	21	1.2	27	1.37	3.2	
March	4.02	4.43	3.62	4.55	3.32	3.94	5.1	29-30	2.5	11	1.23	2.2	
April	3.92	4.38	3.47	4.54	3.02	3.78	5.3	6	0.0	9	1.52	5.3	
May	4.21	4.67	3.75	4.85	3.23	4.04	6.5	7	2.4	28	1.62	4.1	
June	3.80	4.25	3.35	4.39	2.83	3.61	4.8	11	1.9	28	1.56	2.9	
July	3.64	4.08	3.20	4.17	2.74	3.46	4.6	27	2.3	5	1.43	2.3	
Aug.	4.31	4.71	3.91	4.78	3.43	4.10	5.9	14	2.8	7	1.35	3.1	
Sept.	4.35	4.73	3.97	4.80	3.58	4.19	6.0	10	3.2	15	1.22	2.8	
Oct.	4.48	4.84	4.11	4.91	3.74	4.32	6.7	17	2.8	2	1.17	3.9	6.7
Nov.	3.96	4.42	3.51	4.63	3.09	3.86	6.3	3	1.2	24	1.54	5.1	
Dec.	3.72	4.17	3.78	4.34	2.83	3.58	5.3	25-26	1.7	9	1.51	2.8	
Totals	47.20	51.43	43.50	53.95	36.84	45.40	66.7		21.1		17.11	43.5	6.7
Average	3.933	4.286	3.625	4.496	3.070	3.783	5.558		1.758		1.426	3.625	
19-yr. mean sea level			3.72										

TIDE RECORDS DATA - GALVESTON, TEXAS - U. S. COAST & GEODETIC SURVEY



1939 MONTH	MEAN TIDE LEVEL	MEAN HIGH WATER	MEAN LOW WATER	MEAN HIGHER HIGH WATER	MEAN LOWER LOW WATER	MEAN OF MHHW & MLLW	MONTH'S HIGHEST	DAY	MONTH'S LOWEST	DAY	MEAN RANGE MHHW & MLLW	MONTH'S EXTREME RANGE	YR'S. HIGH
Jan.	3.55	4.01	3.09	4.18	2.61	3.40	5.1	28	0.8	30	1.57	2.0	
Feb.	3.82	4.27	3.36	4.43	2.93	3.68	5.2	27	1.5	3	1.51	3.7	
March	3.88	4.31	3.45	4.44	3.07	3.76	5.0	1-5-29	2.2	13	1.37	2.8	
April	3.93	4.38	3.48	4.51	3.15	3.83	5.4	5	2.0	18	1.36	3.4	
May	3.99	4.43	3.55	4.57	3.11	3.84	5.3	7	2.4	2	1.46	2.9	
June	4.10	4.55	3.65	4.67	3.14	3.90	5.7	19	2.5	30	1.53	3.2	5.7
July	3.66	4.11	3.20	4.24	2.73	3.48	5.5	12-13	1.7	15-16	1.51	3.8	
Aug.	3.58	4.01	3.14	4.06	2.76	3.41	4.5	12	2.3	15	1.30	2.2	
Sept.	4.04	4.44	3.65	4.53	3.33	3.93	5.1	26	2.4	9	1.20	2.7	
Oct.	4.40	4.80	4.00	4.89	3.60	4.24	5.3	15	2.0	31	1.29	3.3	
Nov.	4.13	4.54	3.72	4.67	3.30	3.98	5.7	17	2.2	26	1.37	3.5	5.7
Dec.	3.40	3.87	2.93	4.05	2.45	3.25	5.1	25	1.3	27	1.60	3.8	
Total	46.48	51.72	41.22	53.24	36.18	44.70	62.90		23.30		17.07	37.30	5.7
Average	3.873	4.310	3.435	4.437	3.015	3.725	5.242		1.942		1.423	3.108	
19-yr. mean sea level			3.73										
1940													
Jan.	3.11	3.63	2.59	3.83	2.17	3.00	5.9	6	0.6	24	1.66	5.3	
Feb.	3.04	3.57	2.52	3.77	2.08	2.92	5.7	15	0.5	21	1.69	5.2	
March	3.44	3.90	2.98	4.02	2.57	3.30	4.9	26	1.0	8	1.45	3.9	
April	3.57	4.03	3.11	4.22	2.76	3.49	5.4	6	1.2	13	1.46	3.2	
May	3.64	4.11	3.18	4.27	2.79	3.53	4.8	1	1.6	24	1.48	3.2	
June	3.91	4.35	3.47	4.49	2.99	3.74	5.2	17	2.5	1	1.50	2.7	
July	3.76	4.21	3.30	4.32	2.79	3.56	4.7	5	2.0	3	1.53	2.7	
Aug.	3.79	4.23	3.35	4.34	2.90	3.62	5.0	29	2.1	1	1.44	2.9	
Sept.	4.58	4.96	4.21	5.05	3.88	4.46	6.4	22	3.0	1	1.17	3.4	6.4
Oct.	4.40	4.79	4.00	4.89	3.67	4.28	5.6	5	2.4	20	1.22	3.2	
Nov.	4.27	4.70	3.84	4.84	3.43	4.14	6.3	25	2.3	15	1.41	4.0	
Dec.	4.22	4.66	3.79	4.83	3.35	4.09	5.6	26	1.8	28	1.48	3.8	
Totals	45.73	51.14	40.34	52.87	35.38	44.13	65.50		21.0		17.49	43.50	6.4
Average	3.811	4.262	3.362	4.406	2.948	3.678	5.458		1.750		1.458	3.625	
19-yr. mean sea level			3.72										

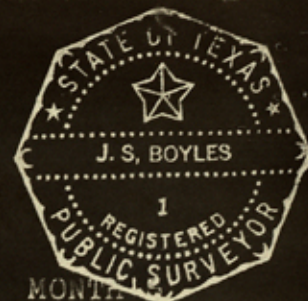
count 15034



TIDE RECORDS DATA - GALVESTON, TEXAS - U. S. COAST & GEODETIC SURVEY

1943	MEAN TIDE LEVEL	MEAN HIGH WATER	MEAN LOW WATER	MEAN HIGHER HIGH WATER	MEAN LOWER LOW WATER	MEAN OF MHHW & MLLW	MONTH'S HIGHEST	DAY	MONTH'S LOWEST	DAY	MEAN RANGE MHHW & MLLW	MONTH'S EXTREME RANGE	YR'S. HIGH
Jan.	3.66	4.11	3.21	4.26	2.76	3.51	6.2	7	1.7	8-19	1.56	4.5	6.2
Feb.	3.60	4.03	3.16	4.17	2.78	3.48	4.8	4-5-10	1.3	14	1.39	3.5	
March	4.04	4.46	3.62	4.57	3.32	3.50	5.3	24	1.6	3	1.25	3.7	
April	4.20	4.60	3.80	4.72	3.43	4.08	5.5	17	2.9	24	1.29	3.6	
May	4.38	4.79	3.96	4.94	3.59	4.27	5.7	10-31	2.8	4-25	1.35	2.9	
June	4.43	4.83	4.03	4.93	3.53	4.23	5.8	3	2.4	29	1.40	3.4	
July													
Aug.													
Sept.													
Oct.	4.44	4.79	4.09	4.89	3.74	4.32	6.0	13	3.1	28-29	1.15	2.9	
Nov.	4.10	4.51	3.68	4.65	3.22	3.99	5.9	7	1.6	8	1.43	4.3	
Dec.	3.88	4.31	3.46	4.48	3.02	3.25	5.8	27	1.8	29	1.46	4.0	
Total	36.73	40.43	33.01	41.61	29.39	34.63	51.0		19.2		12.28	32.8	6.2
Average	4.081	4.492	3.668	4.623	3.266	3.848	5.667		2.133		1.364	3.644	
19-yr. mean sea level													
1944													
Jan.	3.72	4.16	3.28	4.38	2.84	3.61	5.6	7	1.4	9	1.54	4.2	
Feb.	3.86	4.29	3.42	4.44	2.99	3.72	5.7	14	1.9	11	1.45	3.8	
March	4.18	4.58	3.77	4.69	3.42	4.06	5.6	10	2.1	20	1.27	3.5	
April	4.45	4.86	4.04	4.96	3.68	4.32	5.9	30	2.7	3	1.28	3.2	
May	4.76	5.17	4.36	5.29	3.93	4.61	6.4	2	3.2	6	1.36	3.2	
June	4.52	4.89	4.15	5.01	3.67	4.34	5.6	8	3.0	22	1.34	2.6	
July	4.04	4.43	3.65	4.50	3.17	3.84	5.1	5	2.8	16	1.33	2.3	
Aug.	4.06	4.45	3.66	4.55	3.21	3.88	5.4	31	2.6	13	1.34	2.8	
Sept.	4.50	4.87	4.13	4.95	3.76	4.36	7.0	27	2.9	1	1.19	4.1	7.0
Oct.	4.39	4.73	4.09	4.79	3.71	4.25	5.3	5	3.1	21	1.08	2.2	
Nov.	4.34	4.75	3.93	4.94	3.50	4.22	5.7	2	2.4	20-30	1.44	3.3	
Dec.	3.56	4.01	3.10	4.18	2.58	3.38	6.1	4	1.1	14	1.60	5.0	
Total	50.38	55.19	45.58	56.68	40.46	48.59	69.4		29.2		16.22	40.2	7.0
Average	4.198	4.599	3.798	4.723	3.372	4.049	5.783		2.433		1.352	3.350	
19-yr. mean sea level			3.81										

counter 75086

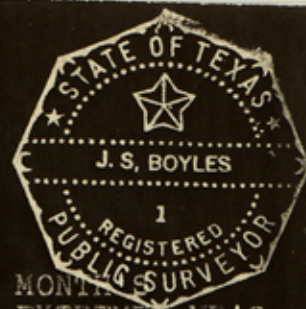


TIDE RECORDS DATA - GALVESTON, TEXAS - U. S. COAST & GEODETIC SURVEY

1951 MONTH	MEAN TIDE LEVEL	MEAN HIGH WATER	MEAN LOW WATER	MEAN HIGHER HIGH WATER	MEAN LOWER LOW WATER	MEAN OF MHHW & MLLW	MONTH'S HIGHEST DAY	MONTH'S LOWEST DAY	MEAN RANGE MHHW & MLLW	MONTH EXTREME RANGE	YR'S. HIGH	
Jan.	3.92	4.36	3.49	4.52	3.00	3.76	5.3	6	1.9	8-15	1.52	3.4
Feb.	3.90	4.31	3.48	4.38	3.02	3.70	5.0	28	1.8	2	1.36	3.2
March	4.08	4.52	3.65	4.63	3.15	3.89	5.8	28	1.5	13	1.48	4.3
April	3.49	4.40	3.58	4.56	3.08	3.82	5.2	30	1.9	13	1.48	3.3
May	4.28	4.70	3.87	4.85	3.34	4.10	5.6	1	2.3	23	1.51	3.3
June	4.09	4.52	3.66	4.66	3.06	3.86	5.1	24	2.1	18	1.60	3.0
July	4.04	4.45	3.64	4.55	3.04	3.80	5.0	1-2	2.4	17-18	1.51	2.6
Aug.	4.09	4.48	3.70	4.58	3.16	3.87	5.3	18-19	2.4	11-12	1.42	2.9
Sept.	4.62	5.00	4.23	5.09	3.81	4.45	5.8	12-13	3.0	10	1.28	2.8
Oct.	4.72	5.08	4.36	5.18	3.91	4.54	5.8	2	3.1	7	1.27	2.7
Nov.	4.18	4.62	3.73	4.79	3.16	3.98	5.9	5	1.7	6	1.63	4.2
Dec.	4.31	4.78	3.85	4.96	3.28	4.12	5.9	17	1.4	15	1.68	4.5
Total	49.72	55.22	45.24	56.75	39.01	47.89	65.7		25.5		17.74	40.2
Average	4.143	4.602	3.770	4.729	3.251	3.991	5.475		2.125		1.478	3.350
19-yr. mean sea level			4.04									5.9
5.9												5.9
1952												
Jan.	4.26	3.83	4.69	4.84	3.39	4.12	5.9	25	1.8	10	1.45	4.1
Feb.	4.02	3.62	4.43	4.63	3.16	3.90	6.1	21-22	1.9	5	1.47	4.2
March	4.38	3.98	4.78	4.92	3.51	4.22	5.5	10	2.3	1	1.41	3.2
April	4.10	3.69	4.50	4.63	3.19	3.91	5.5	12-23	2.0	14	1.44	3.5
May	4.34	3.96	4.72	4.82	3.45	4.14	5.7	24	2.3	10	1.37	3.4
June	4.24	3.86	4.62	4.71	3.32	4.02	5.7	8	2.6	18	1.39	3.1
July	4.52	4.13	4.91	4.99	3.58	4.28	6.8	17	2.7	7	1.41	4.1
Aug.	4.16	3.76	4.56	4.63	3.21	3.92	5.8	28	2.7	3-13-14	1.42	3.1
Sept.	4.88	4.51	5.25	5.31	4.06	4.68	6.6	10-11	2.8	2	1.25	3.8
Oct.	4.23	3.84	4.62	4.70	3.40	4.05	5.2	1-3-5-6	2.8	23	1.30	2.9
Nov.	4.20	3.80	4.61	4.74	3.26	4.00	5.6	29	2.3	20	1.48	3.3
Dec.	4.02	3.58	4.46	4.61	3.03	3.82	5.1	4-19-30	1.3	31	1.58	3.8
Total	51.35	46.56	56.15	57.53	40.56	49.06	69.50		27.5		16.97	42.5
Average	4.279	3.880	4.679	4.794	3.380	4.088	5.792		2.292		1.414	3.542
19-yr. mean sea level			4.05									6.8

counter 45090

TIDE RECORDS DATA - GALVESTON, TEXAS - U. S. COAST & GEODETIC SURVEY



1955 MONTH	MEAN TIDE LEVEL	MEAN HIGH WATER	MEAN LOW WATER	MEAN HIGHER HIGH WATER	MEAN LOWER LOW WATER	MEAN OF MHHW & MLLW	MONTH'S HIGHEST	DAY	MONTH'S LOWEST	DAY	MEAN RANGE MHHW & MLLW	MONTH EXTREME RANGE	YR'S. HIGH
Jan.	3.72	4.16	3.29	4.28	2.75	3.52	5.0	17	0.8	19	1.53	4.2	
Feb.	4.07	4.50	3.64	4.60	3.17	3.88	6.0	4	1.7	11	1.43	4.3	6.0
March	3.96	4.40	3.51	4.52	3.02	3.77	5.4	21	1.6	22	1.50	3.8	
April	4.32	4.73	3.92	4.85	3.50	4.18	5.6	10	2.7	2	1.35	2.9	
May	4.32	4.73	3.92	4.85	3.43	4.14	6.0	26	2.7	21	1.42	3.3	6.0
June	4.32	4.71	3.92	4.79	3.39	4.09	5.5	18	2.9	21	1.40	2.6	
July	4.37	4.76	3.98	4.82	3.47	4.14	5.3	19	2.6	30	1.35	2.7	
Aug.	4.26	4.64	3.88	4.69	3.41	4.05	5.4	28	2.7	27	1.28	2.7	
Sept.	4.84	5.20	4.48	5.26	4.11	4.68	5.6	19	3.6	8	1.15	2.0	
Oct.	4.51	4.89	4.13	4.99	3.70	4.34	6.0	7	2.8	17	1.29	3.2	6.0
Nov.	4.45	4.85	4.05	4.98	3.55	4.26	5.6	18	2.4	29	1.43	3.2	
Dec.	4.04	4.50	3.59	4.63	3.07	3.85	6.0	1	1.9	9	1.56	4.1	6.0
Total	51.18	56.07	46.31	57.26	40.57	48.90	67.40		28.4		16.69	39.0	6.0
Average	4.265	4.673	3.859	4.772	3.381	4.075	5.617		2.367		1.391	3.250	
19-yr. mean sea level			4.10										

number 95092