

Conversion Factors

Multiply	By	To obtain
Length		
foot (ft)	0.3048	meter (m)
inch (in.)	2.54	centimeter (cm)
inch (in.)	25.40	millimeter (mm)
mile (mi)	1.609	kilometer (km)
Area		
square mile (mi ²)	2.590	square kilometer (km ²)
Flow rate		
million gallons per day (Mgal/d)	0.04381	cubic meter per second (m ³ /s)
Subsidence rate		
foot per year (ft/yr)	0.3048	meter per year (m/yr)

Datums
Vertical coordinate information is referenced to the "Fourth General Adjustment of 1922" the National Geodetic Vertical Datum of 1929 (NGVD 29); and the North American Vertical Datum of 1988 (NAVD 88).
Horizontal coordinate information is referenced to the North American Datum of 1983 (NAD 83).

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Kasmarek, M.C., Gabrysch, R.K., and Johnson, M.R., 2009. Estimated land-surface subsidence in Harris County, Texas, 1915-17 to 2001: U.S. Geological Survey Scientific Investigations Map 3097, 2 sheets.

Table 1. Estimated subsidence from 1915-17 to 2001 and measured cumulative clay compaction at 12 borehole extensometers from date of installation to 2001, and related data, Harris County, Texas.
(DEM, digital elevation model; --, not applicable)

Extensometer site number	Extensometer site name	Extensometer installation date	Map subsidence at extensometer site (1915-17 to 2001) (feet)	Extensometer-measured cumulative clay compaction (installation date to 2001) (feet)	Subsidence before extensometer installation (total DEM minus compaction) (feet)	Percentage of subsidence before extensometer installation	Percentage of total period of record (85 years 1917-2001) before extensometer installation	Pre-extensometer period of record, 1917 to extensometer installation date (months)	Extensometer period of record (installation date to 2001) (months)	Annual subsidence rate, pre-extensometer period of record (feet per year)	Annual subsidence (measured compaction) rate, extensometer period of record (feet per year)
LJ-65-12-726	Addicks	7/11/1974	4.8	3.251	1.5	32	68	690	330	0.03	0.118
LJ-65-21-226	Southwest	6/17/1980	5.1	1.558	3.5	69	75	761	259	0.06	0.072
LJ-65-14-746	Northeast	6/24/1980	4.6	.867	3.7	81	75	762	258	0.06	0.040
LJ-65-07-909	Lake Houston	7/22/1980	2.8	.549	2.3	80	75	762	258	0.04	0.026
LJ-65-23-322	Pasadena	10/8/1975	9.4	.319	9.1	97	69	705	315	0.15	0.012
LJ-65-32-428	Clear Lake (deep)	5/26/1976	5.1	.694	4.4	86	70	712	308	0.07	0.027
LJ-65-32-424	Clear Lake (shallow)	5/26/1976	4.7	.683	4.0	85	70	712	308	0.07	0.027
LJ-65-22-622	East End	7/20/1973	6.2	1.311	4.9	79	66	678	342	0.09	0.046
LJ-65-16-931	Baytown (deep)	7/24/1973	6.6	.976	5.6	85	66	678	342	0.10	0.034
LJ-65-16-930	Baytown (shallow)	7/24/1973	6.6	.522	6.1	92	66	678	342	0.11	0.018
LJ-65-32-625	Seabrook	7/20/1973	5.4	1.509	3.9	72	66	678	342	0.07	0.053
LJ-65-32-401	Johnson Space Center	7/24/1973	7.8	2.340	5.5	70	66	678	342	0.10	0.082
Maximum	--	--	9.4	3.251	6.1	97	75	762	342	0.15	0.118
Minimum	--	--	2.8	.319	2.5	32	66	678	258	0.03	0.012
Mean	--	--	5.8	1.215	4.5	77	69	708	312	0.08	0.046
Median	--	--	5.3	.922	4.2	81	68	697	323	0.07	0.037

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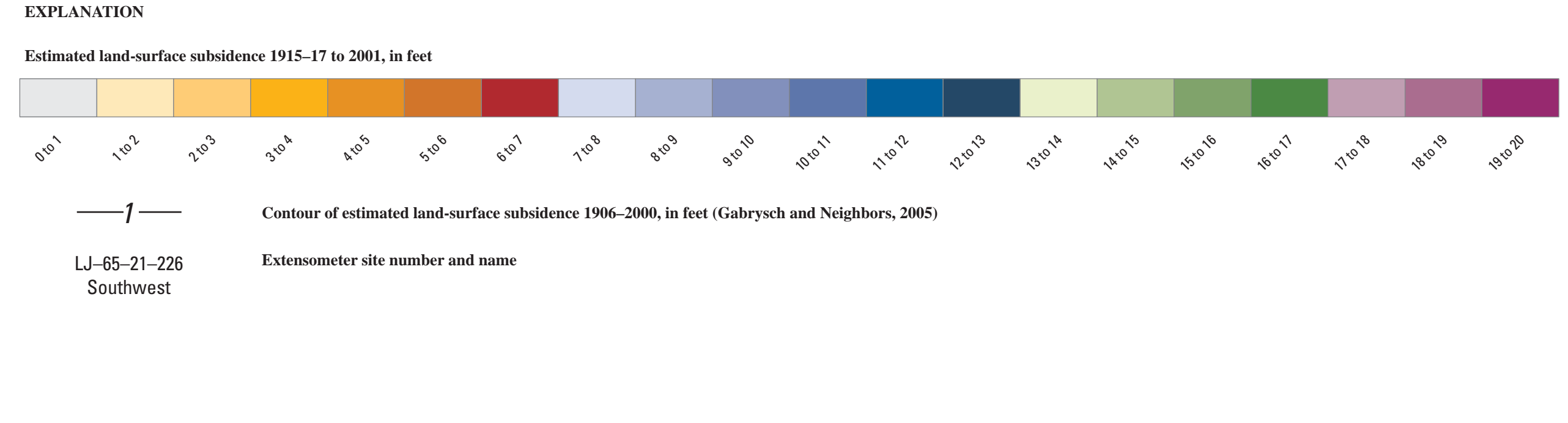


Figure 6. Estimated land-surface subsidence in Harris County, Texas, 1915-17 to 2001, based on difference between 1915-17 historical topographic map digital elevation model and 2001 light detection and ranging (LiDAR) digital elevation model.