

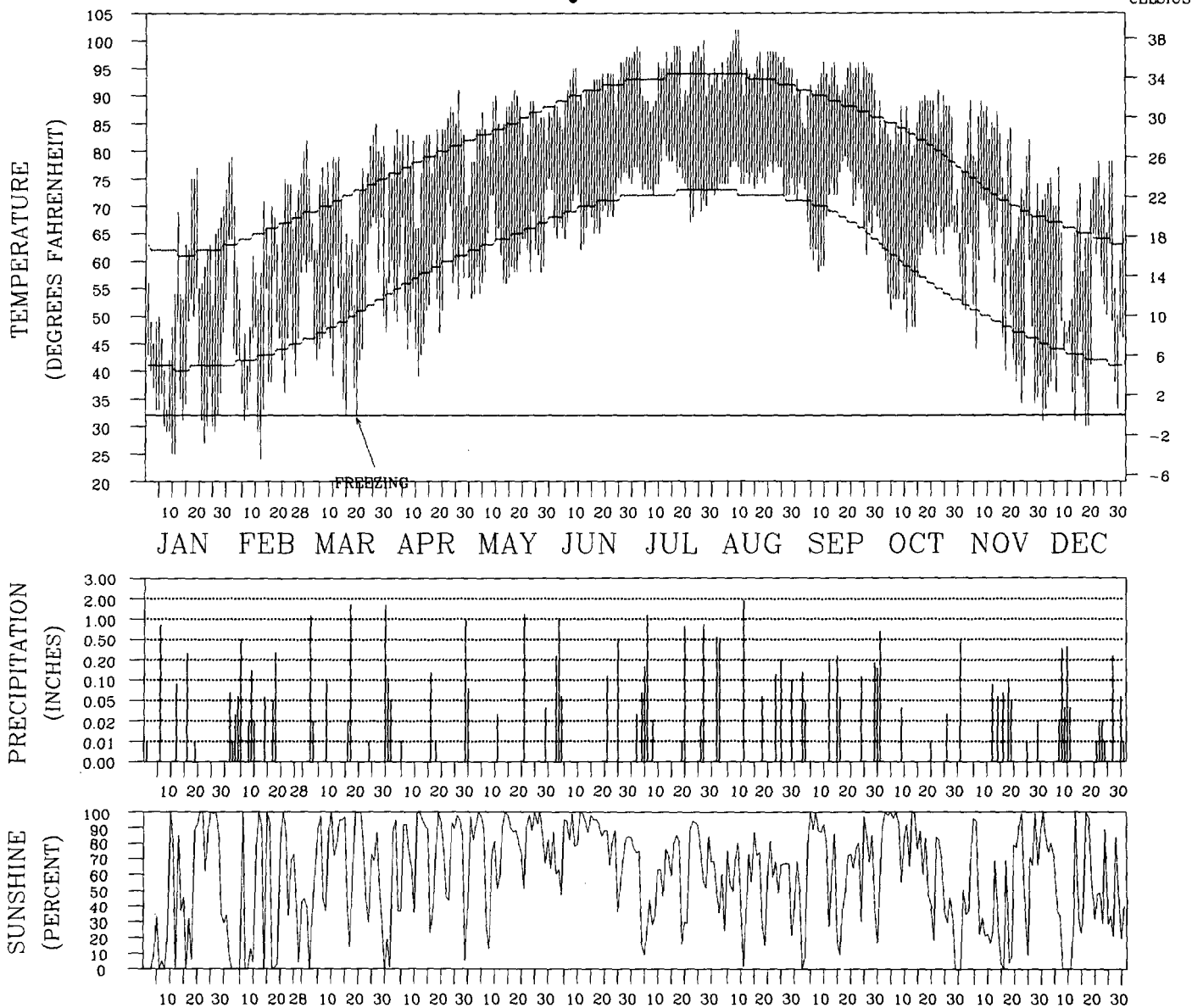
1988 LOCAL CLIMATOLOGICAL DATA

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

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

Kenneth D. Wadsworth
 DIRECTOR
 NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 1988

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	58.3	64.1	71.9	80.3	85.3	92.0	94.4	95.7	92.2	84.2	78.1	66.7	80.3
-Daily Minimum	37.9	44.1	50.6	54.9	61.8	69.0	74.3	74.9	69.3	59.7	53.2	44.1	57.8
-Monthly	48.1	54.1	61.3	67.6	73.6	80.5	84.4	85.3	80.8	72.0	65.7	55.4	69.1
-Monthly Dewpt.	34.9	43.8	49.1	55.3	61.1	68.1	72.5	73.8	67.6	58.0	52.1	45.0	56.8
Extremes													
-Highest	78	82	85	91	91	97	100	102	96	91	89	78	102
-Date	31	29	26	26	17	30	27	9	25	23	8	27	AUG 9
-Lowest	25	24	32	39	53	62	67	71	58	47	34	30	24
-Date	11	12	19	11	1	11	22	31	8	11	28	18	FEB 12
DEGREE DAYS BASE 65 °F:													
Heating	525	331	171	35	0	0	0	0	0	5	120	309	1496
Cooling	7	20	65	121	274	472	609	637	478	229	144	20	3076
% OF POSSIBLE SUNSHINE													
	48	41	62	70	80	82	59	54	61	66	49	48	61
AVG. SKY COVER (tenths)													
Sunrise - Sunset	6.0	6.8	6.3	6.0	4.7	4.7	6.3	6.0	5.0	4.3	5.1	6.6	5.7
Midnight - Midnight	6.0	6.7	6.0	5.5	4.3	4.2	5.5	5.4	4.3	3.9	4.8	6.4	5.3
NUMBER OF DAYS:													
Sunrise to Sunset													
-Clear	10	8	10	9	12	12	4	2	12	14	11	8	112
-Partly Cloudy	3	3	3	7	11	11	14	21	9	9	8	5	104
-Cloudy	18	18	18	14	8	7	13	8	9	8	11	18	150
Precipitation													
.01 inches or more	5	11	8	6	3	5	9	7	8	5	7	12	86
Snow, Ice pellets													
1.0 inches or more	0	0	0	0	0	0	0	0	0	0	0	0	0
Thunderstorms													
	0	1	2	1	2	7	12	10	3	3	0	1	42
Heavy Fog, visibility													
1/4 mile or less	4	2	2	4	3	0	0	0	4	2	1	4	26
Temperature °F													
-Maximum													
90° and above	0	0	0	1	3	22	25	31	27	3	0	0	112
32° and below	0	0	0	0	0	0	0	0	0	0	0	0	0
-Minimum													
32° and below	12	3	2	0	0	0	0	0	0	0	0	4	21
0° and below	0	0	0	0	0	0	0	0	0	0	0	0	0
AVG. STATION PRESS. (mb)													
	1019.6	1017.3	1013.5	1009.1	1010.7	1010.5	1012.2	1009.5	1010.2	1014.6	1011.9	1018.1	1013.2
RELATIVE HUMIDITY (%)													
Hour 00													
	73	79	80	81	81	83	86	85	84	82	75	81	81
Hour 06 (Local Time)													
	78	86	84	88	90	94	93	93	92	89	85	87	88
Hour 12 (Local Time)													
	54	62	54	52	50	51	55	55	51	48	49	57	53
Hour 18													
	57	62	57	54	51	54	60	61	56	54	55	63	57
PRECIPITATION (inches):													
Water Equivalent													
-Total	1.27	1.29	4.88	1.26	1.32	2.00	3.23	3.52	1.20	1.29	0.41	1.26	22.93
-Greatest (24 hrs)	0.86	0.54	1.81	1.01	1.25	1.33	1.21	1.94	0.35	0.70	0.12	0.44	1.94
-Date	6	4-5	30-31	29-30	21	2-3	6	11	29-30	1	18-19	10-11	AUG 11
Snow, Ice pellets													
-Total	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T
-Greatest (24 hrs)	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T
-Date		7											FEB 7
WIND:													
Resultant													
-Direction (!!!)	037	057	128	091	134	122	158	139	102	086	178	060	112
-Speed (mph)	2.8	1.5	2.5	1.3	3.3	3.1	3.8	2.6	3.5	2.7	1.5	2.1	2.0
Average Speed (mph)	8.6	8.3	10.2	8.6	8.1	7.3	8.2	7.0	7.9	7.6	9.4	7.7	8.2
Fastest Obs. 1 Min.													
-Direction (!!!)	33	18	32	31	27	12	04	11	13	27	31	31	27
-Speed (mph)	22	22	29	29	25	23	35	28	23	41	28	29	41
-Date	25	22	29	11	22	22	27	3	17	1	19	27	OCT 1
Peak Gust													
-Direction (!!!)	NW	NW	NW	NW	W	SW	NE	NE	E	W	NW	NW	W
-Speed (mph)	35	38	41	44	33	38	41	52	41	58	45	35	58
-Date	25	11	17	11	22	2	27	2	15	1	19	27	OCT 1

(!!!) See Reference Notes on Page 68

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	19	84	91	90	95	95	103	104	107	102	94	89	83	107
-Year		1975	1986	1974	1987	1978	1980	1980	1980	1985	1981	1988	1978	AUG 1980
-Record Lowest	19	12	20	22	31	44	52	62	62	48	33	19	11	11
-Year		1982	1985	1980	1987	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	19	44	49	50	53	57	64	66	64	62	60	50	52	56
MEAN SKY COVER (tenths)	19	6.8	6.3	6.7	6.5	6.2	5.6	5.7	5.7	5.6	5.3	5.8	6.6	6.1
Sunrise - Sunset														
MEAN NUMBER OF DAYS:														
Sunrise to Sunset														
-Clear	19	8.0	7.7	6.8	7.5	6.8	8.3	7.2	6.3	8.7	11.1	9.4	8.0	95.9
-Partly Cloudy	19	5.3	5.8	6.9	6.8	10.7	12.7	15.6	16.7	10.8	8.8	7.4	5.8	113.4
-Cloudy	19	17.7	14.7	17.3	15.6	13.4	9.0	8.2	8.1	10.4	11.1	13.2	17.2	155.9
Precipitation														
.01 inches or more	19	9.7	8.1	9.3	6.8	8.2	8.6	9.4	9.5	9.7	7.8	8.6	8.9	104.5
Snow, Ice pellets														
1.0 inches or more	19	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	19	1.6	1.6	3.6	3.3	6.9	7.6	10.7	10.4	7.3	3.6	2.6	1.8	61.1
Heavy Fog Visibility														
1/4 mile or less	19	5.5	3.9	3.3	3.0	1.9	0.6	0.3	0.5	1.5	2.9	3.8	4.5	31.7
Temperature F														
-Maximum														
90° and above	19	0.0	0.1	0.1	0.9	4.4	19.1	26.7	26.0	14.5	2.4	0.0	0.0	94.2
32° and below	19	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5
-Minimum														
32° and below	19	8.4	4.8	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.5	5.0	21.2
0° and below	19	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)	16	1017.4	1015.7	1012.0	1011.3	1009.6	1010.8	1012.4	1011.8	1011.6	1014.2	1014.8	1016.6	1013.2
RELATIVE HUMIDITY (%)														
Hour 00	19	82	82	82	85	87	87	86	88	89	89	86	84	86
Hour 06	19	85	86	87	89	92	92	92	93	93	91	89	86	90
Hour 12 (Local Time)	19	63	60	58	57	59	59	57	58	61	57	59	62	59
Hour 18	19	67	60	59	60	62	61	62	63	67	69	72	71	64
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	19	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	19	0.36	0.38	0.88	0.43	0.79	0.26	0.61	1.14	0.80	0.05	0.41	0.64	0.05
-Year		1971	1976	1987	1983	1977	1970	1986	1985	1975	1978	1988	1973	OCT 1978
-Maximum in 24 hrs	19	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	19	2.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	2.8
-Year		1973	1973									1979		FEB 1973
-Maximum in 24 hrs	19	2.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	2.0
-Year		1973	1980									1979		JAN 1973
WIND:														
Mean Speed (mph)	19	8.2	8.7	9.3	9.2	8.1	7.6	6.9	6.2	6.9	6.9	7.9	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 (!!!)	19	31	26	10	14	23	30	10	08	05	27	33	31	08
-Speed (MPH)	19	32	46	35	45	46	45	46	51	37	41	37	35	51
-Year		1978	1984	1979	1978	1983	1973	1969	1983	1982	1988	1972	1973	AUG 1983
Peak Gust														
-Direction (!!!)	5	N	W	NW	SE	NW	S	S	E	E	W	NW	SW	E
-Speed (mph)	5	38	61	44	46	48	52	52	78	41	58	45	39	78
-Date		1985	1984	1984	1984	1986	1985	1986	1983	1988	1988	1988	1984	AUG 1983

PRECIPITATION (inches)

HOUSTON, TEXAS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
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	11.35	5.83	3.05	6.22	54.62	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	44.93
1987	2.42	4.26	0.88	0.47	5.39	9.31	4.79	1.48	3.46	0.17	3.41	4.56	40.60
1988	1.27	1.29	4.88	1.26	1.32	2.00	3.23	3.52	1.20	1.29	0.41	1.26	22.93
Record Mean	3.55	3.08	2.69	3.30	4.72	4.47	4.09	4.07	4.64	4.00	4.03	4.04	46.67

See Reference Notes on Page 6B.
Page 4A

AVERAGE TEMPERATURE (deg. F)

HOUSTON, TEXAS

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
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	70.0
1987	51.4	56.1	58.9	67.2	77.1	81.3	83.5	86.2	78.9	68.7	60.5	55.6	68.8
1988	48.1	54.1	61.3	67.6	73.6	80.5	84.4	85.3	80.8	72.0	65.7	55.4	69.1
Record Mean	50.2	54.0	61.5	68.1	74.6	80.6	83.1	82.8	78.5	69.8	60.7	54.2	68.2
Max	60.5	65.1	72.6	78.9	84.7	90.6	93.5	93.2	88.5	81.2	71.9	65.1	78.8
Min	39.8	42.8	50.5	57.3	64.5	70.5	72.7	72.5	68.5	58.4	49.4	43.3	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
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	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	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	255	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	11	0	0	1177
1986-87	0	0	0	28	175	411	421	245	196	82	0	0	1558
1987-88	0	0	0	16	185	301	525	331	171	35	0	0	1564
1988-89	0	0	0	5	120	309							

See Reference Notes on Page 6B.
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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	8	61	155	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	100	2879
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
1987	4	4	14	154	383	497	580	661	423	137	54	15	2926
1988	7	20	65	121	274	472	609	637	478	229	144	20	3076

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
1987-88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T
1988-89	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

<p>GENERAL T - TRACE AMOUNT. BLANK ENTRIES DENOTE MISSING/UNREPORTED DATA. # INDICATES A STATION OR INSTRUMENT RELOCATION. SEE STATION LOCATION TABLE ON PAGE 8.</p> <p>SPECIFIC PAGE 2 PM - INCLUDES LAST DAY OF PREVIOUS MONTH</p> <p>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.</p> <p>PAGE 4B MAX AND MIN ARE LONG TERM MEAN DAILY MAXIMUM AND MEAN DAILY MINIMUM TEMPERATURES.</p>	<p>EXCEPTIONS PAGES 4A, 4B, 6A RECORD MEANS ARE THROUGH THE CURRENT YEAR, BEGINNING IN 1969 FOR TEMPERATURE 1933 FOR PRECIPITATION 1935 FOR SNOWFALL</p>
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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											Hygrothermometer
							Ground at temperature site	Wind instruments	Extreme thermometer	Psychrometer	Sunshine Switch	Tipping bucket rain gage	Weighting 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	d4 f5	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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