

Local Climatological Data

Annual Summary With Comparative Data

1981

HOUSTON, TEXAS



Narrative Climatological Summary

Houston, the largest city in Texas, is located in the flat Coastal Plains, about 50 miles from the Gulf of Mexico and about 25 miles from Galveston Bay. The climate is predominantly marine. The terrain includes numerous small streams and bayous which, together with the nearness to Galveston Bay, favor the development of both ground and advective fogs. Prevailing winds are from the southeast and south, except in January, when frequent passages of high pressure areas bring invasions of polar air and prevailing northerly winds.

Temperatures are moderated by the influence of winds from the Gulf, which results in mild winters and, on the whole, relatively cool summer nights. Another effect of the nearness of the Gulf is abundant rainfall, except for rare extended dry periods. Polar air penetrates the area frequently enough to provide stimulating variability in the weather.

The average number of days with minimum temperatures of 32° or lower is only 7 per year at the City Office, about 15 at William P. Hobby Airport located in southeast Houston, and about 23 at Intercontinental Airport located in north Houston. Most freezing temperatures last only a few hours since they are usually accompanied by clear skies. The extreme persistence of freezing temperatures was in January-February 1951, when the temperature remained 32° or below for 123 consecutive hours.

Monthly rainfall is evenly distributed throughout the year. Annual downtown rainfall has varied from 72.86 inches in 1900 to 17.66 in 1917; 72.86 inches was also recorded at William P. Hobby Airport in 1946. About 75 percent of the years have total precipitation between 30 and 60 inches. Monthly precipitation at the city office has ranged from 17.64 inches to only a trace. Since thundershowers are the main source of rainfall, precipitation may vary substantially in different sections of the City on a day-to-day basis.

Records of sky cover for daylight hours indicate about one-fourth of the days per year as clear, with a maximum of clear days in October and November. Cloudy days are relatively frequent from December to May and partly cloudy days are the more frequent for June through September. Sunshine averaged near 60 percent of the possible amount for the year at the Federal Building for 1938-1960, ranging from 46 percent for the winter months to 69 percent for the summer. Data from the airport locations since 1961 indicate slightly higher percentages of sunshine. Snow rarely occurs; however, on February 14-15, 1895, 20.0 inches of unmelted snow was measured, but 24-hour amounts were not reported. In only one winter season, 1972-73, were as many as three measurable snows recorded.

Heavy fog occurs on an average of 16 days a year and light fog occurs about 62 days a year in the City, but the frequency of heavy fog is considerably higher at William P. Hobby Airport and at Intercontinental Airport.

Destructive windstorms are fairly infrequent, but both thundersqualls and tropical storms occasionally pass through the area.

At the city office, the average date of the last temperature 32° or lower in spring is February 5. The average date of the first 32° temperature in fall is December 11. The average period from the last 32° temperature in spring to the first in fall is 309 days. The latest date of 32° temperature in spring is March 27, 1955, and the earliest date in fall is October 25, 1892.

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NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

ENVIRONMENTAL DATA AND
INFORMATION SERVICE

NATIONAL CLIMATIC CENTER
ASHEVILLE, N.C.

Meteorological Data For The Current Year

Station: HOUSTON, TEXAS INTERCONTINENTAL AIRPORT Standard time used: CENTRAL Latitude: 29° 58' N Longitude: 95° 21' W Elevation (ground): 96 feet Year: 1981
12960

Month	Temperature °F							Degree days Base 65 °F		Precipitation in inches					Relative humidity, pct.				Wind				Number of days										Average station pressure mb Elev. feet m.s.l.									
	Averages			Extremes				Heating	Cooling	Water equivalent			Snow, ice pellets		Hour 00	Hour 06	Hour 12	Hour 18	Resultant		Fastest mile		Percent of possible sunshine	Average sky cover, tenths, sunrise to sunset	Sunrise to sunset			Precipitation .01 inch or more	Snow, ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility 1/4 mile or less	Temperature °F										
	Daily maximum	Daily minimum	Monthly	Highest	Date	Lowest	Date			Total	Greatest in 24 hrs.	Date	Total	Greatest in 24 hrs.					Date	Direction	Speed m.p.h.	Average speed m.p.h.			Speed m.p.h.	Direction	Clear					Partly cloudy		Cloudy	90° and above	32° and below	32° and below	0° and below				
	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year		Year	Year	Year						
JAN	63.8	39.0	51.4	79	29	27	13	416	1	2.32	1.91	19-20	T	T	19	77	83	52	55	03	1.9	6.8	20	13	31	59	6.4	8	9	14	6	0	0	4	0	0	0	3	0	1019.0		
FEB	66.9	43.9	55.4	82	19	20	11	291	28	2.21	0.71	5-6	0.0	0.0	11	79	84	58	57	11	1.0	8.4	26	34	10	45	6.9	6	7	16	8	0	0	4	0	0	6	0	1018.3			
MAR	72.5	49.3	60.9	89	30	36	20	144	23	1.74	0.63	3-4	0.0	0.0	78	85	58	55	09	0.5	8.9	30	31	18	50	7.0	5	7	18	0	0	0	4	0	0	0	0	0	1012.5			
APR	84.4	64.2	74.3	92	30	42	6	6	295	2.69	2.40	23	0.0	0.0	84	88	61	61	14	5.8	9.0	30	33	23	48	8.5	5	6	12	10	0	0	9	1	6	0	0	0	0	1014.2		
MAY	84.6	66.0	75.3	93	26	47	11	1	330	8.75	5.11	3-4	0.0	0.0	85	87	60	64	12	3.8	9.2	25	36	30	55	6.1	7	12	12	10	0	0	9	1	6	0	0	0	1008.8			
JUN	90.5	74.8	82.7	96	9	70	11	0	538	9.65	3.12	4-5	0.0	0.0	86	90	66	68	14	5.2	8.7	25	07	26	50	6.7	5	13	12	17	0	13	0	22	0	0	0	0	1009.8			
JUL	93.6	75.1	84.4	99	24	72	11	0	606	4.43	1.45	5-6	0.0	0.0	84	91	59	66	16	3.2	7.2	28	09	10	63	5.3	10	13	8	12	0	10	1	28	0	0	0	0	1012.2			
AUG	94.5	74.3	84.4	99	23	69	21	0	609	7.01	6.83	30-31	0.0	0.0	84	92	52	56	11	2.3	7.0	21	19	31	66	5.2	12	12	7	3	0	5	0	29	0	0	0	0	1010.8			
SEP	89.5	67.6	78.6	94	13	51	19	0	413	2.91	5.02	31-1	0.0	0.0	90	93	54	61	07	3.3	6.6	22	01	17	79	3.6	16	10	4	4	0	2	2	20	0	0	0	0	0	1012.9		
OCT	81.9	62.6	72.3	94	4	40	27	50	285	6.96	1.43	5	0.0	0.0	89	90	62	73	09	3.5	7.0	23	04	23	45	7.0	5	8	18	13	0	7	3	9	0	0	0	0	0	1013.5		
NOV	75.8	53.0	64.4	84	25	33	21	82	71	5.26	3.62	29-30	0.0	0.0	91	92	59	70	10	0.9	7.3	21	35	19	60	4.9	11	9	10	4	0	1	6	0	0	0	0	0	0	1014.2		
DEC	64.9	44.1	54.5	82	11	30	18	326	7	2.05	0.96	13-14	0.0	0.0	81	84	63	64	04	2.2	8.9	31	21	21	46	6.1	10	6	15	8	0	2	3	0	0	2	0	0	0	0	1014.9	
YEAR	80.2	59.5	69.9	99	AUG 23	FEB 11	20	1316	3206	55.98	6.83	30-31	T	T	FEB 11	84	88	58	63	11	2.3	7.9	31	21	DEC 21	56	6.1	95	113	157	97	0	54	28	118	0	11	0	0	0	0	1013.4

Normals, Means, And Extremes

Month	Temperatures °F							Normal Degree days Base 65 °F		Precipitation in inches					Relative humidity pct.				Wind				Mean number of days										Average station pressure mb Elev. feet m.s.l.																		
	Normal			Extremes				Heating	Cooling	Water equivalent			Snow, ice pellets		Hour 00	Hour 06	Hour 12	Hour 18	Fastest mile		Pct. of possible sunshine	Mean sky cover, tenths, sunrise to sunset	Sunrise to sunset			Precipitation .01 inch or more	Snow, ice pellets 1.0 inch or more	Thunderstorms	Heavy fog, visibility 1/4 mile or less	Temperatures °F																					
	Daily maximum	Daily minimum	Monthly	Second highest	Year	Record lowest	Year			Normal	Maximum monthly	Year	Minimum monthly	Year					Maximum in 24 hrs.	Year			Maximum monthly	Year	Maximum in 24 hrs.					Year	Speed m.p.h.	Direction		Year	Clear	Partly cloudy	Cloudy	90° and above	32° and below	32° and below	0° and below										
	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year		Year	Year	Year	Year	Year	Year	Year	Year										
(a)				12		12					12		12		12		12	12	12	12	12	12	15	12	12	17	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	9							
J	62.6	41.5	52.1	84	1975	17	1979	416	16	3.57	7.68	1974	0.36	1971	2.39	1980	2.0	1973	2.0	1973	84	88	65	70	8.2	NNW	32	31	1978	42	7.1	7	6	18	11	*	2	6	0	*	9	0	0	1017.2							
F	66.0	44.6	55.3	84	1980	20	1981	294	22	3.54	5.23	1974	0.38	1976	1.65	1980	2.8	1973	1.4	1980	84	88	59	60	8.7	SSE	35	29	1974	51	6.3	7	7	14	7	*	1	4	0	0	6	0	0	0	1016.6						
M	71.8	49.3	60.8	90	1974	22	1980	189	59	2.68	8.52	1972	1.21	1971	7.47	1976	0.0	0.0	0.0	0.0	84	88	60	60	9.4	SSE	35	10	1979	47	6.9	7	6	18	10	0	4	3	*	0	1	0	0	0	0	1011.9					
A	79.4	59.3	69.4	92	1981	31	1973	23	155	3.54	10.92	1976	0.57	1978	8.16	1976	0.0	0.0	0.0	0.0	89	91	60	63	9.1	SSE	45	14	1978	52	6.7	7	7	16	7	0	4	3	*	0	*	0	0	0	0	0	1012.0				
M	85.9	65.6	75.8	95	1978	44	1978	0	335	5.10	14.39	1970	0.79	1977	5.11	1981	0.0	0.0	0.0	0.0	90	94	60	64	8.1	SSE	37	30	1979	59	6.1	7	11	13	8	0	7	2	5	0	0	0	0	0	0	0	0	1009.3			
J	91.3	70.9	81.1	103	1980	52	1970	0	483	4.52	13.46	1972	0.26	1970	6.61	1973	0.0	0.0	0.0	0.0	89	93	59	62	7.7	SSE	45	30	1973	66	5.4	10	11	9	0	7	1	20	0	0	0	0	0	0	0	0	0	0	1011.2		
J	93.8	72.8	83.3	104	1980	62	1972	0	567	4.12	8.10	1979	1.42	1971	3.99	1973	0.0	0.0	0.0	0.0	88	93	58	63	6.8	S	46	10	1969	66	5.7	8	14	9	10	0	11	*	26	0	0	0	0	0	0	0	1012.2				
A	94.3	72.4	83.4	107	1980	62	1970	0	570	4.35	7.01	1981	1.40	1980	6.83	1981	0.0	0.0	0.0	0.0	90	94	60	66	5.9	SSE	32	18	1973	63	5.7	7	15	9	10	0	11	1	25	0	0	0	0	0	0	0	1012.0				
S	90.0	68.2	79.2	100	1980	48	1975	0	426	4.65	11.35	1976	0.80	1975	7.98	1976	0.0	0.0	0.0	0.0	92	95	64	71	6.8	SSE	35	10	1973	61	5.8	8	10	12	10	0	7	2	13	0	0	0	0	0	0	0	0	1011.3			
O	83.5	58.3	70.9	94	1981	33	1976	24	207	4.05	9.31	1977	0.05	1978	4.06	1970	0.0	0.0	0.0	0.0	91	93	56	71	6.6	SSE	35	12	1973	63	5.0	12	9	10	7	0	3	4	3	0	0	0	0	0	0	0	0	0	0	1014.4	
N	73.0	49.1	61.1	89	1978	19	1976	155	38	4.03	7.90	1974	1.54	1970	3.62	1981	T	1979	T	1979	88	91	59	74	7.6	SSE	37	33	1972	55	5.4	11	7	12	8	0	2	5	0	0	2	0	0	0	0	0	0	0	1015.6		
D	65.8	43.4	54.6	83	1978	20	1978	333	11	4.04	7.33	1971	0.64	1973	3.43	1971	0.0	0.0	0.0	0.0	85	88	61	72	7.8	SSE	35	31	1973	59	6.5	9	5	17	8	0	2	5	0	0	6	0	0	0	0	0	0	0	0	0	1016.4
YR	79.8	58.0	68.9	107	AUG 1980	JAN 1979	17	1434	2889	48.19	14.39	MAY 1970	0.05	OCT 1978	8.16	APR 1976	2.8	FEB 1973	2.0	JAN 1973	88	91	60	66	7.7	SSE	46	10	JUL 1969	57	6.1	100	108	157	105	*	62	37	92	*	25	0	0	0	0	0	0	0	1013.3		

Means and extremes above are from existing and comparable exposures. Annual extremes have been exceeded at other sites in

Average Temperature

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1942	50.1	53.0	59.6	67.1	74.9	81.2	81.4	82.4	76.2	71.2	63.5	55.8	68.0
1943	52.4	58.3	58.6	70.2	77.0	81.6	83.0	83.6	76.0	68.6	57.8	53.2	68.4
1944	52.3	61.4	61.7	69.5	73.3	82.0	84.4	83.8	79.4	69.9	61.8	52.2	69.3
1945	52.4	58.6	67.8	68.8	73.1	80.9	83.0	83.0	79.9	68.5	65.5	51.4	69.4
1946	51.6	56.4	64.0	70.6	75.4	79.2	82.2	82.8	78.4	72.1	62.2	57.8	69.4
1947	52.2	48.8	56.0	69.4	75.4	81.6	82.5	82.6	80.0	75.0	59.0	55.0	68.1
1948	46.2	59.8	61.7	71.4	76.7	82.4	84.3	84.5	77.3	69.6	60.5	59.0	69.0
1949	52.5	59.0	62.5	66.1	78.0	82.6	83.2	82.0	80.0	71.9	62.8	58.2	69.9
1950	63.1	61.3	60.5	67.0	78.0	80.3	82.3	82.4	79.3	73.0	60.7	55.1	70.2
1951	53.8	55.2	62.9	67.0	75.0	82.1	84.3	85.8	79.6	72.4	58.2	58.1	69.5
1952	62.0	58.8	60.1	64.9	73.3	81.3	82.7	84.6	78.5	65.9	59.0	53.7	65.7
1953	56.6	55.8	68.5	68.7	76.7	83.9	84.1	82.1	79.4	71.5	60.0	51.4	69.9
1954	56.4	60.4	60.9	71.5	72.4	81.3	84.8	84.5	81.4	73.0	60.0	57.4	70.3
1955	54.1	56.1	64.7	71.2	77.0	79.4	83.1	82.8	80.3	70.7	61.5	56.2	69.8
1956	54.3	59.2	62.6	67.7	77.3	80.8	84.3	83.8	80.2	73.3	59.9	59.0	70.2
1957	57.9	62.9	61.2	68.6	76.5	80.5	85.4	83.8	76.9	67.9	61.3	57.3	70.0
1958	50.3	49.9	57.8	69.2	77.2	83.4	84.8	84.2	79.7	69.9	62.5	52.6	68.4
1959	50.3	56.3	60.3	66.7	76.9	82.3	82.3	82.3	80.1	72.2	55.8	55.0	69.4
1960	51.8	49.7	57.4	69.8	73.9	82.4	84.7	82.4	79.5	73.2	64.3	52.8	68.5
1961	49.5	57.9	66.8	68.0	77.0	80.4	82.6	82.2	79.7	70.5	59.8	56.3	69.2
1962	49.3	65.9	58.9	68.1	75.7	79.8	84.1	85.9	81.3	74.8	60.1	54.8	69.7
1963	48.3	52.6	64.9	74.5	77.6	82.0	84.3	84.3	80.4	64.1	47.1	49.6	66.6
1964	51.6	49.4	60.4	70.2	75.8	80.4	83.7	84.4	79.3	67.8	65.0	55.9	68.7
1965	56.0	55.1	58.7	73.5	77.1	83.0	85.1	83.5	81.2	69.4	69.1	58.9	70.9
1966	48.4	52.8	61.5	70.6	75.9	80.0	84.3	82.4	79.6	69.7	64.7	54.2	68.7
1967	54.9	54.5	67.6	75.7	75.9	82.6	82.1	81.1	77.8	70.5	64.1	55.4	70.2
1968	52.7	50.4	59.0	71.1	76.3	80.5	82.5	84.0	78.6	73.5	59.7	55.7	68.7
1969	56.7	54.9	56.1	70.3	75.4	80.0	84.4	83.2	78.2	71.0	58.5	55.2	67.1
1970	46.7	53.9	56.9	69.3	72.1	78.4	81.4	83.1	78.9	66.7	56.9	60.5	67.1
1971	56.7	55.7	59.4	66.6	74.1	80.3	83.9	80.4	78.3	72.0	60.0	59.9	68.9
1972	56.5	55.2	64.3	71.2	73.7	80.8	80.3	80.3	79.6	69.8	54.7	52.0	68.2
1973	47.4	51.4	63.7	68.4	72.8	79.2	83.0	79.5	78.1	71.8	67.3	53.5	67.7
1974	55.0	56.2	66.8	67.2	76.9	79.9	82.8	81.6	74.6	70.8	60.2	54.6	68.9
1975	56.9	55.4	61.1	68.3	75.9	80.0	81.5	81.1	74.9	69.5	59.7	52.7	68.1
1976	50.6	60.1	62.2	67.7	70.5	78.4	80.5	81.4	76.2	60.6	51.8	49.2	65.8
1977	42.7	53.6	60.9	66.9	74.5	81.0	82.4	81.1	80.0	69.2	61.8	57.7	67.5
1978	40.8	45.1	57.3	67.4	76.0	80.4	83.7	83.1	79.3	68.9	64.7	52.9	66.7
1979	44.1	51.7	62.4	68.7	73.1	79.8	82.6	81.5	75.6	70.7	55.7	52.4	66.5
1980	55.0	53.7	60.9	66.2	77.3	85.1	87.5	86.6	83.2	67.8	58.0	55.2	69.7
1981	51.4	55.4	60.9	74.3	75.3	82.7	84.4	84.4	78.6	72.3	64.4	54.5	69.9
RECORD	50.3	54.0	61.4	68.2	74.4	80.5	82.9	82.3	78.1	69.3	59.6	54.3	67.9
MEAN	50.3	54.0	61.4	68.2	74.4	80.5	82.9	82.3	78.1	69.3	59.6	54.3	67.9
MAX	60.6	65.6	72.6	78.8	84.7	90.7	93.6	92.7	88.0	81.3	71.4	65.9	78.8
MIN	40.0	42.1	50.2	57.6	64.0	70.2	72.2	71.8	68.2	57.3	47.7	42.7	57.0

Heating Degree Days

HOUSTON, TX

Season	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
1961-62	0	0	0	16	184	287	480	99	209	32	0	0	1307
1962-63	0	0	0	8	157	313	515	351	88	7	0	0	1439
1963-64	0	0	0	0	108	551	413	446	156	19	0	0	1695
1964-65	0	0	0	31	114	315	300	284	250	0	0	0	1294
1965-66	0	0	2	20	23	212	516	334	144	12	0	0	1263
1966-67	0	0	0	27	99	359	342	298	68	0	0	0	1193
1967-68	0	0	3	18	99	312	390	415	229	17	0	0	1483
1968-69	0	0	0	5	199	297	284	234	281	1	0	2	1303
1969-70	0	0	0	29	238	304	579	309	252	51	12	0	1774
1970-71	0	0	0	72	274	209	298	273	219	72	3	0	1420
1971-72	0	0	0	2	6	195	194	335	295	85	17	0	1109
1972-73	0	0	2	50	320	410	540	379	75	117	5	0	1898
1973-74	0	0	0	8	74	364	330	273	95	60	0	0	1204
1974-75	0	0	0	15	196	336	290	270	179	48	0	0	1334
1975-76	0	0	0	26	217	399	441	178	155	26	7	0	1449
1976-77	0	0	0	173	398	484	687	512	166	25	0	0	2245
1977-78	0	0	0	34	150	365	752	553	250	33	17	0	2154
1978-79	0	0	0	22	111	393	646	376	135	23	2	0	1708
1979-80	0	0	0	27	297	389	308	350	169	45	0	0	1585
1980-81	0	0	0	67	255	323	416	291	144	6	1	0	1503
1981-82	0	0	0	50	82	326							

Cooling Degree Days

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1969	35	13	11	167	328	456	608	569	402	222	48	9	2868
1970	18	3	11	188	236	409	513	567	423	131	38	76	2611
1971	48	18	55	126	292	466	594	485	409	229	52	44	2818
1972	58	20	71	208	275	480	480	482	447	206	17	12	2756
1973	1	4	41	111	253	434	564	458	401	225	151	12	2655
1974	24	33	158	132	374	454	554	519	295	196	60	18	2821
1975	47	8	61	152	342	455	514	505	303	174	68	24	2662
1976	5	43	75	110	182	408	490	520	341	42	9	0	2225
1977	0	5	44	91	302	487	547	565	456	173	58	23	2751
1978	10	5	19	120	369	471	584	568	437	150	108	25	2866
1979	7	13	62	142	261	454	552	519	324	211	26	6	2577
1980	4	31	49	85	388	610	705	677	553	162	52	26	3343
1981	1	28	23	295	330	538	606	609	413	285	71	7	3206

Precipitation

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual
1942	1.29	2.41	2.03	4.94	1.77	3.31	12.38	5.56	2.72	1.57	3.99	3.72	45.69
1943	3.69	1.31	3.98	1.76	3.91	2.43	9.14	1.92	3.19	1.04	12.14	4.79	49.30
1944	10.51	2.15	6.64	1.14	12.44	2.17	0.29	2.81	9.15	0.65	3.71	6.38	57.79
1945	1.97	2.58	2.18	4.33	7.35	5.69	2.29	18.51	3.44	4.44	0.51	7.15	60.44
1946	6.56	2.82	2.48	3.87	9.60	9.77	5.35	4.32	8.84	2.01	14.36	2.88	72.86
1947	4.39	1.09	2.79	2.02	8.54	1.74	2.17	8.86	1.29	1.91	4.58	3.82	43.20
1948	4.44	4.11	1.94	2.19	5.35	2.59	2.74	2.80	2.74	0.92	7.23	1.37	39.42
1949	4.76	5.24	4.43	6.17	1.18	2.55	3.39	3.87	1.31	22.31	0.18	9.80	71.19
1950	4.62	5.00	1.22	4.96	2.49	7.10	3.29	0.72	1.50	0.69	1.17	1.12	33.88
1951	5.37	1.42	4.84	1.28	3.32	3.32	1.06	2.01	5.40	1.18	1.55	2.53	33.28
1952	0.85	7.12	2.16	6.12	3.51	3.74	4.33	1.09	2.62	7	6.58	5.53	43.66
1953	1.57	3.40	0.07	1.27	7.86	3.49	2.06	8.38	0.14	2.62	5.07	7.24	43.37
1954	1.65	0.09	0.89	2.81	2.70	1.24	4.86	3.89	0.49	6.98	1.74	1.42	28.76
1955	5.57	6.03	3.93	3.51	3.54	1.56	2.01	10.10	5.34	0.65	1.06	1.60	41.88
1956	3.96	2.42	0.78	1.84	3.32	4.07	0.38	0.38	1.98	2.64	1.52	5.11	28.32
1957	0.91	2.46	11.42	8.07	1.87	3.96	0						

STATION LOCATION

HOUSTON, TEXAS

Location	Occupied from	Occupied to	Airline distance and direction from previous location	Latitude North	Longitude West	Elevation above								Automatic Observing Equipment	* Type M = AMOS T = AUTOB Remarks
						Sea level	Ground								
						Ground at temperature site	Wind instruments	Extreme thermometers	Psychrometer	Sunshine switch	Tipping bucket rain gage	Weighing rain gage	8" rain gage		
<u>Cotton Station</u>	7/14/81	9/15/09													Location of cotton station not available.
<u>CITY</u>															
4th Floor, Stewart Bldg. Preston & Fannin Sts.	9/16/09	12/13/09		29° 46'	95° 22'	51	122	111	111		104		104		
8th Floor, Stewart Bldg. Preston & Fannin Sts.	12/14/09	2/28/26		29° 46'	95° 22'	51	122	111	111		104		104		
19th Floor, Shell Bldg. Texas & Fannin Sts.	3/01/26	12/22/32	1/8 mi. SW	29° 46'	95° 22'	52	314	293	293		287		287		
22nd Floor, Shell Bldg. Texas & Fannin Sts.	12/23/32	6/21/35		29° 46'	95° 22'	52	314	293	293		287		287		
14th Floor, Shell Bldg. Texas & Fannin Sts.	6/22/35	8/25/38		29° 46'	95° 22'	52	314	293	293		287		287		
10th Floor, Federal Building Franklin & Fannin Sts.	8/26/38	Present	1/4 mi. NE	29° 46'	95° 22'	41	190	162	158		160		159		Temperature and precipitation data telemetered to airport office 3/31/61 to 6/14/67. Summary published through August 1967.
<u>COOPERATIVE</u>															
Harrisburg, Texas	11/01/23	2/29/32		29° 42'	95° 17'	38			4				4		Suburb of the City of Houston.
<u>AIRPORT</u>															
Houston Municipal AP	7/16/30	8/01/40		29° 39'	95° 17'	50	37	30	30				25		
Houston International Airport	8/01/40	7/29/60	1000 ft. S	29° 39'	95° 17'	50	87	28	28				21		Known as Houston Municipal Airport until 4/15/55.
Houston International Airport †William P. Hobby Airport effective 9/1/67.	7/29/60	5/31/69		29° 39'	95° 17'	50	20	23	23		a23		22	4	Moved from third to ground floor of same building and hygrothermometer installed 1500 Feet E of thermometer site. a - Added 9/1/68.
Trailer, NW corner of Houston Intercontinental Airport	6/01/69	8/15/72	23 mi. NNW	29° 59'	95° 22'	96	20	5	5		c4		3	b4	b - Commissioned 11/14/69. c - Commissioned 1/1/70.
Qualitron Building Intercontinental Airport 17795 J. F. Kennedy Blvd.	8/15/72	Present	1.6 mi. SE	29° 58'	95° 21'	96	d20	NA	NA	46	e45	45	45	d4	NA d - Same site as prior to 8/15/72. e - Added 10/15/74.

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