



# MARCH 2002

## 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						DEG DAYS BASE 65°		WEATHER	SNOW/ICE ON GND(IN)		PRECIPITATION (INCHES)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								DATE																																			
	MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	HEATING	COOLING		DEPTH	WATER EQUIV	SNOW FALL	WATER EQUIV	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM																																								
																			5-SEC		2-MIN																																						
																			SPEED	DIR	SPEED	DIR																																					
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	60	50	55	-4	54	54	10	0	TSRA RA BR	0		0.0	1.06	29.74	29.85	11.4	09	12.3	31	11	26	10	01																																				
02	57	30	44	-15	39	42	21	0	RA DZ FG+ BR	0		0.0	T	29.84	29.95	9.4	34	12.6	32	33	23	32	02																																				
03	45	27	36*	-24	10	27	29	0		0		0.0	0.00	30.31	30.43	11.5	34	12.0	30	01	23	32	03																																				
04	56	22*	39	-21	18	32	26	0		0		0.0	0.00	30.42	30.53	2.9	21	4.7	22	30	14	14	04																																				
05	62	29	46	-14	35	42	19	0		0		0.0	0.00	30.29	30.40	7.9	13	8.3	26	11	22	11	05																																				
06	75	49	62	2	55	58	3	0	RA BR	0		0.0	T	30.05	30.16	8.9	15	10.3	24	16	21	16	06																																				
07	76	57	67	7	60	62	0	2	BR	0		0.0	0.00	29.97	30.08	11.8	13	12.0	25	13	22	13	07																																				
08	76	64	70	9	66	67	0	5	RA BR	0		0.0	0.01	29.85	29.96	14.2	15	14.5	36	16	29*	15	08																																				
09	71	48	60	-1	41	53	5	0	RA BR	0		0.0	0.16	30.18	30.29	7.2	36	10.9	36*	01	26	31	09																																				
10	63	41	52	-9	26	42	13	0	RA	0		0.0	T	30.35	30.46	6.2	05	10.0	24	02	20	02	10																																				
11	71	54	63	2	55	58	2	0	RA	0		0.0	T	29.90	30.02	7.9	14	10.0	26	18	18	19	11																																				
12	73	49	61	-1	49	55	4	0		0		0.0	0.00	29.85	29.96	6.8	32	8.9	25	23	18	22	12																																				
13	77	46	62	0	53	56	3	0	BR	0		0.0	0.00	29.82	29.93	9.6	13	10.0	22	12	18	12	13																																				
14	80	58	69	7	65	67	0	4	BR	0		0.0	0.00	29.66	29.77	11.6	16	11.7	29	19	25	14	14																																				
15	80	60	70	8	68	70	0	5	RA	0		0.0	T	29.69	29.80	8.4	16	10.4	23	18	18	16	15																																				
16	75	60	68	6	61	63	0	3	RA BR	0		0.0	0.04	29.81	29.92	5.3	02	6.4	17	02	13	03	16																																				
17	82	66	74	11	70	71	0	9	RA FG BR	0		0.0	0.03	29.82	29.93	8.1	16	8.4	20	15	17	15	17																																				
18	82	69	76	13	68	71	0	11	RA BR HZ	0		0.0	T	29.82	29.93	11.9	14	12.2	28	13	23	14	18																																				
19	79	69	74	11	68	70	0	9	RA BR HZ	0		0.0	0.01	29.73	29.84	12.3	14	13.2	33	13	28	13	19																																				
20	72	57	65	2	60	62	0	0	RA BR	0		0.0	0.29	29.87	29.98	8.2	32	9.2	29	32	20	32	20																																				
21	75	52	64	1	46	54	1	0		0		0.0	0.00	30.15	30.27	10.0	36	10.5	24	01	20	01	21																																				
22	62	40	51	-12	37	45	14	0		0		0.0	0.00	30.29	30.41	6.4	34	7.5	29	36	21	35	22																																				
23	69	42	56	-7	46	51	9	0		0		0.0	0.00	30.06	30.18	7.5	12	8.3	23	13	20	12	23																																				
24	76	56	66	2	59	62	0	1		0		0.0	0.00	29.79	29.90	12.2	16	12.3	31	15	26	15	24																																				
25	73	47	60	-4	61	63	5	0	TSRA RA BR HZ	0		0.0	0.36	29.78	29.90	3.7	15	9.7	22	34	17	33	25																																				
26	67	44	56	-8	43	48	9	0	RA BR	0		0.0	0.01	30.07	30.18	8.6	35	8.8	23	01	16	02	26																																				
27	71	42	57	-8	44	50	8	0		0		0.0	0.00	30.04	30.15	3.1	11	6.3	22	09	14	15	27																																				
28	79	50	65	0	62	63	0	0	BR HZ	0		0.0	0.00	29.85	29.96	6.0	14	7.1	20	13	17	13	28																																				
29	83	71	77*	12	68	71	0	12		0		0.0	0.00	29.75	29.86	9.0	19	10.2	25	23	20	15	29																																				
30	86*	66	76	11	67	70	0	11	TS TSRA RA BR HZ	0		0.0	0.39	29.63	29.74	9.5	17	10.6	33	17	24	16	30																																				
31	73	57	65	0	59	61	0	0	RA BR	0		0.0	T	29.81	29.92	7.9	33	9.2	25	31	17	01	31																																				
71.8										50.7		61.3		■ ■		52.0		56.8		5.8		2.3		< MONTHLY AVERAGES TOTALS->				0.0		2.36		29.94		30.05		3.0		13		10.0		<- MONTHLY AVERAGES																	
-1.5				-.6		-1.0		■ ■		<-----DEPARTURE FROM NORMAL----->										-1.00		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																																					
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.06 DATE :01										SEA LEVEL PRESSURE DATE TIME																																							
MONTHLY TOTAL DEPARTURE										SEASON TO DATE TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: 0.0 DATE :										MAXIMUM MINIMUM : 30.62 04 0853																													
HEATING: 181 -6										1398 -165										GREATEST SNOW DEPTH: 0 DATE :										MINIMUM TEMP ≤ 32 : 4										PRECIPITATION ≥ 0.01 INCH : 10																			
COOLING: 72 9										101 2										NUMBER OF DAYS WITH →										MAXIMUM TEMP ≥ 90: 0										MINIMUM TEMP ≤ 0 : 0										PRECIPITATION ≥ 0.10 INCH : 5									
																														THUNDERSTORMS : 3										HEAVY FOG : 1										SNOWFALL ≥ 1.0 INCH : 0									

MARCH 2002  
HOUSTON, TX

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## HOUSTON, TX

MARCH 2002

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	T		T	0.01	0.01	T	T	T	0.11	0.02	0.13	0.47	01	0.04	0.21	0.04	0.01	T	0.01	T					01		1.06		
02							T		T	T			02												02		T		
03													03												03		0.00		
04													04												04		0.00		
05													05												05		0.00		
06								T					06	T											06		T		
07													07												07		0.00		
08													08						T	T	0.01	T			08		0.01		
09	T	T							0.15	0.01			09												09		0.16		
10													10						T						10		T		
11												T	11		T	T	T	T							11		T		
12													12												12		0.00		
13													13												13		0.00		
14													14												14		0.00		
15													15							T	T				15		T		
16	T											T	16					0.01	0.02	0.01					16		0.04		
17	T	0.01	0.01	T	0.01								17												17		0.03		
18													18							T	T		T		18		T		
19													19												19		0.01		
20	0.01	0.02	T	T	0.01	0.18	0.07	T					20	T	T										20		0.29		
21													21												21		0.00		
22													22												22		0.00		
23													23												23		0.00		
24													24												24		0.00		
25												T	25	T	T	T	T	T	0.01	0.13	0.01	T	0.01	0.01	0.19	25		0.36	
26	0.01	T											26												26		0.01		
27													27												27		0.00		
28													28												28		0.00		
29													29												29		0.00		
30		T											30							0.39	T				30		0.39		
31	T												31												31		T		

### MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.13	.17	.27	.32	.38	.43	.49	.57	.59	.60	.65	.79
Ending Date	30	30	30	30	30	01	01	01	01	01	01	01
Ending Time (Hour/Min)	1845	1845	1845	1845	1845	1141	1136	1150	1150	1150	1326	1328

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 occurrence 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 1971–2000

### WEATHER NOTATIONS

QUALIFIER	WEATHER PHENOMENA		
	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	
PR Partial	RA Rain	PY Spray	SQ Squalls
SH Shower(s)	SG Snow Grains	SA Sand	SS Sandstorm
TS Thunderstorm	SN Snow	VA Volcanic Ash	GL Glaze
VC In the Vicinity	UP Unknown Precipitation		

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

## HOUSTON, TX MARCH 2002

Ceilorometer (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:

ERRATA for Jan & Feb 2002 LCD's: To stay consistent with the Heating Degree Day Season (July 2001–June 2002), NCDC reinstalled the 1961–1990 Heating Degree Day Normals and corrected the Jan & Feb 2002 LCD's. The corrected LCD's are available on NCDC's Website. The 1971–2000 Heating Degree Day Normals will go into effect with the July 2002 LCD. The new Cooling Degree Day Normals went into effect with the Jan 2002 LCD.

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR–SS		MN–MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							.75	10.00	
02							.25	10.00	
03							10.00	10.00	
04							9.00	10.00	
05							8.00	10.00	
06							6.00	10.00	
07							.50	10.00	
08							2.50	10.00	
09							4.00	10.00	
10							10.00	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							6.00	10.00	
14							5.00	10.00	
15							8.00	10.00	
16							2.00	10.00	
17							.50	10.00	
18							5.00	10.00	
19							6.00	10.00	
20							3.00	10.00	
21							9.00	10.00	
22							9.00	10.00	
23							8.00	10.00	
24							7.00	10.00	
25							3.00	10.00	
26							6.00	10.00	
27							8.00	10.00	
28							4.00	10.00	
29							8.00	10.00	
30							.25	10.00	
31							4.00	10.00	
<b>MONTHLY AVGS</b>							5.74	10.00	
<b>SUNSHINE (MINUTES)</b>									
Total:					Possible:				
					Percent Possible:				
<b>NUMBER OF DAYS WITH:</b>									
<b>SKY CONDITION</b>									
CLR			PTLY CLDY		CLOUDY		MISSING		
31									
<b>MINIMUM VISIBILITY (MILES)</b>									
<=0.25			<=3.0		>=7.0				
2			7		13				

# OBSERVATIONS AT 3-HOURLY INTERVALS

# HOUSTON, TX

MARCH 2002

IAH

WBAN # 12960

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)							
	SKY COVER	CEILING 100'S OF FT		OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)		DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0647				MAR 01				SUNSET: 1820				SUNRISE: 0641				MAR 07				SUNSET: 1824									
03	OVC	018		10.00		50	48	49	93	9	07	29.87	29.98	03	OVC	065		9.00		57	57	57	100	0	00	29.99	30.10		
06	OVC	006		4.00	BR	52	52	52	100	14	08	29.79	29.91	06	OVC	006		1.00	BR	59	59	59	100	5	09	30.00	30.11		
09	OVC	006		2.50	-RA BR	55	54	54	96	12	09	29.77	29.88	09	OVC	065		3.00	BR	64	60	62	87	10	13	30.02	30.14		
12	OVC	004		1.00	-RA BR	56	56	56	100	15	06	29.74	29.85	12	BKN	250		10.00		71	60	64	68	10	15	30.02	30.13		
15	OVC	006		7.00	-RA	58	58	58	100	8	07	29.66	29.78	15	BKN	250		7.00		75	60	66	60	20	13	29.92	30.03		
18	OVC	008		5.00	-RA BR	57	56	56	96	14	11	29.65	29.77	18	BKN	250		9.00		68	62	64	81	22	13	29.92	30.03		
21	OVC	015		10.00		58	55	56	90	12	11	29.68	29.80	21	OVC	060		10.00		65	56	60	73	12	13	29.94	30.06		
24	OVC	013		10.00		58	55	56	90	16	12	29.64	29.75	24	OVC	026		10.00		65	62	63	90	16	13	29.91	30.02		
SUNRISE: 0646				MAR 02				SUNSET: 1820				SUNRISE: 0639				MAR 08				SUNSET: 1825									
03	OVC	005		10.00		57	56	56	96	9	10	29.60	29.71	03	OVC	006		5.00	BR	65	63	64	93	13	14	29.87	29.98		
06	VV	001		0.25	FG	57	57	57	100	6	04	29.58	29.70	06	OVC	004		4.00	BR	64	64	64	100	9	14	29.86	29.97		
09	OVC	003		2.00	DZ BR	57	57	57	100	12	31	29.74	29.85	09	OVC	006		3.00	BR	66	64	65	93	9	14	29.89	30.01		
12	OVC	011		10.00		39	34	37	82	14	32	29.85	29.97	12	BKN	050		10.00		75	66	69	74	23	16	29.84	29.95		
15	BKN	250		10.00		44	32	39	63	16	32	29.89	30.01	15	OVC	080		10.00		76	65	69	69	21	15	29.76	29.88		
18	BKN	250		10.00		36	26	32	67	12	34	29.99	30.10	18	OVC	023		10.00		74	67	69	79	15	16	29.79	29.91		
21	BKN	150		10.00		32	23	29	69	10	34	30.07	30.19	21	OVC	015		7.00	-RA	71	69	70	94	14	16	29.84	29.96		
24	SCT	NC		10.00		30	19	26	64	16	34	30.10	30.22	24	OVC	013		10.00		71	68	69	90	9	17	29.88	29.99		
SUNRISE: 0645				MAR 03				SUNSET: 1821				SUNRISE: 0638				MAR 09				SUNSET: 1825									
03	BKN	250		10.00		30	17	26	59	12	33	30.22	30.33	03	OVC	036		9.00		70	68	69	93	9	15	29.90	30.01		
06	OVC	250		10.00		28	10	23	47	13	33	30.28	30.40	06	BKN	012		6.00	BR	68	67	67	96	0	00	29.98	30.09		
09	OVC	100		10.00		30	9	24	41	15	33	30.34	30.46	09	OVC	010		10.00	-RA	54	49	51	83	18	32	30.14	30.25		
12	FEW	NC		10.00		38	8	29	29	17	33	30.33	30.45	12	FEW	NC		10.00		63	33	49	33	18	36	30.26	30.37		
15	FEW	NC		10.00		44	6	32	21	13	36	30.28	30.39	15	SCT	NC		10.00		65	26	48	23	20	35	30.24	30.35		
18	FEW	NC		10.00		41	6	30	23	7	33	30.30	30.42	18	FEW	NC		10.00		61	22	45	22	13	01	30.29	30.40		
21	FEW	NC		10.00		33	11	26	40	7	32	30.40	30.52	21	FEW	NC		10.00		53	22	41	30	9	36	30.39	30.50		
24	CLR	NC		10.00		29	15	25	56	5	27	30.47	30.59	24	BKN	250		10.00		48	21	38	34	8	01	30.44	30.55		
SUNRISE: 0644				MAR 04				SUNSET: 1822				SUNRISE: 0637				MAR 10				SUNSET: 1826									
03	CLR	NC		10.00		25	19	23	78	0	00	30.46	30.57	03	OVC	250		10.00		47	19	37	33	14	02	30.43	30.54		
06	CLR	NC		10.00		23	19	22	85	0	00	30.47	30.59	06	BKN	250		10.00		42	21	34	43	13	02	30.42	30.54		
09	FEW	NC		9.00		35	15	29	44	3	11	30.50	30.62	09	OVC	250		10.00		47	21	37	36	13	04	30.46	30.57		
12	FEW	NC		10.00		49	8	35	19	9	26	30.47	30.58	12	FEW	NC		10.00		56	21	42	26	10	06	30.41	30.53		
15	CLR	NC		10.00		55	12	39	18	6	VR	30.37	30.48	15	BKN	250		10.00		63	22	46	21	6	13	30.32	30.43		
18	CLR	NC		10.00		54	12	39	19	3	21	30.34	30.45	18	OVC	110		10.00		59	27	45	29	7	15	30.28	30.39		
21	CLR	NC		10.00		45	32	40	61	8	16	30.35	30.47	21	BKN	085		10.00		53	39	46	59	6	16	30.23	30.35		
24	CLR	NC		10.00		35	30	33	82	0	00	30.36	30.47	24	OVC	055		10.00		54	42	48	64	6	12	30.17	30.29		
SUNRISE: 0643				MAR 05				SUNSET: 1822				SUNRISE: 0636				MAR 11				SUNSET: 1826									
03	CLR	NC		10.00		31	28	30	89	0	00	30.33	30.44	03	OVC	043		10.00		54	42	48	64	7	10	30.08	30.19		
06	CLR	NC		10.00		30	28	29	92	0	00	30.34	30.46	06	OVC	024		10.00		54	42	48	64	6	10	30.02	30.13		
09	CLR	NC		9.00		47	33	41	59	6	14	30.36	30.48	09	OVC	017		10.00		56	45	50	67	10	11	29.99	30.11		
12	FEW	NC		9.00		58	31	46	36	15	15	30.34	30.46	12	OVC	015		10.00		64	59	61	84	13	13	29.91	30.03		
15	SCT	NC		10.00		60	38	49	44	18	13	30.23	30.35	15	OVC	014		10.00		67	65	66	93	10	13	29.79	29.91		
18	OVC	080		10.00		56	38	47	51	16	13	30.21	30.32	18	OVC	018		10.00		71	66	68	84	13	17	29.75	29.86		
21	OVC	060		10.00		53	44	49	72	12	13	30.21	30.33	21	SCT	NC		10.00		67	61	63	81	13	19	29.77	29.88		
24	OVC	065		10.00		51	47	49	86	10	10	30.18	30.29	24	OVC	015		10.00		67	63	64	87	8	21	29.76	29.87		
SUNRISE: 0642				MAR 06				SUNSET: 1823				SUNRISE: 0635				MAR 12				SUNSET: 1827									
03	OVC	055		10.00		52	50	51	93	8	10	30.12	30.23	03	BKN	017		10.00		64	60	62	87	10	24	29.75	29.86		
06	OVC	043		9.00		50	49	49	96	6	06	30.09	30.21	06	BKN	026		10.00		59	55	57	87	7	31	29.80	29.91		
09	OVC	080		10.00		59	56	57	90	6	13	30.10	30.22	09	SCT	NC		10.00		58	49	53	72	13	30	29.91	30.02		
12	BKN	035		10.00		71	58	63	63	10	17	30.06	30.18	12	CLR	NC		10.00		66	41	53	40	16	34	29.89	30.01		
15	OVC	060		9.00		75	56	64	52	20	15	29.97	30.09	15	FEW	NC		10.00		72	43	57	35	12	35	29.82	29.93		
18	BKN	045		10.00		70	59	63	68	16	16	29.97	30.09	18	CLR	NC		10.00		68	44	55	42	7	34	29.83	29.95		
21	SCT	NC		10.00		64	58	60	81	10	15	30.00	30.12	21	CLR	NC		10.00		54	47	50	77	0	00	29.89	30.01		
24	SCT	NC		10.00		62	60	61	93	7	16	29.99	30.11	24	CLR	NC		10.00		51	45	48	80	3	07	29.90	30.01		

# OBSERVATIONS AT 3-HOURLY INTERVALS

# HOUSTON, TX

MARCH 2002

IAH

WBAN # 12960

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)								
	SKY COVER	CEILING 100'S OF FT		OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)		SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL	OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	
<b>SUNRISE: 0634</b>				<b>MAR 13</b>				<b>SUNSET: 1828</b>				<b>SUNRISE: 0627</b>				<b>MAR 19</b>				<b>SUNSET: 1832</b>								
03	CLR	NC			10.00	50	46	48	86	6	14	29.87	29.98	03	OVC	029			10.00	72	68	69	87	8	17	29.77	29.88	
06	FEW	NC			10.00	49	47	48	93	7	12	29.87	29.98	06	OVC	060			10.00	70	67	68	90	9	10	29.75	29.87	
09	CLR	NC			8.00	58	51	54	78	8	14	29.89	30.01	09	BKN	075		HZ	6.00	74	69	71	85	14	14	29.79	29.90	
12	CLR	NC			9.00	72	52	61	50	10	12	29.86	29.98	12	OVC	021			10.00	77	69	72	77	16	13	29.74	29.86	
15	CLR	NC			8.00	76	54	63	47	13	12	29.78	29.89	15	OVC	024			10.00	78	70	73	76	12	12	29.66	29.77	
18	FEW	NC			10.00	67	58	62	73	17	12	29.74	29.85	18	BKN	075			10.00	77	67	70	71	18	15	29.65	29.76	
21	SCT	NC			10.00	61	58	59	90	13	14	29.76	29.88	21	BKN	024			10.00	74	68	70	82	18	15	29.63	29.75	
24	SCT	NC			7.00	60	59	59	96	7	14	29.73	29.84	24	OVC	018		-RA	10.00	72	69	70	91	3	VR	29.77	29.88	
<b>SUNRISE: 0632</b>				<b>MAR 14</b>				<b>SUNSET: 1828</b>				<b>SUNRISE: 0625</b>				<b>MAR 20</b>				<b>SUNSET: 1832</b>								
03	BKN	250			5.00	BR	60	60	60	100	6	16	29.68	29.80	03	OVC	012		-RA	10.00	69	67	68	93	5	33	29.73	29.85
06	OVC	022			8.00		63	62	62	97	7	14	29.68	29.79	06	OVC	049		RA BR	5.00	63	63	63	100	0	00	29.74	29.85
09	OVC	018			10.00		68	65	66	90	13	16	29.70	29.81	09	OVC	005			10.00	63	63	63	100	10	29	29.81	29.92
12	OVC	028			10.00		74	65	68	74	14	18	29.68	29.79	12	OVC	009			10.00	64	60	62	87	9	32	29.87	29.98
15	OVC	030			10.00		80	66	71	62	21	17	29.60	29.72	15	BKN	020			10.00	64	58	60	81	21	32	29.88	29.99
18	OVC	038			9.00		74	67	69	79	14	16	29.60	29.71	18	OVC	024			10.00	63	56	59	78	9	34	29.92	30.04
21	OVC	017			9.00		72	69	70	91	10	16	29.64	29.76	21	OVC	013			9.00	57	54	55	90	10	32	30.02	30.14
24	OVC	015			9.00		72	69	70	91	13	16	29.65	29.76	24	OVC	027			10.00	57	53	55	87	7	33	30.06	30.18
<b>SUNRISE: 0631</b>				<b>MAR 15</b>				<b>SUNSET: 1829</b>				<b>SUNRISE: 0624</b>				<b>MAR 21</b>				<b>SUNSET: 1833</b>								
03	BKN	029			9.00		72	69	70	91	16	16	29.63	29.74	03	OVC	017			10.00	57	52	54	83	13	35	30.07	30.19
06	OVC	017			10.00		72	68	69	87	14	17	29.64	29.75	06	FEW	NC			10.00	53	50	51	89	6	33	30.11	30.22
09	OVC	014			9.00		73	68	70	84	14	17	29.69	29.80	09	SCT	NC			10.00	58	50	54	75	10	36	30.17	30.29
12	OVC	022			10.00		79	69	72	72	15	17	29.69	29.80	12	CLR	NC			10.00	69	45	56	42	16	02	30.17	30.29
15	OVC	055			9.00		79	70	73	74	8	16	29.67	29.78	15	CLR	NC			10.00	73	41	56	32	12	03	30.12	30.23
18	OVC	055			9.00		78	71	73	79	8	14	29.68	29.79	18	CLR	NC			10.00	70	41	55	35	15	01	30.14	30.25
21	BKN	060			9.00		73	71	72	94	7	16	29.75	29.86	21	CLR	NC			10.00	59	42	51	54	5	36	30.21	30.33
24	OVC	013			8.00	-RA	61	55	58	81	8	34	29.80	29.91	24	CLR	NC			10.00	54	42	48	64	12	34	30.27	30.38
<b>SUNRISE: 0630</b>				<b>MAR 16</b>				<b>SUNSET: 1830</b>				<b>SUNRISE: 0623</b>				<b>MAR 22</b>				<b>SUNSET: 1833</b>								
03	OVC	011			10.00		62	56	59	81	10	03	29.76	29.87	03	CLR	NC			10.00	47	37	43	69	9	33	30.30	30.42
06	OVC	009			8.00		61	56	58	84	8	36	29.80	29.91	06	CLR	NC			10.00	41	32	37	70	9	33	30.36	30.48
09	OVC	007			5.00	BR	61	58	59	90	9	01	29.86	29.97	09	SCT	NC			10.00	46	33	41	61	12	36	30.41	30.53
12	OVC	013			6.00	BR	68	60	63	76	6	36	29.87	29.98	12	BKN	250			10.00	54	36	46	51	8	30	30.36	30.47
15	OVC	017			7.00		74	64	68	71	7	VR	29.76	29.87	15	BKN	250			10.00	60	36	49	41	6	VR	30.23	30.35
18	OVC	016			4.00	BR	68	66	67	93	7	34	29.77	29.88	18	BKN	250			9.00	60	38	49	44	5	36	30.20	30.32
21	OVC	008			8.00		67	65	66	93	3	36	29.80	29.91	21	BKN	250			10.00	49	42	46	77	3	33	30.21	30.33
24	OVC	002			2.00	BR	67	66	66	97	3	04	29.82	29.94	24	SCT	NC			10.00	45	41	43	86	0	00	30.19	30.31
<b>SUNRISE: 0629</b>				<b>MAR 17</b>				<b>SUNSET: 1830</b>				<b>SUNRISE: 0622</b>				<b>MAR 23</b>				<b>SUNSET: 1834</b>								
03	OVC	002			1.00	BR	69	69	69	100	5	13	29.80	29.91	03	SCT	NC			8.00	45	38	42	77	0	00	30.14	30.26
06	OVC	037			7.00		71	70	70	96	10	16	29.80	29.91	06	BKN	030			9.00	44	38	41	79	7	07	30.14	30.26
09	OVC	250			7.00		73	71	72	94	6	15	29.85	29.96	09	CLR	NC			10.00	53	42	48	66	6	09	30.15	30.27
12	OVC	023			10.00		79	70	73	74	12	17	29.85	29.96	12	FEW	NC			10.00	65	46	55	51	10	14	30.10	30.22
15	OVC	044			10.00		80	70	73	71	7	18	29.79	29.90	15	SCT	NC			8.00	67	50	58	55	15	14	30.00	30.11
18	BKN	032			9.00		79	70	73	74	12	16	29.80	29.91	18	BKN	250			10.00	63	51	56	65	16	12	29.97	30.08
21	OVC	022			8.00		75	71	72	88	9	17	29.83	29.95	21	FEW	NC			10.00	59	53	56	81	9	14	29.96	30.08
24	OVC	023			8.00		73	70	71	90	7	17	29.86	29.98	24	CLR	NC			10.00	57	54	55	90	6	14	29.91	30.03
<b>SUNRISE: 0628</b>				<b>MAR 18</b>				<b>SUNSET: 1831</b>				<b>SUNRISE: 0621</b>				<b>MAR 24</b>				<b>SUNSET: 1835</b>								
03	OVC	021			9.00		72	69	70	91	7	16	29.82	29.93	03	CLR	NC			9.00	57	55	56	93	6	15	29.84	29.96
06	BKN	250			8.00		70	68	69	93	8	15	29.85	29.96	06	OVC	032			10.00	61	58	59	90	8	15	29.82	29.93
09	OVC	015			5.00	BR	73	69	70	87	15	13	29.88	30.00	09	BKN	250			10.00	69	60	64	73	10	17	29.84	29.96
12	OVC	026			9.00		78	67	71	69	16	13	29.86	29.97	12	OVC	034			10.00	73	59	64	62	21	17	29.79	29.91
15	BKN	250			10.00		81	66	71	61	20	14	29.78	29.89	15	BKN	050			10.00	75	60	66	60	20	16	29.72	29.83
18	OVC	024			10.00		75	70	72	84	13	13	29.77	29.88	18	OVC	038			10.00	72	59	64	64	15	16	29.73	29.85
21	OVC	020			7.00		73	70	71	90	10	14	29.78	29.90	21	OVC	040			10.00	70	60	64	71	14	16	29.74	29.86
24	OVC	020			10.00		73	69	70	87	9	16	29.78	29.89	24	SCT	NC			10.00	67	61	63	81	9	16	29.74	29.85

# OBSERVATIONS AT 3-HOURLY INTERVALS

# HOUSTON, TX

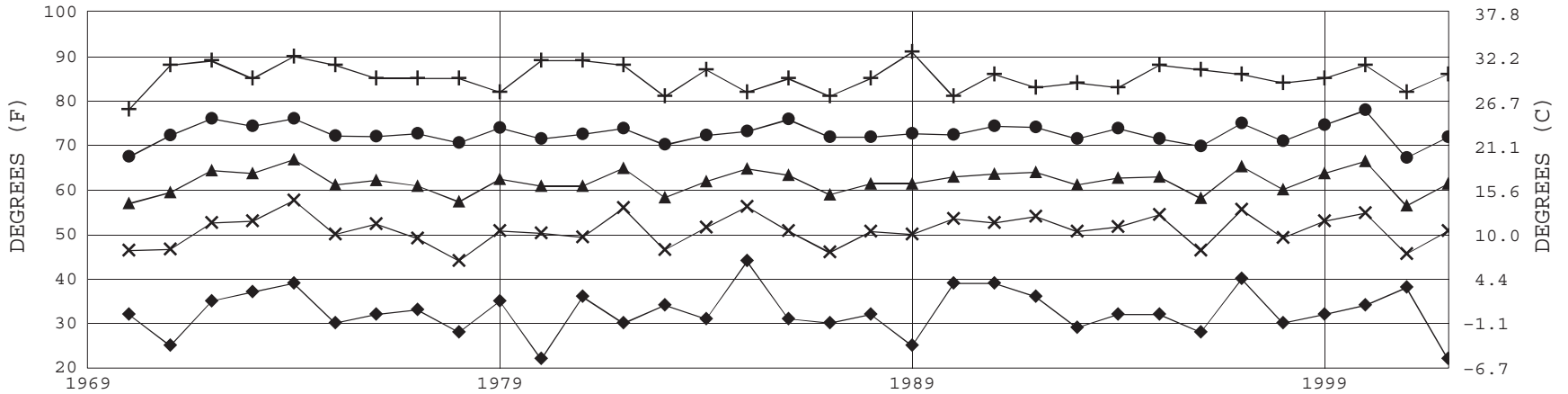
MARCH 2002

IAH

WBAN # 12960

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)																	
	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)			SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)		SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL																										
SUNRISE: 0619								MAR 25								SUNSET: 1835								SUNRISE: 0612								MAR 31								SUNSET: 1839							
03	BKN	250				9.00		64	61	62	90	10	14	29.69	29.80	03	BKN	011				4.00	BR	65	62	63	90	6	23	29.64	29.75																
06	OVC	040				10.00		67	63	64	87	10	17	29.69	29.81	06	OVC	005				10.00		62	61	61	96	14	30	29.71	29.82																
09	OVC	040				8.00		70	65	67	84	5	15	29.77	29.88	09	OVC	010				10.00		62	58	60	86	7	32	29.81	29.93																
12	OVC	060				9.00		73	66	69	79	12	12	29.79	29.90	12	OVC	030				10.00		69	57	62	66	16	32	29.85	29.96																
15	OVC	027				7.00	-RA	72	68	69	87	9	16	29.75	29.87	15	BKN	033				10.00		70	57	62	64	8	36	29.84	29.96																
18	OVC	023				5.00	RA BR	71	68	69	90	7	16	29.78	29.90	18	BKN	250				10.00		70	57	62	64	5	36	29.85	29.96																
21	OVC	007				5.00	-RA BR	53	51	52	93	12	32	29.90	30.01	21	SCT	NC				10.00		63	57	60	81	9	34	29.91	30.02																
24	OVC	008				7.00	-RA	48	47	47	96	10	34	29.96	30.07	24	FEW	NC				10.00		57	54	55	90	6	33	29.94	30.06																
SUNRISE: 0618								MAR 26								SUNSET: 1836								3-HOURLY OBSERVATION NOTES																							
03	OVC	060				7.00		47	45	46	93	9	34	29.98	30.09	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 Visibility = 8/8.																															
06	OVC	014				10.00		45	42	44	90	8	35	30.05	30.16	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																															
09	FEW	NC				10.00		49	40	45	71	14	36	30.12	30.23	NC = No ceiling detected.																															
12	CLR	NC				10.00		58	42	50	56	12	01	30.11	30.23	& = Original observation contained additional weather elements.																															
15	CLR	NC				10.00		65	43	54	45	8	35	30.04	30.16	See page 3 for additional notes.																															
18	CLR	NC				10.00		64	42	53	45	9	35	30.03	30.15																																
21	CLR	NC				10.00		54	44	49	69	3	34	30.09	30.21																																
24	CLR	NC				10.00		48	43	46	83	5	01	30.11	30.22																																
SUNRISE: 0617								MAR 27								SUNSET: 1836																															
03	FEW	NC				10.00		45	43	44	93	5	36	30.09	30.21																																
06	CLR	NC				10.00		42	40	41	92	5	04	30.09	30.21																																
09	SCT	NC				10.00		51	43	47	74	12	07	30.12	30.24																																
12	BKN	250				10.00		62	44	53	52	7	07	30.09	30.21																																
15	OVC	085				10.00		68	44	55	42	5	VR	29.99	30.10																																
18	BKN	250				10.00		68	47	57	47	8	16	29.94	30.06																																
21	SCT	NC				10.00		61	47	54	60	7	17	29.96	30.08																																
24	FEW	NC				10.00		55	50	52	83	0	00	29.94	30.05																																
SUNRISE: 0616								MAR 28								SUNSET: 1837																															
03	SCT	NC				10.00		50	50	50	100	0	00	29.91	30.03																																
06	BKN	250				6.00	BR	53	52	52	96	7	07	29.88	30.00																																
09	OVC	043				4.00	BR	63	60	61	90	8	15	29.90	30.02																																
12	OVC	022				9.00		73	65	68	76	13	15	29.88	29.99																																
15	OVC	030				9.00		77	67	70	71	10	15	29.80	29.91																																
18	BKN	049				10.00		75	69	71	82	10	13	29.75	29.87																																
21	FEW	NC				10.00		72	68	69	87	8	18	29.78	29.89																																
24	OVC	011				10.00		71	68	69	90	6	19	29.78	29.89																																
SUNRISE: 0614								MAR 29								SUNSET: 1838																															
03	OVC	013				10.00		72	68	69	87	8	20	29.74	29.85																																
06	OVC	011				10.00		71	68	69	90	10	21	29.77	29.88																																
09	OVC	024				9.00		75	68	70	79	12	20	29.78	29.90																																
12	OVC	028				9.00		79	68	72	69	13	21	29.79	29.91																																
15	OVC	041				10.00		83	68	73	61	10	20	29.74	29.85																																
18	OVC	022				8.00		76	69	71	79	9	18	29.73	29.85																																
21	OVC	020				9.00		74	69	71	85	12	17	29.74	29.85																																
24	OVC	017				9.00		73	69	70	87	14	16	29.67	29.79																																
SUNRISE: 0613								MAR 30								SUNSET: 1838																															
03	OVC	130				10.00		74	67	69	79	17	16	29.61	29.72																																
06	OVC	013				7.00		72	69	70	91	6	21	29.63	29.75																																
09	BKN	250				6.00	HZ	75	70	72	84	8	11	29.65	29.76																																
12	OVC	060				10.00		82	63	70	53	9	18	29.66	29.78																																
15	BKN	050				10.00		84	62	70	48	14	19	29.57	29.68																																
18	OVC	110				10.00		78	67	71	69	10	17	29.56	29.67																																
21	BKN	060				10.00		70	68	69	93	8	17	29.65	29.76																																
24	OVC	015				10.00		67	65	66	93	0	00	29.69	29.80																																

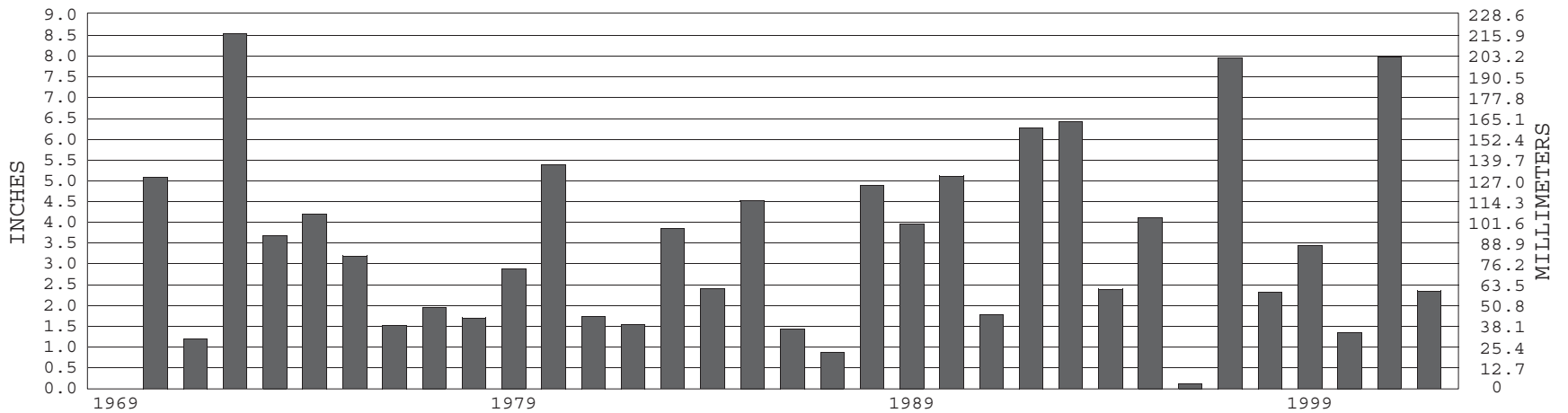
### HOUSTON, TX MARCH TEMPERATURES



+ Extreme Max.      ● Mean Max.      ▲ Mean      × Mean Min.      ◆ Extreme Min.

Long-Term (1969-2002) Mean: 60.0      1961-1990 Normal: 62.3

### HOUSTON, TX MARCH PRECIPITATION



Long-Term (1969-2002) Mean Monthly Total: 3.42

1961-1990 Normal: 3.36



MARCH 2002

HOUSTON, TX

# LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

*I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites operated by NOAA – National Weather Service / Department Of Transportation – Federal Aviation Administration and received at the National Climatic Data Center (NCDC), Asheville, North Carolina 28801.*

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