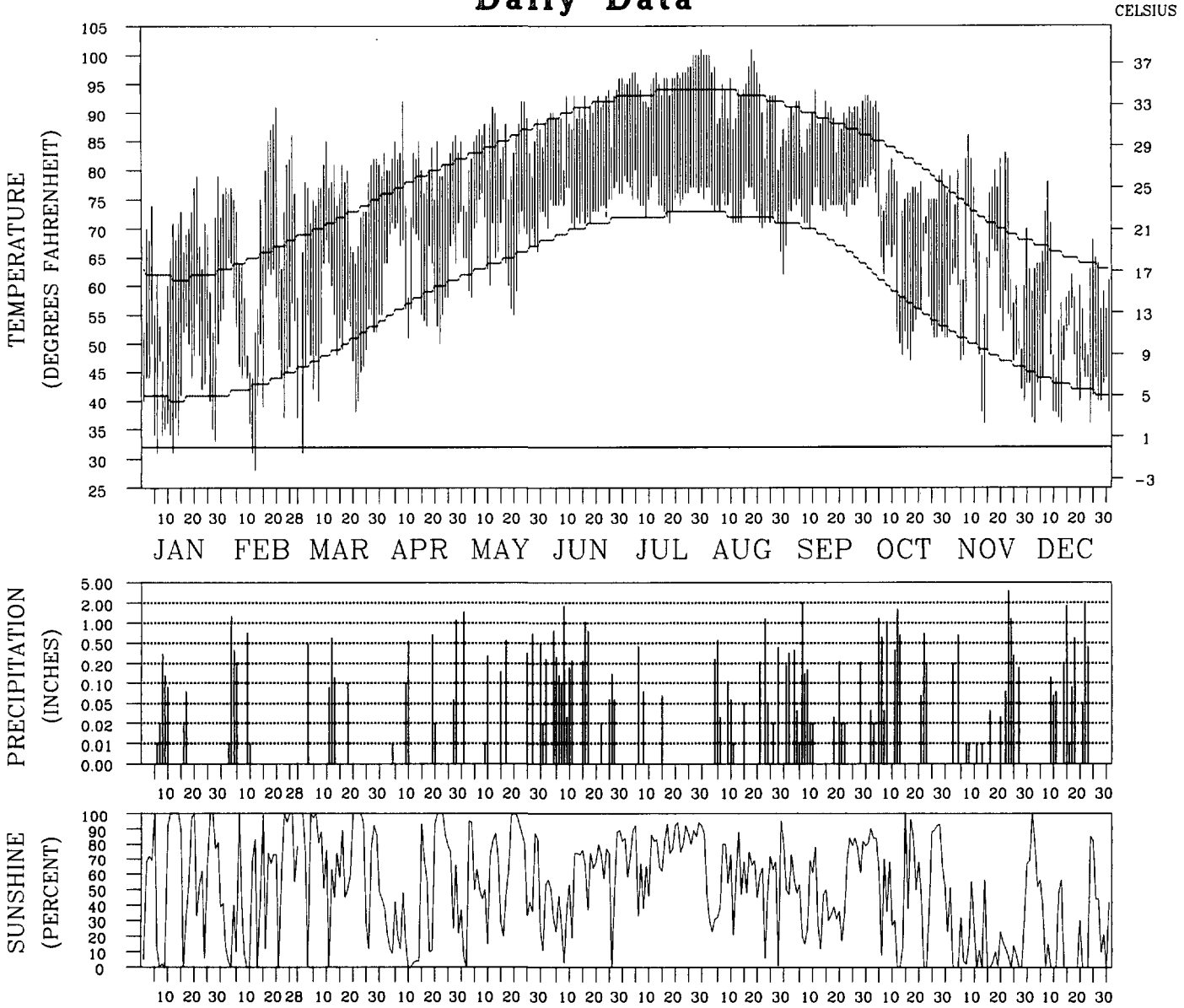


1986 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA HOUSTON, TEXAS



Daily Data



TEMPERATURE DEPICTS NORMAL MAXIMUM, NORMAL MINIMUM AND ACTUAL DAILY HIGH AND LOW VALUES (FAHRENHEIT)
 PRECIPITATION IS MEASURED IN INCHES. SCALE IS NON-LINEAR
 SUNSHINE IS PERCENT OF THE POSSIBLE SUNSHINE

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER, ASHEVILLE, NORTH CAROLINA, 28801

noaa

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

Kenneth D. Walden
 DIRECTOR
 NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 1986

HOUSTON, TEXAS

LATITUDE: 29°58' N. LONGITUDE: 95°21' W ELEVATION: FT. GRND 96 BARO 122 TIME ZONE: CENTRAL WBAN: 12960

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:													
Averages													
-Daily Maximum	65.9	70.3	75.8	80.7	84.6	90.4	96.2	92.5	89.4	78.1	69.6	59.7	79.4
-Daily Minimum	42.8	49.4	50.7	62.7	66.9	73.6	75.5	72.7	74.1	59.6	54.4	43.6	60.5
-Monthly	54.4	59.9	63.3	71.7	75.8	82.0	85.9	82.6	81.8	68.9	62.0	51.7	70.0
-Monthly Dewpt.	41.2	48.2	49.4	60.3	65.9	72.7	72.2	70.9	72.9	60.0	55.6	44.4	59.5
Extremes													
-Highest	79	91	85	92	92	96	101	101	94	93	86	78	101
-Date	29	20	10	8	24	30	30	18	11	1	8	8	AUG 18
-Lowest	31	28	31	50	55	70	71	62	70	47	36	36	28
-Date	12	12	1	22	20	12	18	30	9	17	14	24	FEB 12
DEGREE DAYS BASE 65 °F:													
Heating	326	209	99	11	0	0	0	0	0	28	175	411	1259
Cooling	4	71	52	220	341	518	654	553	510	157	92	4	3176
% OF POSSIBLE SUNSHINE													
	60	50	69	42	59	56	77	54	50	54	15	28	52
AVG. SKY COVER (tenths)													
Sunrise - Sunset	5.2	5.8	4.7	7.3	6.8	6.7	4.8	6.1	7.1	6.5	8.8	7.7	6.5
Midnight - Midnight	4.6	5.7	4.3	7.2	6.4	5.8	3.6	5.0	6.1	5.5	8.3	7.7	5.9
NUMBER OF DAYS:													
Sunrise to Sunset													
-Clear	11	9	11	4	5	2	9	5	0	8	0	5	69
-Partly Cloudy	10	7	12	10	11	17	18	18	17	11	4	6	141
-Cloudy	10	12	8	16	15	11	4	8	13	12	26	20	155
Precipitation													
.01 inches or more	7	6	5	7	9	16	3	13	14	12	13	11	116
Snow, Ice pellets													
1.0 inches or more	0	0	0	0	0	0	0	0	0	0	0	0	0
Thunderstorms													
	0	4	5	4	9	17	7	13	18	4	3	1	85
Heavy Fog, visibility													
1/4 mile or less	4	5	2	1	1	0	0	0	0	0	5	2	20
Temperature °F													
-Maximum													
90° and above	0	1	0	1	4	18	31	21	16	5	0	0	97
32° and below	0	0	0	0	0	0	0	0	0	0	0	0	0
-Minimum													
32° and below	2	2	1	0	0	0	0	0	0	0	0	0	5
0° and below	0	0	0	0	0	0	0	0	0	0	0	0	0
AVG. STATION PRESS. (mb)													
	1019.0	1012.2	1014.9	1011.9	1009.8	1010.5	1013.5	1012.0	1012.5	1014.6	1014.2	1017.6	1013.5
RELATIVE HUMIDITY (%)													
Hour 00													
	75	78	76	79	84	84	77	83	88	89	85	88	82
Hour 06 (Local Time)													
	77	82	82	82	87	91	89	90	91	89	90	89	87
Hour 12													
	52	60	48	59	61	64	52	58	66	63	74	67	60
Hour 18													
	57	57	47	61	65	68	52	58	73	72	80	77	64
PRECIPITATION (inches):													
Water Equivalent													
-Total	0.71	2.74	1.44	2.63	4.29	6.34	0.61	3.27	3.70	6.83	6.66	5.71	44.93
-Greatest (24 hrs)	0.37	1.75	0.72	1.23	1.58	1.91	0.46	1.23	2.01	1.86	4.19	2.56	4.19
-Date	7-8	3-4	11-12	27-28	1	7-8	6	23	6	11-12	23-24	22-23	NOV 23-24
Snow, Ice pellets													
-Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-Greatest (24 hrs)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-Date													
WIND:													
Resultant													
-Direction (!!!)	023	357	137	129	124	151	188	120	131	072	011	030	118
-Speed (mph)	1.9	0.3	2.3	5.6	3.7	2.7	4.6	2.1	4.3	2.3	1.8	3.7	1.9
Average Speed (mph)	7.3	8.9	7.2	9.6	8.1	5.9	6.9	6.1	6.7	6.6	8.0	6.9	7.4
Fastest Obs. 1 Min.													
-Direction (!!!)	21	14	34	34	06	29	19	20	21	18	34	04	20
-Speed (mph)	21	26	21	21	23	24	31	40	23	18	26	25	40
-Date	28	5	4	20	17	11	15	15	1	2	23	22	AUG 15
Peak Gust													
-Direction (!!!)	NW	N	NW	NW	NW	SE	S	S	S	N	S	E	S
-Speed (mph)	33	36	43	32	48	32	52	47	36	35	35	37	52
-Date	26	28	11	19	17	25	15	15	6	12	25	22	JUL 15

(!!!) See Reference Notes on Page 6B
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NORMALS, MEANS, AND EXTREMES

HOUSTON, TEXAS

LATITUDE: 29°58'N LONGITUDE: 95°21' W ELEVATION: FT. GRND 96 BARO 122 TIME ZONE: CENTRAL WBAN: 12960

	(a)	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:														
Normals														
-Daily Maximum		61.9	65.7	72.1	79.0	85.1	90.9	93.6	93.1	88.7	81.9	71.6	65.2	79.1
-Daily Minimum		40.8	43.2	49.8	58.3	64.7	70.2	72.5	72.1	68.1	57.5	48.6	42.7	57.4
-Monthly		51.4	54.5	61.0	68.7	74.9	80.6	83.1	82.6	78.4	69.7	60.1	54.0	68.3
Extremes														
-Record Highest	17	84	91	90	92	95	103	104	107	102	94	89	83	107
-Year		1975	1986	1974	1986	1978	1980	1980	1980	1985	1981	1978	1978	AUG 1980
-Record Lowest	17	12	20	22	31	44	52	62	62	48	33	19	11	11
-Year		1982	1985	1980	1973	1978	1970	1972	1986	1975	1976	1976	1983	DEC 1983
NORMAL DEGREE DAYS:														
Heating (base 65°F)		442	314	175	32	0	0	0	0	0	36	201	349	1549
Cooling (base 65°F)		20	20	51	143	307	468	561	546	402	181	54	8	2761
% OF POSSIBLE SUNSHINE	17	44	50	48	51	58	64	67	64	61	59	49	54	56
MEAN SKY COVER (tenths)	17	6.9	6.2	6.8	6.7	6.2	5.6	5.6	5.6	5.7	5.4	5.8	6.5	6.1
Sunrise - Sunset														
MEAN NUMBER OF DAYS:														
Sunrise to Sunset														
-Clear	17	7.8	7.8	6.5	7.1	6.9	8.4	7.5	6.7	8.4	10.6	9.4	8.2	95.2
-Partly Cloudy	17	5.5	6.1	6.9	6.8	10.8	12.7	15.6	16.2	10.9	8.9	7.2	5.8	113.4
-Cloudy	17	17.7	14.3	17.6	16.2	13.3	8.9	7.9	8.1	10.7	11.5	13.4	17.1	156.6
Precipitation														
.01 inches or more	17	10.1	7.5	9.6	7.1	8.2	8.3	9.2	9.9	9.8	8.3	8.9	8.5	105.5
Snow, Ice pellets														
1.0 inches or more	17	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Thunderstorms	17	1.6	1.6	3.8	3.6	6.9	7.5	10.5	10.9	7.6	3.9	2.6	1.9	62.5
Heavy Fog Visibility														
1/4 mile or less	17	5.5	4.2	3.4	3.1	1.6	0.7	0.3	0.5	1.4	3.1	4.1	4.6	32.6
Temperature °F														
-Maximum														
90° and above	17	0.0	0.1	0.1	0.4	4.4	19.1	26.8	25.6	13.5	2.5	0.0	0.0	92.4
32° and below	17	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6
-Minimum														
32° and below	17	8.4	5.2	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.6	5.2	21.8
0° and below	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG. STATION PRESS. (mb)	14	1017.4	1015.9	1011.9	1011.3	1009.5	1010.8	1012.4	1012.0	1011.7	1014.0	1015.0	1016.7	1013.2
RELATIVE HUMIDITY (%)														
Hour 00	17	82	83	83	86	87	87	86	88	90	89	86	84	86
Hour 06	17	85	86	87	89	92	92	92	93	93	91	89	86	90
Hour 12 (Local Time)	17	64	60	59	59	59	59	58	59	62	58	60	61	60
Hour 18	17	68	60	60	62	63	61	62	64	69	71	74	71	65
PRECIPITATION (inches):														
Water Equivalent														
-Normal		3.21	3.25	2.68	4.24	4.69	4.06	3.33	3.66	4.93	3.67	3.38	3.66	44.76
-Maximum Monthly	17	7.68	5.38	8.52	10.92	14.39	13.46	8.10	9.42	11.35	16.05	8.91	7.33	16.05
-Year		1974	1985	1972	1976	1970	1973	1979	1983	1976	1984	1982	1971	OCT 1984
-Minimum Monthly	17	0.36	0.38	1.21	0.43	0.79	0.26	0.61	1.14	0.80	0.05	1.54	0.64	0.05
-Year		1971	1976	1971	1983	1977	1970	1986	1985	1975	1978	1970	1973	OCT 1978
-Maximum in 24 hrs	17	2.56	2.22	7.47	8.16	5.11	6.61	3.99	6.83	7.98	9.31	4.19	3.43	9.31
-Year		1984	1985	1972	1976	1981	1973	1973	1981	1976	1984	1986	1971	OCT 1984
Snow, Ice pellets														
-Maximum Monthly	17	2.0	2.8											2.8
-Year		1973	1973									T		FEB 1973
-Maximum in 24 hrs	17	2.0	1.4											2.0
-Year		1973	1980									T		JAN 1973
WIND:														
Mean Speed (mph)	17	8.2	8.7	9.3	9.4	8.2	7.6	6.8	6.1	6.9	6.8	7.8	8.0	7.8
Prevailing Direction through 1963		NNW	SSE	SSE	SSE	SSE	SSE	S	SSE	SSE	ESE	SSE	SSE	SSE
Fastest Obs. 1 Min.														
-Direction (!!!)	17	31	26	10	14	23	30	10	08	05	32	33	31	08
-Speed (MPH)	17	32	46	35	45	46	45	46	51	37	35	37	35	51
-Year		1978	1984	1979	1978	1983	1973	1969	1983	1982	1973	1972	1973	AUG 1983
Peak Gust														
-Direction (!!!)	3	N	W	NW	SE	NW	S	S	S	S	34	34	SW	W
-Speed (mph)	3	38	61	44	46	48	52	52	47	36	41	41	39	61
-Date		1985	1984	1984	1984	1986	1985	1986	1986	1986	1985	1985	1984	FEB 1984

(!!!) See Reference Notes on Page 6B.
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PRECIPITATION (inches)

HOUSTON, TEXAS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1957	0.91	2.46	11.42	8.07	1.87	3.96	0.84	3.23	8.29	11.53	6.70	1.83	61.11
1958	4.69	3.59	1.47	2.58	2.40	0.47	6.04	3.16	15.40	2.03	1.32	0.78	43.93
1959	2.70	11.33	1.58	7.76	6.20	2.78	9.67	8.45	4.76	5.76	1.90	5.34	68.23
1960	2.05	3.93	0.38	1.42	0.90	14.66	2.34	7.42	0.61	7.32	3.69	8.97	53.69
1961	4.44	3.88	1.84	2.42	3.59	11.11	10.07	4.17	7.89	0.05	10.20	3.31	62.97
1962	1.73	0.71	0.94	4.81	1.15	7.40	0.07	2.77	3.97	3.12	5.68	4.78	37.13
1963	3.09	2.60	0.55	0.92	0.62	7.79	2.08	1.85	1.94	0.30	5.72	4.83	32.29
1964	2.89	4.97	2.24	1.63	2.25	1.89	1.68	2.61	6.76	2.35	4.28	5.57	39.12
1965	1.87	3.27	0.81	0.95	6.53	3.06	1.57	2.29	3.56	3.09	4.82	6.15	37.97
1966	4.46	7.75	2.20	7.98	11.21	4.42	1.45	7.11	4.01	5.45	1.56	1.53	59.13
1967	2.41	2.17	1.83	4.42	2.54	0.17	7.77	1.60	4.84	3.18	0.50	5.02	36.45
1968	8.02	1.99	2.92	3.02	13.24	11.18	6.49	2.90	3.87	3.91	2.71	1.19	61.44
#1969	2.74	5.31	3.18	3.34	4.73	1.51	3.89	2.67	6.08	3.30	2.13	4.38	43.26
1970	1.93	2.52	5.08	2.21	14.39	0.26	2.28	2.03	6.22	9.09	1.54	0.64	48.19
1971	0.36	2.11	1.21	2.14	3.41	2.42	1.42	6.95	5.17	3.49	1.82	7.33	37.83
1972	3.30	1.20	8.52	2.85	6.99	3.02	2.76	3.90	6.23	3.34	6.49	2.20	50.80
1973	5.00	3.40	3.68	7.15	4.22	13.46	6.77	3.73	9.38	9.31	1.59	2.47	70.16
1974	7.68	0.55	4.20	1.68	5.61	0.59	1.75	6.94	4.51	4.53	7.90	3.35	49.29
1975	1.97	2.63	3.19	4.80	7.57	7.50	5.48	5.72	0.80	5.62	2.08	3.61	50.97
1976	1.39	0.38	1.53	10.92	5.80	2.63	3.93	1.59	11.35	5.83	3.05	6.22	54.62
1977	2.67	1.70	1.95	4.34	0.79	3.55	2.69	4.45	3.92	0.82	5.17	2.89	34.94
1978	7.15	3.07	1.70	0.57	4.15	9.37	2.35	3.66	4.27	0.05	5.99	2.60	44.93
1979	6.30	5.23	2.88	7.79	3.78	1.88	8.10	4.57	9.83	2.80	1.78	4.03	58.97
1980	6.09	2.54	5.39	2.05	5.63	0.92	1.57	1.40	6.00	4.03	2.12	1.25	38.99
1981	2.32	2.21	1.74	2.69	8.75	9.65	4.43	7.01	2.91	6.96	5.26	2.05	55.98
1982	1.82	1.59	1.55	2.28	6.87	1.10	4.32	1.90	0.98	6.64	8.91	4.91	42.87
1983	2.00	3.97	3.85	0.43	7.29	5.37	5.23	9.42	7.23	1.56	3.17	3.69	53.21
1984	3.99	4.37	2.41	0.56	3.13	1.99	3.43	3.52	3.87	16.05	2.28	2.59	48.19
1985	2.10	5.38	4.52	4.31	1.57	5.29	4.93	1.14	4.67	6.54	4.84	3.85	49.14
1986	0.71	2.74	1.44	2.63	4.29	6.34	0.61	3.27	3.70	6.83	6.66	5.71	44.22
Record Mean	3.61	3.09	2.68	3.39	4.77	4.42	4.10	4.13	4.73	4.13	4.11	4.08	47.24

See Reference Notes on Page 6B.
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AVERAGE TEMPERATURE (deg. F)

HOUSTON, TEXAS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
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	69.6	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	68.4
#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	63.9	58.9	68.1	75.7	79.8	84.1	85.9	81.3	74.6	60.1	54.8	69.7
1963	48.3	52.6	64.9	74.5	77.5	82.0	84.3	84.3	80.4	75.0	64.1	47.1	69.6
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	77.6	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	56.9	56.1	70.3	75.4	80.0	84.4	83.2	78.2	71.0	58.5	55.2	68.8
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	64.6	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	70.6	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	53.8	60.9	66.9	74.5	81.0	82.4	83.1	80.0	69.2	61.8	53.7	67.5
1978	40.8	45.1	57.3	67.6	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
1982	52.9	52.1	64.9	67.8	75.3	83.0	85.4	84.1	79.3	69.5	60.9	55.4	69.2
1983	50.1	52.5	58.3	64.0	73.4	79.0	82.2	82.6	76.6	70.1	63.1	45.7	66.5
1984	47.0	54.0	61.9	67.8	74.9	78.6	81.8	82.9	77.4	74.2	60.0	63.4	68.7
1985	45.7	49.6	64.7	70.0	75.6	81.0	81.6	84.2	79.8	72.5	67.0	51.0	68.6
1986	54.4	59.9	63.3	71.7	75.8	82.0	85.9	82.6	81.8	68.9	62.0	51.7	71.4
Record Mean	50.2	53.8	61.7	68.2	74.5	80.5	83.1	82.5	78.3	69.8	60.4	54.0	68.1
Max	60.6	65.2	72.7	78.6	84.6	90.5	93.5	92.8	88.2	81.0	71.5	65.0	78.7
Min	39.8	42.5	50.7	57.8	64.4	70.5	72.6	72.2	68.5	58.5	49.2	43.1	57.5

See Reference Notes on Page 6B.
Page 4B

HEATING DEGREE DAYS Base 65 deg. F

HOUSTON, TEXAS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1957-58	0	0	0	71	185	245	449	417	234	30	0	0	1631
1958-59	0	0	0	48	145	375	452	254	163	58	0	0	1495
1959-60	0	0	0	7	309	306	416	441	260	8	1	0	1748
# 1960-61	0	0	0	17	104	390	473	227	56	61	0	0	1328
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	158	19	0	0	1695
1964-65	0	0	0	31	114	315	300	284	250	0	0	0	1294
1965-66	0	0	0	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	2	6	195	194	315	295	85	17	0	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	312	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	409	363	143	79	1	0	1453
1982-83	0	0	0	53	175	328	457	346	219	96	0	0	1674
1983-84	0	0	6	27	138	606	549	325	150	45	2	0	1848
1984-85	0	0	6	12	204	144	591	432	91	22	0	0	1502
1985-86	0	0	5	17	76	434	326	209	99	1	0	0	1177
1986-87	0	0	0	28	175	411							

See Reference Notes on Page 6B.
Page 5A

COOLING DEGREE DAYS Base 65 deg. F

HOUSTON, TEXAS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL
# 1969	35	13	11	167	328	456	608	569	402	222	48	9	2868
1970	18	3	7	188	238	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	558	519	295	196	60	18	2821
1975	47	38	61	153	342	455	514	505	303	174	68	24	2656
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	86	388	610	705	677	553	162	52	26	3343
1981	1	28	23	295	330	538	606	609	413	285	71	7	3206
1982	39	11	147	170	329	547	641	599	437	199	60	40	3219
1983	0	0	18	76	268	427	541	554	362	196	87	18	2547
1984	0	13	64	135	315	415	527	562	384	302	62	10	2679
1985	0	6	87	180	335	487	521	602	456	257	143	9	3083
1986	4	71	52	220	341	518	654	553	510	157	92	4	3172

See Reference Notes on Page 6B.
Page 5B

SNOWFALL (inches)

HOUSTON, TEXAS

SEASON	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1970-71	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T
1971-72	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T
1972-73	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.8	0.0	0.0	0.0	0.0	4.8
1973-74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1974-75	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T
1975-76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1976-77	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T
1977-78	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.4
1978-79	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T
1979-80	0.0	0.0	0.0	0.0	T	0.0	0.0	1.4	0.0	0.0	0.0	0.0	1.4
1980-81	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	0.0	T
1981-82	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T
1982-83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1983-84	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.3	0.0	0.0	0.0	0.0	1.7
1985-86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1986-87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Record Mean	0.0	0.0	0.0	0.0	T	T	0.2	0.2	T	0.0	0.0	0.0	0.4

See Reference Notes on Page 6B.
Page 6A

REFERENCE NOTES

HOUSTON, TEXAS

GENERAL

T - TRACE AMOUNT.
BLANK ENTRIES DENOTE MISSING/UNREPORTED DATA.
INDICATES A STATION OR INSTRUMENT RELOCATION.
SEE STATION LOCATION TABLE ON PAGE 8.

SPECIFIC

PAGE 2
PM - INCLUDES LAST DAY OF PREVIOUS MONTH

PAGE 3

(a) - LENGTH OF RECORD IN YEARS, ALTHOUGH INDIVIDUAL MONTHS MAY BE MISSING.
* LESS THAN .05
NORMALS - BASED ON THE 1951-1980 RECORD PERIOD.
EXTREMES - DATES ARE THE MOST RECENT OCCURRENCE
WIND DIR. - NUMERALS SHOW TENS OF DEGREES CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM.
RESULTANT DIRECTIONS ARE GIVEN TO WHOLE DEGREES.

EXCEPTIONS

PAGES 4A, 4B, 6A
RECORD MEANS ARE THROUGH THE CURRENT YEAR, BEGINNING IN 1969 FOR TEMPERATURE
1933 FOR PRECIPITATION
1935 FOR SNOWFALL

HOUSTON, TEXAS

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 result in mild winters. 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 variability in the weather.

Records of sky cover for daylight hours indicate about one-fourth of the days per year as clear, with a high number 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 averages nearly 60 percent of the possible amount for the year ranging from 42 percent in January to 67 percent in June.

Heavy fog occurs on an average of 16 days a year and light fog occurs about 62 days a year in the city. 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.

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 *	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	Hygrothermometer		
<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 E5	NA		d - Same site as prior to 8/15/72. e - Added 10/15/74. f - Type change and move 1250 ft. NNW 7/28/82.

SUBSCRIPTION:

Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801

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