JULY 2001
LOCAL CLIMATOLOGICAL DATA
NOAA, National Climatic Data Center

HOUSTON, TX
INTERCONTINENTAL AIRPORT (IAH)
Lat: 29°59' N Long: 95°21' W Elev (Ground): 118 Feet
Time Zone: CENTRAL WBAN: 12960 ISSN #:0198–5094

DATE	TEMPERATURE °F MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	DEG DAYS BASE 65° HEATING	COOLING	WEATHER	SNOW/ICE ON GND(IN) 0600 LST DEPTH	1200 LST WATER EQUIV	PRECIPITATION (INCHES) 2400 LST SNOW–FALL	2400 LST WATER EQUIV	PRESSURE (INCHES OF HG) AVERAGE STATION	AVERAGE SEA LEVEL	WIND SPEED = MPH DIR = TENS OF DEGREES RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM 5–SEC SPEED	5–SEC DIR	MAXIMUM 2–MIN SPEED	2–MIN DIR	DATE
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	87	71	79	-3	71	72	0	14	TS TSRA RA	0		0.0	0.09	29.90	30.01	1.8	07	5.5	31	16	26*	16	01
02	91	68*	80	-2	71	72	0	15	TS TSRA RA BCFG BR	0		0.0	1.13	29.96	30.08	1.7	06	3.5	25	11	20	11	02
03	91	69	80	-2	72	74	0	15	TS BR	0		0.0	0.00	30.00	30.12	1.0	09	3.7	31*	34	20	07	03
04	92	71	82	0	73	75	0	17	TS TSRA FG	0		0.0	0.03	30.01	30.12	1.1	17	2.7	16	07	14	17	04
05	94	73	84	2	73	76	0	19	MIFG	0		0.0	0.00	29.95	30.06	2.3	22	3.8	14	16	12	16	05
06	94	75	85	3	74	77	0	20		0		0.0	0.00	29.93	30.04	1.3	19	3.1	16	13	14	13	06
07	93	74	84	2	74	77	0	19		0		0.0	0.00	29.95	30.06	2.8	18	4.1	28	17	18	18	07
08	93	72	83	1	73	76	0	18		0		0.0	0.00	29.94	30.04	3.7	17	4.7	18	13	16	13	08
09	94	73	84	2	73	77	0	19		0		0.0	0.00	29.88	29.99	4.3	19	5.6	14	11	13	11	09
10	95	74	85	3	74	77	0	20		0		0.0	0.00	29.82	29.93	2.6	19	4.6	15	15	13	12	10
11	96	73	85	3	73	77	0	20		0		0.0	0.00	29.81	29.91	2.6	19	4.4	20	15	17	15	11
12	95	75	85	3	74	77	0	20		0		0.0	0.00	29.85	29.96	3.0	21	3.9	15	22	12	23	12
13	96	77	87*	4	74	77	0	22		0		0.0	0.00	29.86	29.97	3.5	20	5.8	17	19	15	18	13
14	93	76	85	2	74	77	0	20	RA	0		0.0	T	29.82	29.92	1.7	21	3.5	15	26	10	22	14
15	93	76	85	2	76	78	0	20	RA	0		0.0	T	29.78	29.88	3.6	14	4.6	18	13	16	13	15
16	95	74	85	2	75	78	0	20	TS	0		0.0	0.00	29.83	29.93	2.5	15	3.6	22	11	18	12	16
17	93	74	84	1	75	78	0	19		0		0.0	0.00	29.88	29.99	4.9	15	5.1	21	12	17	14	17
18	92	75	84	1	75	78	0	19	TSRA BR HZ	0		0.0	0.22	29.87	29.98	2.1	14	3.5	18	14	15	13	18
19	90	73	82	-1	75	77	0	17	TSRA RA BR HZ	0		0.0	0.02	29.88	29.99	2.5	13	3.5	18	07	15	14	19
20	95	75	85	2	76	78	0	20		0		0.0	0.00	29.87	29.98	3.7	18	4.6	18	13	17	13	20
21	97	72	85	2	73	77	0	20		0		0.0	0.00	29.81	29.91	2.6	17	4.6	17	15	15	15	21
22	97*	75	86	3	73	77	0	21		0		0.0	0.00	29.75	29.86	1.7	18	4.5	15	10	13	10	22
23	96	76	86	3	75	78	0	21		0		0.0	0.00	29.74	29.85	3.5	11	5.0	21	13	17	08	23
24	95	74	85	2	74	77	0	20	BR	0		0.0	0.00	29.75	29.86	4.5	11	6.1	24	12	21	11	24
25	96	74	85	2	74	77	0	20	RA BR	0		0.0	T	29.76	29.87	4.2	13	5.8	24	09	21	10	25
26	91	74	83	0	75	77	0	18	TS TSRA RA BR	0		0.0	0.43	29.83	29.94	2.3	15	3.1	28	14	23	15	26
27	83	75	79*	-4	75	76	0	14	RA MIFG BR	0		0.0	0.10	29.91	30.02	3.9	15	5.1	20	17	16	15	27
28	92	74	83	0	75	77	0	18	TS TSRA RA	0		0.0	0.03	29.95	30.06	4.8	16	5.9	25	18	18	19	28
29	94	74	84	1	75	77	0	19		0		0.0	0.00	29.92	30.03	4.6	18	5.5	18	17	14	18	29
30	95	75	85	2	74	77	0	20		0		0.0	0.00	29.90	30.01	6.2	16	6.8	20	17	16	15	30
31	96	75	86	3	74	77	0	21		0		0.0	0.00	29.95	30.06	5.7	16	6.4	21	14	17	14	31
	93.4	73.7	83.6		73.9	76.6	0.0	18.9	< MONTHLY AVERAGES TOTALS–>			0.0	2.05	29.87	29.98	1.4	17	4.6					<– MONTHLY AVERAGES
	0.7	1.3	1.0		<–––––––––––DEPARTURE FROM NORMAL–––––––––––––>								-1.55	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									

DEGREE DAYS

	MONTHLY TOTAL	MONTHLY DEPARTURE	SEASON TO DATE TOTAL	SEASON TO DATE DEPARTURE
HEATING:	0	0	0	0
COOLING:	585	39	1689	174

GREATEST 24–HR PRECIPITATION: 1.13 DATE :02
GREATEST 24–HR SNOWFALL: 0.0 DATE :
GREATEST SNOW DEPTH: 0 DATE :

	SEA LEVEL PRESSURE	DATE	TIME
MAXIMUM	30.19	04	0853
MINIMUM	29.80	23	1553

NUMBER OF DAYS WITH →

MAXIMUM TEMP ≥ 90:	29	MINIMUM TEMP ≤ 32 :	0
MAXIMUM TEMP ≤ 32 :	0	MINIMUM TEMP ≤ 0 :	0
THUNDERSTORMS :	9	HEAVY FOG :	0

PRECIPITATION ≥ 0.01 INCH :	8
PRECIPITATION ≥ 0.10 INCH :	4
SNOWFALL ≥ 1.0 INCH :	0

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX

JULY 2001 IAH WBAN # 12960

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note)	2400 LST
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			Water Equiv.
01												0.09	01													01		0.09
02													02					0.94	0.19	T						02		1.13
03													03													03		0.00
04													04				0.03	T								04		0.03
05													05													05		0.00
06													06													06		0.00
07													07													07		0.00
08													08													08		0.00
09													09													09		0.00
10													10													10		0.00
11													11													11		0.00
12													12													12		0.00
13													13													13		0.00
14												T	14													14		T
15							T						15													15		T
16													16													16		0.00
17													17													17		0.00
18													18		0.22	T										18		0.22
19												T	19	T	0.01	0.01										19		0.02
20													20													20		0.00
21													21													21		0.00
22													22													22		0.00
23													23													23		0.00
24													24													24		0.00
25										T			25													25		T
26											T	0.01	26	0.41	0.01	T										26		0.43
27									T	0.02	0.06	0.02	27	T	T	T	T	T								27		0.10
28													28	0.02	T	0.01	T									28		0.03
29													29													29		0.00
30													30													30		0.00
31													31													31		0.00

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.18	.30	.41	.55	.82	1.08	1.12	1.13	1.13	1.13	1.13	1.13
Ending Date	02	02	02	02	02	02	02	02	02	02	02	02
Ending Time (Hour/Min)	1629	1629	1651	1645	1653	1704	1705	1724	1724	1724	1724	1724

Date and time are not entered for TRACE amounts.

Note : The sum of the hourly totals is given when it differs from the daily total. NWS does not edit ASOS hourly values but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.

REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

* = Extreme for the month (last occurence if more than one)
T = Trace precipitation amount
+ = also occurs on earlier date
FG+ = Heavy fog, visibility .25 miles or less
BLANK entries denote missing or unreported data

Resultant wind is the vector sum of the wind speeds and directions divided by the number of observations.

Wind direction is recorded in tens of degrees (2 digits) clockwise from true north. '00' = calm, 'VR' = variable.

Precipitation is for the 24−hour period ending at the time indicated in the column heading.

Water Equivalent of snow on the ground is reported only when the depth is 2 or more inches.

NORMALS ARE FOR THE YEARS 1961−1990

WEATHER NOTATIONS

QUALIFIER	WEATHER PHENOMENA		
DESCRIPTOR	PRECIPITATION	OBSCURATION	OTHER
BC Patches	DZ Drizzle	BR Mist	DS Duststorm
BL Blowing	GR Hail	DU Widespread Dust	FC Funnel Cloud
DR Low Drifting	GS Small Hail and/or Snow Pellets	FG Fog	+FC Tornado Waterspout
FZ Freezing	IC Ice Crystals	FU Smoke	PO Well−Developed Dust/Sand Whirls
MI Shallow	PL Ice Pellets	HZ Haze	SQ Squalls
PR Partial	RA Rain	PY Spray	SS Sandstorm
SH Shower(s)	SG Snow Grains	SA Sand	GL Glaze
TS Thunderstorm	SN Snow	VA Volcanic Ash	
VC In the Vicinity	UP Unknown Precipitation		

Intensity (as indicated on pages 4 to 6):
'+' = Heavy ' ' = Moderate '−' = Light

HOUSTON, TX
JULY 2001

Ceilometer (30−second) data are used to derive cloudiness at or below 12,000 feet. This cloudiness is the mean cloud cover detected during sunrise to sunset (SR−SS), or midnight to midnight (MN−MN).

Satellite data are used to derive cloudiness above 12,000 feet. Effective Cloud Amount is based on the cloud cover and the transparency of the clouds within the satellite field of view (approx. 31x31 miles).

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet. Both ceilometer and satellite data must be present to compute Sky Condition. Clear = 0−2 oktas, Partly Cloudy = 3−6 oktas, Cloudy = 7−8 oktas.

A Heating (Cooling) Degree Day is the difference between the average daily temperature and 65 degrees F. The HDD season begins July 1, the CDD season begins January 1.

Dew Point is the temperature to which the air must be cooled to achieve 100% relative humidity.
Wet Bulb is the temperature the air would have if cooled to saturation at constant pressure by evaporation of water into it.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

ADDITIONAL NOTES:

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
			SR−SS		MN−MN				
	TOTAL MINUTES	PERCENT POSSIBLE	CEILOMETER	SATELLITE	CEILOMETER	SATELLITE	MINIMUM	MAXIMUM	
01							10.00	10.00	
02							1.50	10.00	
03							6.00	10.00	
04							.50	10.00	
05							9.00	10.00	
06							8.00	10.00	
07							9.00	10.00	
08							10.00	10.00	
09							10.00	10.00	
10							10.00	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							8.00	10.00	
14							9.00	10.00	
15							7.00	10.00	
16							8.00	10.00	
17							7.00	10.00	
18							4.00	10.00	
19							4.00	10.00	
20							10.00	10.00	
21							8.00	10.00	
22							9.00	10.00	
23							10.00	10.00	
24							4.00	10.00	
25							5.00	10.00	
26							3.00	10.00	
27							6.00	10.00	
28							8.00	10.00	
29							10.00	10.00	
30							7.00	10.00	
31							7.00	10.00	
MONTHLY AVGS							7.66	10.00	

SUNSHINE (MINUTES)

Total: Possible:
Percent Possible:

NUMBER OF DAYS WITH:

SKY CONDITION

CLR	PTLY CLDY	CLOUDY	MISSING
			31

MINIMUM VISIBILITY (MILES)

<=0.25	<=3.0	>=7.0
0	1	23

OBSERVATIONS AT 3–HOURLY INTERVALS

HOUSTON, TX

JULY 2001 IAH WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE: OBSERVATION TIME (LST)	SATELLITE: EFF CLD AMT Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE ℉: DRY BULB	TEMPERATURE ℉: DEW POINT	TEMPERATURE ℉: WET BULB	RELATIVE HUMIDITY (PCT)	WIND: SPEED (MPH)	WIND: DIRECTION TENS OF DEG	PRESSURE (INCHES,HG): STATION	PRESSURE (INCHES,HG): SEA LEVEL
					SUNRISE: 0524	**JUL 01**			**SUNSET: 1926**					
03	BKN	250			10.00		71	70	70	96	5	04	29.85	29.96
06	OVC	023			10.00		71	69	70	94	6	36	29.90	30.01
09	BKN	130			10.00		80	73	75	79	5	VR	29.91	30.03
12	OVC	090			10.00		76	70	72	82	7	29	29.90	30.01
15	OVC	130			10.00		77	70	72	79	7	VR	29.91	30.02
18	OVC	250			10.00		76	70	72	82	6	05	29.88	30.00
21	OVC	250			10.00		73	70	71	90	3	04	29.90	30.01
24	OVC	250			10.00		72	70	71	94	5	07	29.93	30.05
					SUNRISE: 0525	**JUL 02**			**SUNSET: 1926**					
03	CLR	NC			6.00	BR	69	69	69	100	3	04	29.92	30.03
06	SCT	NC			10.00	BCFG	69	69	69	100	3	36	29.94	30.06
09	SCT	NC			10.00		81	71	74	72	6	03	29.97	30.08
12	BKN	250			10.00		87	72	77	61	7	VR	29.97	30.09
15	OVC	065			10.00		88	70	76	55	6	09	29.95	30.06
18	OVC	090			9.00	-RA	73	71	72	94	0	00	29.98	30.09
21	SCT	NC			9.00		71	71	71	100	0	00	29.98	30.09
24	BKN	250			7.00		70	70	70	100	0	00	29.98	30.10
					SUNRISE: 0525	**JUL 03**			**SUNSET: 1926**					
03	BKN	250			7.00		70	70	70	100	0	00	29.97	30.08
06	OVC	130			10.00		71	70	70	96	0	00	30.01	30.13
09	BKN	130			10.00		80	74	76	82	5	01	30.05	30.17
12	BKN	250			10.00		87	74	78	65	6	VR	30.03	30.14
15	CLR	NC			10.00		88	69	75	54	0	00	29.98	30.09
18	OVC	250			10.00		84	72	76	67	5	18	29.98	30.10
21	BKN	250			10.00	TS	76	71	73	85	3	17	30.00	30.11
24	BKN	130			10.00		73	72	72	96	3	03	30.00	30.11
					SUNRISE: 0525	**JUL 04**			**SUNSET: 1926**					
03	BKN	250			10.00		72	72	72	100	0	00	30.00	30.11
06	OVC	130			10.00		72	71	71	97	5	03	30.03	30.14
09	BKN	100			10.00		80	72	75	76	0	00	30.06	30.18
12	BKN	250			10.00		86	74	78	67	6	22	30.02	30.14
15	BKN	250			10.00		91	72	78	54	0	00	29.98	30.09
18	BKN	130			10.00		82	74	76	77	3	14	29.97	30.09
21	SCT	NC			10.00		78	75	76	90	3	16	29.97	30.08
24	SCT	NC			9.00		76	74	75	94	3	19	29.98	30.09
					SUNRISE: 0526	**JUL 05**			**SUNSET: 1926**					
03	SCT	NC			9.00		73	73	73	100	3	24	29.97	30.08
06	SCT	NC			10.00	MIFG	74	74	74	100	0	00	29.98	30.09
09	SCT	NC			10.00		84	75	78	74	8	25	30.01	30.12
12	SCT	NC			10.00		89	73	78	59	6	22	29.98	30.10
15	SCT	NC			10.00		92	69	76	47	5	18	29.92	30.03
18	SCT	NC			10.00		92	71	77	51	0	00	29.87	29.98
21	BKN	250			10.00		82	74	76	77	7	19	29.90	30.01
24	FEW	NC			10.00		79	75	76	88	0	00	29.92	30.03
					SUNRISE: 0526	**JUL 06**			**SUNSET: 1926**					
03	FEW	NC			10.00		77	75	76	94	0	00	29.90	30.01
06	OVC	250			9.00		75	74	74	96	0	00	29.95	30.07
09	BKN	250			10.00		83	76	78	79	6	25	29.97	30.08
12	SCT	NC			10.00		90	72	77	56	3	VR	29.97	30.08
15	SCT	NC			10.00		94	72	78	49	5	10	29.92	30.03
18	BKN	250			10.00		90	73	78	58	9	11	29.90	30.01
21	OVC	250			10.00		83	76	78	79	3	19	29.91	30.02
24	BKN	250			10.00		81	74	76	79	0	00	29.94	30.05
					SUNRISE: 0527	**JUL 07**			**SUNSET: 1926**					
03	BKN	250			10.00		76	74	75	94	0	00	29.94	30.05
06	SCT	NC			10.00		74	74	74	100	0	00	29.96	30.07
09	BKN	021			10.00		85	75	78	72	5	VR	29.98	30.09
12	BKN	250			10.00		90	72	77	56	5	VR	29.95	30.06
15	BKN	250			10.00		93	74	79	54	7	11	29.93	30.04
18	BKN	250			10.00		86	74	78	67	7	16	29.91	30.02
21	SCT	NC			10.00		80	74	76	82	5	20	29.92	30.03
24	SCT	NC			10.00		78	73	75	85	3	17	29.95	30.06
					SUNRISE: 0527	**JUL 08**			**SUNSET: 1926**					
03	FEW	NC			10.00		76	72	73	88	3	21	29.94	30.05
06	SCT	NC			10.00		73	72	72	96	0	00	29.97	30.09
09	SCT	NC			10.00		85	75	78	72	3	VR	29.99	30.10
12	BKN	043			10.00		90	72	77	56	7	16	29.98	30.09
15	SCT	NC			10.00		92	73	79	54	6	21	29.91	30.02
18	SCT	NC			10.00		89	75	79	63	12	16	29.86	29.97
21	SCT	NC			10.00		82	74	76	77	5	17	29.89	30.01
24	SCT	NC			10.00		78	73	75	85	3	21	29.91	30.02
					SUNRISE: 0528	**JUL 09**			**SUNSET: 1926**					
03	FEW	NC			10.00		77	73	74	88	3	20	29.91	30.02
06	SCT	NC			10.00		75	73	74	94	0	00	29.90	30.01
09	SCT	NC			10.00		84	75	78	74	9	22	29.92	30.03
12	SCT	NC			10.00		90	72	77	56	6	26	29.91	30.02
15	SCT	NC			10.00		93	71	78	49	6	14	29.85	29.96
18	SCT	NC			10.00		91	73	78	56	8	13	29.80	29.92
21	SCT	NC			10.00		84	74	77	72	9	18	29.83	29.94
24	SCT	NC			10.00		79	75	76	88	3	21	29.84	29.95
					SUNRISE: 0528	**JUL 10**			**SUNSET: 1926**					
03	SCT	NC			10.00		78	75	76	90	3	22	29.82	29.93
06	SCT	NC			10.00		74	73	73	97	0	00	29.84	29.95
09	BKN	250			10.00		85	75	78	72	7	VR	29.85	29.96
12	SCT	NC			10.00		89	72	77	57	5	VR	29.86	29.97
15	BKN	250			10.00		93	70	77	47	3	VR	29.79	29.90
18	SCT	NC			10.00		92	73	78	54	8	14	29.75	29.86
21	SCT	NC			10.00		83	72	75	70	7	16	29.78	29.89
24	FEW	NC			10.00		79	74	75	85	5	19	29.80	29.91
					SUNRISE: 0529	**JUL 11**			**SUNSET: 1925**					
03	CLR	NC			10.00		78	75	76	90	3	21	29.80	29.91
06	SCT	NC			10.00		73	73	73	100	0	00	29.81	29.93
09	SCT	NC			10.00		84	75	78	74	6	26	29.84	29.95
12	SCT	NC			10.00		90	71	77	54	0	00	29.82	29.93
15	BKN	250			10.00		94	69	77	44	6	VR	29.77	29.88
18	SCT	NC			10.00		90	76	80	63	14	14	29.75	29.86
21	SCT	NC			10.00		84	73	76	70	7	18	29.79	29.90
24	SCT	NC			10.00		80	74	76	82	5	18	29.84	29.95
					SUNRISE: 0529	**JUL 12**			**SUNSET: 1925**					
03	FEW	NC			10.00		77	74	75	90	0	00	29.81	29.93
06	SCT	NC			10.00		76	75	75	97	0	00	29.85	29.96
09	BKN	030			10.00		83	75	77	77	6	24	29.89	30.00
12	SCT	NC			10.00		90	72	77	56	3	VR	29.88	29.99
15	SCT	NC			10.00		93	72	78	50	5	17	29.82	29.93
18	SCT	NC			10.00		91	74	79	57	5	19	29.80	29.91
21	FEW	NC			10.00		84	73	76	70	6	19	29.85	29.96
24	CLR	NC			10.00		81	75	77	82	6	19	29.86	29.97

OBSERVATIONS AT 3–HOURLY INTERVALS

HOUSTON, TX

JULY 2001 IAH WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE: OBSERVATION TIME (LST)	SATELLITE: EFF CLD AMT Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE ℉: DRY BULB	TEMPERATURE ℉: DEW POINT	TEMPERATURE ℉: WET BULB	RELATIVE HUMIDITY (PCT)	WIND: SPEED (MPH)	WIND: DIRECTION TENS OF DEG	PRESSURE (INCHES,HG): STATION	PRESSURE (INCHES,HG): SEA LEVEL
					SUNRISE: 0530		**JUL 13**		**SUNSET: 1925**					
03	CLR	NC			10.00		78	75	76	90	3	VR	29.85	29.96
06	FEW	NC			8.00		78	75	76	90	5	VR	29.87	29.98
09	SCT	NC			9.00		85	75	78	72	8	26	29.90	30.01
12	SCT	NC			10.00		91	74	79	57	5	VR	29.90	30.01
15	SCT	NC			10.00		94	71	78	48	0	00	29.85	29.96
18	SCT	NC			10.00		93	74	79	54	10	14	29.80	29.91
21	SCT	NC			10.00		85	75	78	72	10	19	29.82	29.93
24	SCT	NC			10.00		80	74	76	82	3	24	29.85	29.96
					SUNRISE: 0530		**JUL 14**		**SUNSET: 1924**					
03	CLR	NC			10.00		77	74	75	90	0	00	29.84	29.95
06	OVC	100			9.00		78	75	76	90	3	24	29.84	29.95
09	BKN	250			10.00		84	76	78	77	6	VR	29.86	29.98
12	BKN	085			10.00		87	74	78	65	5	21	29.86	29.97
15	BKN	100			10.00		91	71	77	52	7	26	29.79	29.90
18	BKN	250			10.00		91	72	78	54	8	16	29.74	29.85
21	SCT	NC			10.00		80	75	77	85	0	00	29.75	29.86
24	CLR	NC			9.00		78	75	76	90	3	19	29.77	29.88
					SUNRISE: 0531		**JUL 15**		**SUNSET: 1924**					
03	SCT	NC			8.00		77	75	76	94	0	00	29.76	29.87
06	OVC	013			7.00		77	76	76	96	0	00	29.78	29.90
09	BKN	015			10.00		85	77	79	77	6	27	29.81	29.92
12	SCT	NC			10.00		90	74	79	59	5	VR	29.78	29.90
15	BKN	250			8.00		90	77	81	66	14	15	29.74	29.85
18	BKN	250			9.00		87	78	81	75	9	12	29.74	29.85
21	BKN	250			10.00		83	76	78	79	8	13	29.77	29.88
24	SCT	NC			10.00		80	76	77	87	5	17	29.79	29.90
					SUNRISE: 0531		**JUL 16**		**SUNSET: 1924**					
03	BKN	250			10.00		77	74	75	90	3	18	29.79	29.91
06	SCT	NC			8.00		75	74	74	96	0	00	29.82	29.93
09	SCT	NC			10.00		86	75	78	70	3	19	29.85	29.96
12	SCT	NC			10.00		92	75	80	58	6	08	29.84	29.95
15	BKN	250			10.00		94	75	80	54	8	09	29.80	29.91
18	BKN	060			10.00		84	76	78	77	3	15	29.82	29.93
21	BKN	250			10.00		83	75	77	77	7	16	29.83	29.94
24	SCT	NC			10.00		78	76	77	93	0	00	29.84	29.95
					SUNRISE: 0532		**JUL 17**		**SUNSET: 1923**					
03	SCT	NC			9.00		76	75	75	97	0	00	29.84	29.95
06	SCT	NC			7.00		75	74	74	96	0	00	29.88	29.99
09	SCT	NC			10.00		86	75	78	70	0	00	29.92	30.03
12	SCT	NC			10.00		90	74	79	59	5	16	29.90	30.01
15	BKN	250			10.00		93	76	81	58	12	15	29.87	29.98
18	SCT	NC			10.00		89	76	80	65	13	14	29.85	29.96
21	SCT	NC			10.00		82	73	76	74	7	16	29.87	29.98
24	FEW	NC			9.00		78	75	76	90	0	00	29.88	29.99
					SUNRISE: 0532		**JUL 18**		**SUNSET: 1923**					
03	SCT	NC			9.00		76	75	75	97	0	00	29.87	29.98
06	SCT	NC			4.00	BR	75	74	74	96	0	00	29.87	29.98
09	SCT	NC			8.00		86	76	79	72	5	11	29.90	30.01
12	BKN	075			10.00		91	74	79	57	5	35	29.88	29.99
15	BKN	250			8.00		85	77	79	77	5	18	29.87	29.98
18	BKN	250			9.00		86	76	79	72	9	13	29.83	29.95
21	SCT	NC			9.00		81	76	77	85	5	16	29.86	29.97
24	CLR	NC			7.00		78	75	76	90	0	00	29.89	30.01

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE: OBSERVATION TIME (LST)	SATELLITE: EFF CLD AMT Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE ℉: DRY BULB	TEMPERATURE ℉: DEW POINT	TEMPERATURE ℉: WET BULB	RELATIVE HUMIDITY (PCT)	WIND: SPEED (MPH)	WIND: DIRECTION TENS OF DEG	PRESSURE (INCHES,HG): STATION	PRESSURE (INCHES,HG): SEA LEVEL
					SUNRISE: 0533		**JUL 19**		**SUNSET: 1923**					
03	FEW	NC			9.00		74	74	74	100	0	00	29.88	30.00
06	FEW	NC			4.00	BR	74	74	74	100	0	00	29.87	29.99
09	SCT	NC			10.00		86	74	78	67	3	VR	29.91	30.02
12	BKN	070			10.00	-RA	89	74	78	61	8	03	29.90	30.01
15	BKN	250			10.00		85	77	79	77	7	16	29.87	29.99
18	BKN	250			10.00		86	76	79	72	5	14	29.84	29.95
21	SCT	NC			10.00		81	76	77	85	0	00	29.86	29.97
24	FEW	NC			10.00		78	75	76	90	0	00	29.89	30.00
					SUNRISE: 0533		**JUL 20**		**SUNSET: 1922**					
03	FEW	NC			10.00		76	75	75	97	0	00	29.87	29.98
06	SCT	NC			10.00		75	75	75	100	0	00	29.89	30.00
09	BKN	020			10.00		86	77	80	75	6	23	29.92	30.03
12	BKN	250			10.00		91	75	80	59	5	VR	29.90	30.01
15	BKN	250			10.00		88	77	80	70	14	16	29.86	29.97
18	BKN	250			10.00		87	77	80	72	13	13	29.81	29.93
21	SCT	NC			10.00		82	76	78	82	5	18	29.84	29.96
24	FEW	NC			10.00		79	74	75	85	3	19	29.85	29.96
					SUNRISE: 0534		**JUL 21**		**SUNSET: 1922**					
03	CLR	NC			10.00		73	72	72	96	0	00	29.84	29.95
06	FEW	NC			8.00		72	72	72	100	0	00	29.84	29.96
09	SCT	NC			10.00		85	76	79	75	6	VR	29.85	29.96
12	SCT	NC			10.00		92	73	78	54	0	00	29.83	29.94
15	CLR	NC			10.00		96	69	77	42	7	VR	29.77	29.88
18	SCT	NC			10.00		92	75	80	58	13	12	29.73	29.84
21	CLR	NC			10.00		84	77	79	80	7	17	29.77	29.88
24	CLR	NC			10.00		80	75	77	85	5	23	29.77	29.88
					SUNRISE: 0535		**JUL 22**		**SUNSET: 1921**					
03	CLR	NC			10.00		78	75	76	90	0	00	29.76	29.87
06	FEW	NC			9.00		75	75	75	100	0	00	29.77	29.88
09	FEW	NC			10.00		85	73	77	68	5	VR	29.78	29.89
12	SCT	NC			10.00		92	68	75	46	7	23	29.77	29.88
15	FEW	NC			10.00		96	69	77	42	9	10	29.72	29.83
18	SCT	NC			10.00		94	70	77	46	7	12	29.70	29.81
21	FEW	NC			10.00		86	75	78	70	3	19	29.72	29.83
24	FEW	NC			10.00		82	75	77	79	0	00	29.73	29.84
					SUNRISE: 0535		**JUL 23**		**SUNSET: 1921**					
03	CLR	NC			10.00		77	74	75	90	0	00	29.73	29.84
06	SCT	NC			10.00		79	75	76	88	0	00	29.75	29.86
09	SCT	NC			10.00		85	76	79	75	3	VR	29.78	29.89
12	SCT	NC			10.00		92	75	80	58	3	VR	29.75	29.87
15	BKN	250			10.00		96	73	79	48	13	08	29.71	29.82
18	BKN	250			10.00		88	77	80	70	12	13	29.71	29.82
21	SCT	NC			10.00		83	75	77	77	8	13	29.72	29.83
24	FEW	NC			10.00		78	75	76	90	0	00	29.74	29.85
					SUNRISE: 0536		**JUL 24**		**SUNSET: 1920**					
03	CLR	NC			10.00		76	74	75	94	0	00	29.76	29.87
06	BKN	250			4.00	BR	75	74	74	96	3	01	29.77	29.88
09	SCT	NC			9.00		85	76	79	75	0	00	29.79	29.90
12	SCT	NC			10.00		93	72	78	50	9	05	29.76	29.87
15	BKN	250			10.00		94	73	79	51	15	10	29.73	29.84
18	BKN	250			10.00		88	73	77	61	13	13	29.70	29.82
21	FEW	NC			10.00		83	74	77	74	7	14	29.74	29.85
24	FEW	NC			10.00		77	74	75	90	0	00	29.76	29.87

OBSERVATIONS AT 3–HOURLY INTERVALS

HOUSTON, TX

JULY 2001 IAH WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE: OBSERVATION TIME (LST)	SATELLITE: EFF CLD AMT Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE ℉: DRY BULB	TEMPERATURE ℉: DEW POINT	TEMPERATURE ℉: WET BULB	RELATIVE HUMIDITY (PCT)	WIND: SPEED (MPH)	WIND: DIRECTION TENS OF DEG	PRESSURE (INCHES,HG): STATION	PRESSURE (INCHES,HG): SEA LEVEL
					SUNRISE: 0536	JUL 25			SUNSET: 1920					
03	CLR	NC			8.00		75	73	74	94	0	00	29.75	29.87
06	SCT	NC			5.00	BR	75	74	74	96	0	00	29.76	29.87
09	BKN	047			10.00		86	76	79	72	5	34	29.78	29.90
12	BKN	250			10.00		89	74	78	61	3	19	29.77	29.88
15	BKN	250			10.00		93	74	79	54	14	14	29.74	29.85
18	BKN	250			10.00		88	75	79	66	8	16	29.74	29.86
21	BKN	250			10.00		81	74	76	79	6	17	29.78	29.89
24	SCT	NC			10.00		79	75	76	88	3	19	29.77	29.88
					SUNRISE: 0537	JUL 26			SUNSET: 1919					
03	FEW	NC			10.00		76	74	75	94	0	00	29.79	29.90
06	SCT	NC			8.00		75	74	74	96	0	00	29.81	29.92
09	SCT	NC			10.00		85	77	79	77	0	00	29.84	29.95
12	BKN	250			10.00	-TSRA	82	73	76	74	0	00	29.86	29.97
15	BKN	250			10.00		80	75	77	85	0	00	29.84	29.96
18	BKN	130			10.00		85	75	78	72	8	15	29.80	29.92
21	SCT	NC			10.00		80	75	77	85	7	15	29.82	29.93
24	CLR	NC			10.00		77	75	76	94	0	00	29.85	29.97
					SUNRISE: 0538	JUL 27			SUNSET: 1918					
03	SCT	NC			7.00		75	74	74	96	0	00	29.86	29.98
06	BKN	250			9.00	MIFG	78	77	77	97	3	VR	29.89	30.00
09	OVC	023			10.00		80	77	78	90	9	09	29.93	30.05
12	OVC	085			10.00	-RA	78	75	76	90	7	19	29.95	30.06
15	OVC	100			10.00		82	75	77	79	7	16	29.92	30.03
18	OVC	130			10.00		83	75	77	77	7	10	29.88	29.99
21	BKN	250			10.00		79	75	76	88	8	14	29.92	30.03
24	FEW	NC			10.00		76	75	75	97	6	15	29.93	30.05
					SUNRISE: 0538	JUL 28			SUNSET: 1918					
03	SCT	NC			10.00		75	74	74	96	0	00	29.93	30.05
06	SCT	NC			10.00		75	75	75	100	0	00	29.96	30.08
09	BKN	019			10.00		86	77	80	75	8	17	30.00	30.11
12	BKN	035			10.00	TS	87	74	78	65	15	19	29.98	30.09
15	OVC	100			10.00	-RA	80	76	77	87	8	13	29.95	30.06
18	SCT	NC			10.00		86	75	78	70	12	13	29.90	30.01
21	FEW	NC			10.00		81	76	77	85	8	16	29.92	30.03
24	FEW	NC			10.00		79	76	77	90	5	18	29.94	30.06
					SUNRISE: 0539	JUL 29			SUNSET: 1917					
03	CLR	NC			10.00		76	75	75	97	3	16	29.92	30.04
06	SCT	NC			10.00		75	74	74	96	0	00	29.95	30.06
09	BKN	023			10.00		86	76	79	72	7	18	29.95	30.07
12	SCT	NC			10.00		92	74	79	56	8	19	29.93	30.04
15	OVC	250			10.00		89	73	78	59	6	20	29.89	30.00
18	BKN	250			10.00		89	73	78	59	12	14	29.86	29.97
21	BKN	250			10.00		83	76	78	79	6	17	29.89	30.00
24	FEW	NC			10.00		80	75	77	85	5	19	29.89	30.01
					SUNRISE: 0539	JUL 30			SUNSET: 1916					
03	BKN	130			10.00		79	75	76	88	5	18	29.87	29.98
06	SCT	NC			7.00		75	75	75	100	0	00	29.90	30.01
09	SCT	NC			10.00		87	75	78	67	7	VR	29.93	30.04
12	SCT	NC			10.00		92	73	79	54	12	15	29.93	30.04
15	SCT	NC			10.00		94	72	78	49	10	14	29.88	29.99
18	SCT	NC			10.00		90	73	78	58	12	17	29.85	29.96
21	FEW	NC			10.00		82	75	77	79	6	17	29.88	29.99
24	FEW	NC			10.00		79	75	76	88	5	17	29.92	30.03

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE: OBSERVATION TIME (LST)	SATELLITE: EFF CLD AMT Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE ℉: DRY BULB	TEMPERATURE ℉: DEW POINT	TEMPERATURE ℉: WET BULB	RELATIVE HUMIDITY (PCT)	WIND: SPEED (MPH)	WIND: DIRECTION TENS OF DEG	PRESSURE (INCHES,HG): STATION	PRESSURE (INCHES,HG): SEA LEVEL
					SUNRISE: 0540	JUL 31			SUNSET: 1916					
03	CLR	NC			10.00		78	75	76	90	0	00	29.92	30.03
06	FEW	NC			8.00		75	74	74	96	0	00	29.95	30.06
09	FEW	NC			10.00		86	75	78	70	7	18	29.98	30.09
12	BKN	045			10.00		92	73	79	54	6	23	29.97	30.08
15	SCT	NC			10.00		93	74	79	54	13	13	29.93	30.04
18	SCT	NC			10.00		91	72	78	54	12	16	29.91	30.02
21	FEW	NC			10.00		83	75	77	77	9	17	29.95	30.06
24	CLR	NC			10.00		78	75	76	90	3	21	29.96	30.07

3–HOURLY OBSERVATION NOTES

Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8–2/8, SCT = 3/8–4/8, BKN = 5/8–7/8, OVC = 8/8, VV = Vertical Visibilty = 8/8.
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC= No ceiling detected.
& = Original observation contained additional weather elements.
See page 3 for additional notes.

SUMMARY BY HOUR

HOUR (LST)	AVERAGES: CEILOMETER	AVERAGES: EFF CLD AMT	AVERAGES: DRY BULB	AVERAGES: DEW POINT	AVERAGES: WET BULB	AVERAGES: RELATIVE HUMIDITY	AVERAGES: PRESSURE (INCHES,HG): STATION	AVERAGES: PRESSURE (INCHES,HG): SEA LEVEL	AVERAGES: VISIBILITY (MILES)	AVERAGES: WIND SPEED (MPH)	RESULTANT WIND (MPH): SPEED	RESULTANT WIND (MPH): DIRECTION
01			77	74	75	90	29.86	29.98	9.74	2	1	19
02			76	74	75	93	29.86	29.97	9.52	1	1	20
03			76	74	74	94	29.86	29.97	9.42	1	1	19
04			75	74	74	96	29.86	29.98	9.35	1	0	0
05			74	74	74	97	29.87	29.98	9.55	1	0	0
06			75	74	74	97	29.88	29.99	8.52	1	0	0
07			78	75	76	91	29.89	30.00	8.71	1	0	0
08			82	76	78	82	29.91	30.02	9.48	4	1	24
09			84	75	78	74	29.91	30.02	9.87	3	1	22
10			86	74	78	67	29.91	30.02	9.84	5	3	22
11			88	73	78	62	29.91	30.02	9.90	4	2	21
12			89	73	78	60	29.89	30.01	10.00	4	2	19
13			90	72	78	57	29.88	29.99	9.81	4	2	12
14			90	73	78	58	29.87	29.98	9.74	6	4	14
15			90	73	78	58	29.85	29.96	9.87	6	5	14
16			90	73	78	59	29.84	29.95	9.90	7	6	15
17			89	73	78	61	29.83	29.95	9.60	7	6	14
18			88	74	78	65	29.83	29.94	9.90	8	8	14
19			85	75	78	71	29.83	29.94	9.90	8	8	14
20			83	74	77	76	29.84	29.95	9.87	7	6	15
21			81	74	76	80	29.85	29.96	9.94	6	5	17
22			80	74	76	83	29.87	29.98	9.90	5	4	16
23			79	74	76	85	29.87	29.98	9.68	3	3	18
24			78	74	76	88	29.87	29.98	9.71	3	2	18

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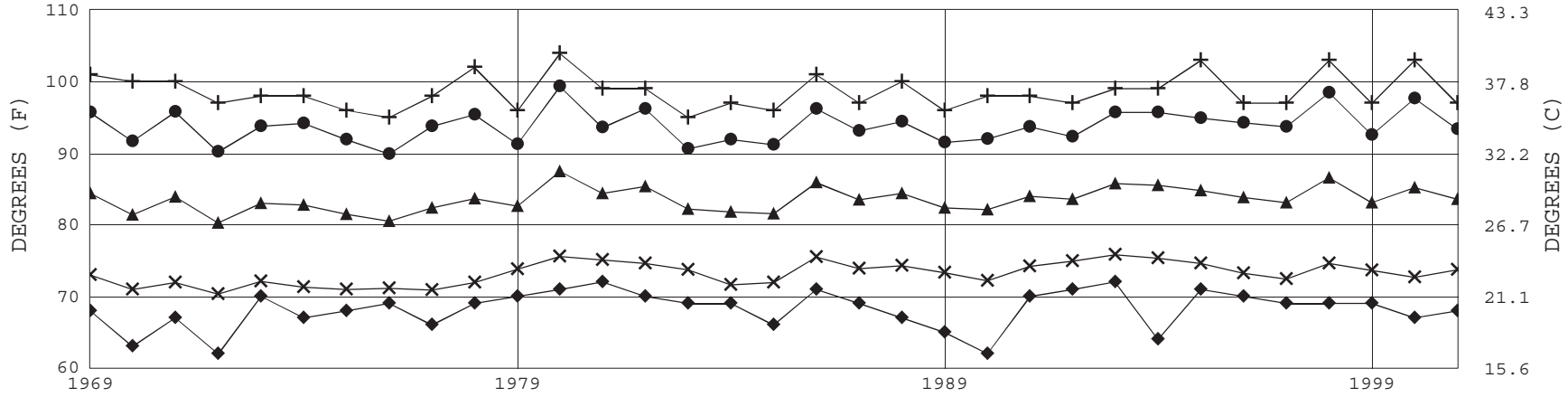
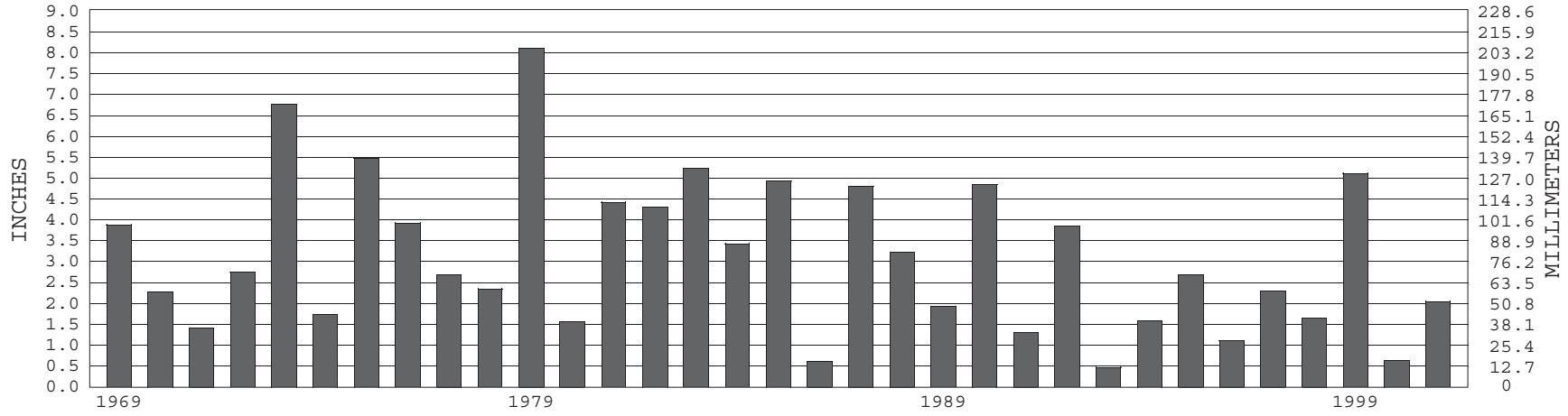
HOUSTON, TX JULY TEMPERATURES



Long-Term (1969-2001) Mean: 83.5 1961-1990 Normal: 82.6

HOUSTON, TX JULY PRECIPITATION



Long-Term (1969-2001) Mean Monthly Total: 3.14 1961-1990 Normal: 3.60

JULY 2001
HOUSTON, TX

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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Thomas R Karl

DIRECTOR

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