



# APRIL 2003

## 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		0600 LST	1200 LST	2400 LST	2400 LST	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM				
																			5-SEC		2-MIN		
1	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
01	75	55	65	-1	52	58	0	0			0.0	0.00	30.13	30.24	11.4	17	11.7	35*	17	24	18	01	
02	76	57	67	1	57	61	0	2			0.0	0.00	30.01	30.12	10.0	17	10.2	28	16	23	15	02	
03	79	63	71	5	63	66	0	6	RA		0.0	T	29.86	29.97	11.5	16	11.5	26	15	21	16	03	
04	82	68	75	9	66	69	0	10	RA		0.0	T	29.72	29.83	7.2	17	8.5	21	19	16	15	04	
05	85	66	76	9	68	70	0	11	BR HZ		0.0	0.00	29.75	29.87	7.1	12	8.4	24	15	21	14	05	
06	76	72	74	7	73	73	0	9	RA DZ BR		0.0	0.03	29.65	29.77	8.3	16	8.6	22	16	18	16	06	
07	78	67	73	6	69	70	0	8	TS TSRA RA FG BR		0.0	0.01	29.76	29.88	5.8	08	7.1	20	10	16	10	07	
08	69	51	60	-7	42	52	5	0			0.0	0.00	30.05	30.17	16.3	34	16.4	31	32	24	35	08	
09	66	41	54*	-13	29	43	11	0			0.0	0.00	30.14	30.26	11.6	33	11.6	33	34	25	33	09	
10	75	40*	58	-9	38	49	7	0	RA		0.0	T	30.02	30.14	1.3	29	2.6	18	31	14	28	10	
11	76	52	64	-3	47	55	1	0			0.0	0.00	29.91	30.02	2.7	18	3.4	15	13	13	13	11	
12	82	53	68	1	54	60	0	3	MIFG		0.0	0.00	29.95	30.06	2.9	15	3.8	20	14	16	12	12	
13	83	55	69	1	58	63	0	4	BR		0.0	0.00	30.03	30.15	5.0	15	6.2	21	10	17	12	13	
14	82	60	71	3	62	65	0	6	BR		0.0	0.00	30.05	30.17	7.6	15	8.1	24	13	20	14	14	
15	82	65	74	6	62	66	0	9			0.0	0.00	29.92	30.04	12.1	16	12.4	32	14	29*	15	15	
16	79	66	73	5	67	69	0	8	RA		0.0	T	29.76	29.88	8.0	18	8.5	21	17	16	17	16	
17	86	69	78*	9	66	69	0	13	BR		0.0	0.00	29.81	29.92	2.3	24	3.6	20	23	14	23	17	
18	84	65	75	6	65	68	0	10			0.0	0.00	29.76	29.88	11.5	15	11.9	25	15	23	15	18	
19	78	70	74	5	67	69	0	9	BR		0.0	0.00	29.77	29.89	12.3	15	12.5	29	15	24	15	19	
20	75	67	71	2	70	70	0	6	TS TSRA RA BR		0.0	1.03	29.89	30.01	2.1	12	4.6	24	09	20	09	20	
21	79	64	72	2	58	63	0	7	BR		0.0	0.00	29.93	30.05	7.6	03	8.2	24	03	18	05	21	
22	72	62	67	-3	59	62	0	2	RA		0.0	T	29.86	29.97	8.1	08	9.0	23	09	21	09	22	
23	78	66	72	2	67	69	0	7	RA		0.0	T	29.73	29.84	11.8	13	13.0	31	14	25	13	23	
24	83	71	77	7	71	73	0	12	TS TSRA RA BR		0.0	0.39	29.58	29.70	7.5	17	8.0	20	18	16	15	24	
25	86*	65	76	5	61	66	0	11	BR		0.0	0.00	29.59	29.71	5.3	32	6.8	20	01	16	36	25	
26	85	59	72	1	57	63	0	7			0.0	0.00	29.73	29.84	2.3	05	3.1	14	07	10	03	26	
27	84	61	73	2	63	66	0	8	MIFG		0.0	0.00	29.81	29.92	6.0	14	6.6	20	13	17	13	27	
28	81	64	73	2	65	68	0	8	BR		0.0	0.00	29.83	29.94	6.0	14	7.0	26	14	24	15	28	
29	84	64	74	3	67	69	0	9	BR		0.0	0.00	29.79	29.90	5.5	13	6.6	23	12	18	14	29	
30	85	67	76	5	68	70	0	11	BR		0.0	0.00	29.73	29.85	7.8	14	9.7	22	15	17	13	30	

79.5	61.5	70.5	■ ■	60.4	64.5	0.8	6.5	< MONTHLY AVERAGES	TOTALS->	0.0	1.46	29.85	29.97	2.8	12	8.3	<- MONTHLY AVERAGES
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0.4	3.6	2.0	■ ■	->-----DEPARTURE FROM NORMAL-----<						-2.14	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3					
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<b>DEGREE DAYS</b>								GREATEST 24-HR PRECIPITATION: 1.03 DATE: 20				SEA LEVEL PRESSURE DATE TIME			
MONTHLY TOTAL DEPARTURE				SEASON TO DATE TOTAL DEPARTURE				GREATEST 24-HR SNOWFALL: 0.0 DATE:				MAXIMUM MINIMUM : 30.35 09 0853			
HEATING: 24 -24				1480 -43				GREATEST SNOW DEPTH: 0 DATE:				MINIMUM TEMP ≤ 32 : 0			
COOLING: 196 49				239 -7				NUMBER OF DAYS WITH →				PRECIPITATION ≥ 0.01 INCH : 4			
								MAXIMUM TEMP ≥ 90: 0				PRECIPITATION ≥ 0.10 INCH : 2			
								MINIMUM TEMP ≤ 0 : 0				SNOWFALL ≥ 1.0 INCH : 0			
								THUNDERSTORMS : 3				HEAVY FOG : 0			

APRIL 2003  
HOUSTON, TX

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## HOUSTON, TX

APRIL 2003

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													01												01		0.00		
02													02												02		0.00		
03													03												03		T		
04													04	T	T										04		T		
05													05												05		0.00		
06			T	T	0.02	T	T						06			T	T	T	T	T	0.01				06		0.03		
07								T					07			0.01	T	T	T					07		0.01			
08													08												08		0.00		
09													09												09		0.00		
10													10		T										10		T		
11													11												11		0.00		
12													12												12		0.00		
13													13												13		0.00		
14													14												14		0.00		
15													15												15		0.00		
16													16	T	T										16		T		
17													17												17		0.00		
18													18												18		0.00		
19													19												19		0.00		
20				T									20	0.06	T	T	0.47	0.16	0.01						20		1.03		
21													21												21		0.00		
22													22				T								22		T		
23													23		T							T	T		23		T		
24		T	T	0.01					T	0.38	T	T	24	T											24		0.39		
25													25												25		0.00		
26													26												26		0.00		
27													27												27		0.00		
28													28												28		0.00		
29													29												29		0.00		
30													30												30		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)	.21	.30	.32	.34	.38	.47	.47	.62	.63	.63	.64	.64
Ending Date	20	20	20	20	20	20	20	20	20	20	20	20
Ending Time (Hour/Min)	1507	1512	1513	1522	1532	1541	1541	1612	1630	1630	1721	1721

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	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 APRIL 2003

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
	TOTAL MINUTES	PERCENT POSSIBLE	SR–SS		MN–MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							10.00	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							7.00	10.00	
05							1.00	10.00	
06							1.00	10.00	
07							.00	10.00	
08							10.00	10.00	
09							10.00	10.00	
10							9.00	10.00	
11							8.00	10.00	
12							9.00	10.00	
13							3.00	10.00	
14							1.00	10.00	
15							10.00	10.00	
16							9.00	10.00	
17							4.00	10.00	
18							7.00	10.00	
19							5.00	10.00	
20							.75	8.00	
21							1.25	10.00	
22							10.00	10.00	
23							9.00	10.00	
24							1.00	10.00	
25							4.00	10.00	
26							10.00	10.00	
27							8.00	10.00	
28							4.00	10.00	
29							4.00	10.00	
30							1.00	10.00	
<b>MONTHLY AVGS</b>							5.95	9.93	
<b>SUNSHINE (MINUTES)</b>									
Total:                      Possible:									
Percent Possible:									
<b>NUMBER OF DAYS WITH:</b>									
<b>SKY CONDITION</b>									
CLR   PTLY CLDY   CLOUDY   MISSING									
30									
<b>MINIMUM VISIBILITY (MILES)</b>									
<=0.25      <=3.0      >=7.0									
1                      9                      16									

# OBSERVATIONS AT 3-HOURLY INTERVALS

# HOUSTON, TX

APRIL 2003

IAH

WBAN # 12960

HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)					
	SKY COVER	CEILING 100'S OF FT			OBSERVATION TIME (LST)	EFF CLD AMT Oktas	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	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
<b>SUNRISE: 0611 APR 01</b>					<b>SUNSET: 1839</b>					<b>SUNRISE: 0604 APR 07</b>					<b>SUNSET: 1843</b>														
03	CLR	NC	10.00		58	53	55	84	6	18	30.17	30.28	03	OVC	002	10.00	FG	73	71	72	94	3	13	29.69	29.80				
06	FEW	NC	10.00		56	52	54	87	6	17	30.16	30.27	06	OVC	001	10.00	FG	70	70	70	100	7	08	29.71	29.83				
09	SCT	NC	10.00		66	51	58	59	14	19	30.19	30.30	09	OVC	018	3.00		73	71	72	94	13	06	29.74	29.86				
12	SCT	NC	10.00		73	50	60	44	20	17	30.15	30.27	12	OVC	012	1.50		76	71	73	85	9	07	29.75	29.86				
15	BKN	050	10.00		74	51	61	45	17	17	30.08	30.19	15	OVC	031	10.00	-TSRA	71	67	68	87	12	11	29.75	29.87				
18	BKN	250	10.00		69	51	59	53	13	18	30.05	30.16	18	OVC	085	10.00		71	66	68	84	8	09	29.77	29.89				
21	SCT	NC	10.00		64	54	58	70	12	17	30.07	30.19	21	OVC	250	10.00		70	65	67	84	5	07	29.83	29.95				
24	SCT	NC	10.00		60	56	58	86	3	17	30.07	30.19	24	OVC	075	10.00		67	66	66	97	8	32	29.86	29.98				
<b>SUNRISE: 0610 APR 02</b>					<b>SUNSET: 1840</b>					<b>SUNRISE: 0603 APR 08</b>					<b>SUNSET: 1844</b>														
03	FEW	NC	10.00		57	56	56	96	3	17	30.02	30.14	03	SCT	NC	10.00		66	58	61	75	15	35	29.86	29.98				
06	BKN	250	10.00		58	57	57	97	3	15	30.02	30.14	06	BKN	070	10.00		61	44	52	54	16	34	29.96	30.08				
09	BKN	250	10.00		70	59	63	68	16	18	30.05	30.17	09	OVC	037	10.00		59	40	50	49	17	35	30.09	30.21				
12	OVC	049	10.00		75	58	65	55	10	17	30.04	30.15	12	BKN	250	10.00		65	41	53	42	16	35	30.09	30.21				
15	OVC	040	10.00		75	58	65	55	18	15	29.97	30.09	15	FEW	NC	10.00		67	35	51	31	20	35	30.08	30.20				
18	OVC	250	10.00		71	55	62	57	18	16	29.96	30.08	18	CLR	NC	10.00		63	33	49	33	17	36	30.09	30.21				
21	SCT	NC	10.00		66	57	61	73	9	17	29.97	30.09	21	CLR	NC	10.00		56	35	46	46	12	34	30.16	30.27				
24	SCT	NC	10.00		64	60	62	87	10	16	29.95	30.07	24	CLR	NC	10.00		51	33	43	50	18	34	30.20	30.31				
<b>SUNRISE: 0609 APR 03</b>					<b>SUNSET: 1841</b>					<b>SUNRISE: 0602 APR 09</b>					<b>SUNSET: 1844</b>														
03	SCT	NC	10.00		64	62	63	93	9	17	29.90	30.02	03	CLR	NC	10.00		45	27	38	49	8	33	30.18	30.30				
06	BKN	250	10.00		64	63	63	96	8	16	29.89	30.01	06	CLR	NC	10.00		41	28	36	60	13	33	30.21	30.32				
09	OVC	055	10.00		72	64	67	76	15	16	29.92	30.03	09	CLR	NC	10.00		49	27	40	43	16	34	30.23	30.35				
12	OVC	060	10.00		76	62	67	62	15	17	29.89	30.01	12	CLR	NC	10.00		59	26	45	28	21	33	30.16	30.28				
15	OVC	060	10.00		77	62	68	60	16	16	29.81	29.93	15	CLR	NC	10.00		65	28	48	25	16	32	30.08	30.20				
18	BKN	250	10.00		73	63	67	71	13	16	29.78	29.90	18	CLR	NC	10.00		64	26	47	24	16	33	30.04	30.16				
21	BKN	049	10.00		69	65	66	87	8	17	29.81	29.92	21	CLR	NC	10.00		53	35	45	51	0	00	30.09	30.21				
24	OVC	018	10.00		69	66	67	90	12	17	29.78	29.89	24	CLR	NC	10.00		49	37	44	64	0	00	30.09	30.22				
<b>SUNRISE: 0608 APR 04</b>					<b>SUNSET: 1841</b>					<b>SUNRISE: 0601 APR 10</b>					<b>SUNSET: 1845</b>														
03	OVC	015	10.00		69	67	68	93	9	19	29.72	29.83	03	FEW	NC	10.00		43	38	41	82	0	00	30.07	30.19				
06	BKN	017	10.00		69	67	68	93	6	17	29.72	29.83	06	CLR	NC	10.00		40	38	39	93	0	00	30.09	30.21				
09	BKN	020	10.00		73	67	69	81	10	18	29.72	29.84	09	BKN	250	10.00		61	34	48	36	3	VR	30.11	30.23				
12	OVC	034	10.00		80	65	70	60	13	22	29.74	29.85	12	BKN	250	10.00		68	34	52	28	8	23	30.06	30.18				
15	OVC	048	10.00		79	67	71	67	7	11	29.68	29.80	15	BKN	250	10.00		73	36	54	26	8	29	29.94	30.06				
18	BKN	060	10.00		78	66	70	67	9	12	29.66	29.78	18	OVC	250	10.00		70	38	54	31	0	00	29.92	30.04				
21	BKN	250	10.00		71	67	68	87	10	16	29.72	29.84	21	BKN	250	10.00		63	42	52	47	6	26	29.95	30.06				
24	OVC	015	7.00		69	68	68	96	0	00	29.76	29.88	24	CLR	NC	10.00		55	48	51	77	0	00	29.92	30.03				
<b>SUNRISE: 0606 APR 05</b>					<b>SUNSET: 1842</b>					<b>SUNRISE: 0559 APR 11</b>					<b>SUNSET: 1845</b>														
03	BKN	012	5.00	BR	67	67	67	100	0	00	29.73	29.85	03	BKN	250	10.00		56	47	51	72	5	24	29.90	30.02				
06	OVC	004	2.00	BR	68	67	67	96	5	12	29.75	29.87	06	BKN	250	10.00		54	49	51	83	0	00	29.91	30.03				
09	OVC	006	2.00	BR	72	69	70	91	7	11	29.80	29.92	09	BKN	250	10.00		62	51	56	67	5	28	29.96	30.08				
12	BKN	030	10.00		80	67	71	64	3	VR	29.78	29.90	12	OVC	250	10.00		72	39	55	30	6	16	29.92	30.04				
15	BKN	250	10.00		85	68	73	57	13	14	29.71	29.83	15	OVC	250	10.00		76	42	58	30	8	19	29.87	29.98				
18	OVC	250	10.00		79	69	72	72	14	13	29.70	29.82	18	BKN	250	10.00		75	41	57	30	5	16	29.85	29.96				
21	OVC	013	10.00		73	69	70	87	17	13	29.73	29.85	21	FEW	NC	10.00		65	47	55	52	6	18	29.90	30.02				
24	OVC	009	10.00		72	69	70	91	7	13	29.71	29.83	24	SCT	NC	10.00		59	54	56	83	0	00	29.92	30.03				
<b>SUNRISE: 0605 APR 06</b>					<b>SUNSET: 1842</b>					<b>SUNRISE: 0558 APR 12</b>					<b>SUNSET: 1846</b>														
03	OVC	003	7.00		72	72	72	100	14	15	29.66	29.77	03	FEW	NC	10.00		55	52	53	90	0	00	29.90	30.02				
06	OVC	005	2.50	-RA BR	72	72	72	100	13	15	29.65	29.77	06	SCT	NC	9.00	MIFG	53	51	52	93	0	00	29.93	30.05				
09	OVC	006	2.50	BR	72	72	72	100	18	16	29.66	29.77	09	FEW	NC	10.00		68	56	61	66	0	00	29.98	30.10				
12	OVC	009	6.00	BR	74	72	73	94	14	17	29.66	29.78	12	CLR	NC	10.00		77	48	61	36	3	VR	29.97	30.09				
15	OVC	006	1.00	-RA BR	74	74	74	100	6	18	29.60	29.72	15	SCT	NC	10.00		82	50	63	33	7	VR	29.92	30.03				
18	OVC	009	7.00	-RA	75	74	74	96	0	00	29.60	29.72	18	FEW	NC	10.00		76	56	64	50	12	13	29.92	30.03				
21	OVC	007	6.00	BR	74	73	73	97	0	00	29.68	29.79	21	CLR	NC	10.00		67	57	61	71	7	17	29.98	30.09				
24	OVC	014	7.00		73	73	73	100	0	00	29.70	29.82	24	CLR	NC	10.00		64	61	62	90	6	21	30.01	30.12				

# OBSERVATIONS AT 3-HOURLY INTERVALS

# HOUSTON, TX

APRIL 2003

IAH

WBAN # 12960

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	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	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	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
				<b>SUNRISE: 0557</b>		<b>APR 13</b>		<b>SUNSET: 1847</b>						<b>SUNRISE: 0551</b>		<b>APR 19</b>		<b>SUNSET: 1850</b>											
03	CLR	NC		7.00			60	59	59	96	0	00	29.99	30.11	03	BKN	023		10.00			70	65	67	84	12	16	29.75	29.87
06	CLR	NC	BR	3.00			56	55	55	97	0	00	30.01	30.13	06	OVC	023		10.00			70	66	67	87	7	16	29.76	29.88
09	FEW	NC		10.00			70	62	65	76	7	21	30.07	30.18	09	OVC	021		10.00			74	66	69	76	21	15	29.75	29.87
12	SCT	NC		10.00			79	53	64	41	12	18	30.06	30.18	12	OVC	065		10.00			77	67	70	71	20	15	29.76	29.88
15	SCT	NC		10.00			82	54	65	38	8	17	30.00	30.12	15	OVC	026		10.00			76	66	70	72	15	16	29.76	29.88
18	BKN	250		10.00			76	57	65	52	15	12	29.99	30.11	18	OVC	028		10.00			75	67	70	76	12	16	29.75	29.87
21	SCT	NC		10.00			68	61	64	78	8	17	30.04	30.16	21	OVC	018		10.00			73	69	70	87	9	13	29.82	29.94
24	BKN	250		10.00			65	64	64	97	3	17	30.06	30.18	24	OVC	007	BR	6.00			71	71	71	100	10	14	29.82	29.93
				<b>SUNRISE: 0556</b>		<b>APR 14</b>		<b>SUNSET: 1847</b>						<b>SUNRISE: 0550</b>		<b>APR 20</b>		<b>SUNSET: 1851</b>											
03	BKN	250	BR	5.00			63	62	62	97	0	00	30.03	30.15	03	OVC	009		4.00	BR		71	70	70	96	0	00	29.81	29.92
06	BKN	250	BR	1.00			60	60	60	100	0	00	30.05	30.17	06	OVC	017		2.50	BR		71	71	71	100	6	10	29.84	29.96
09	BKN	250		10.00			69	64	66	84	7	18	30.11	30.22	09	OVC	026		6.00	BR		73	69	70	87	8	13	29.90	30.01
12	BKN	250		10.00			79	59	67	50	13	16	30.08	30.20	12	OVC	021	+TSRA	2.00	BR		70	70	70	100	8	04	29.92	30.03
15	SCT	NC		10.00			81	61	68	51	14	13	30.02	30.14	15	OVC	028		5.00	BR		74	70	71	88	7	12	29.91	30.02
18	FEW	NC		10.00			76	63	68	64	15	14	30.01	30.12	18	OVC	009		6.00	BR		70	70	70	100	0	00	29.90	30.02
21	SCT	NC		10.00			68	63	65	84	7	17	30.04	30.16	21	OVC	009		1.00	TS BR		68	68	68	100	3	VR	29.96	30.08
24	SCT	NC		10.00			66	64	65	93	6	16	30.03	30.14	24	OVC	007	BR	1.25			67	67	67	100	3	33	29.94	30.06
				<b>SUNRISE: 0555</b>		<b>APR 15</b>		<b>SUNSET: 1848</b>						<b>SUNRISE: 0549</b>		<b>APR 21</b>		<b>SUNSET: 1852</b>											
03	OVC	012		10.00			65	64	64	97	7	16	29.97	30.09	03	OVC	003		1.25			67	67	67	100	13	01	29.94	30.06
06	BKN	250		10.00			65	64	64	97	6	16	29.98	30.10	06	OVC	060		10.00			64	58	60	81	12	03	29.97	30.09
09	OVC	023		10.00			71	63	66	76	16	16	29.98	30.10	09	SCT	NC		10.00			69	55	61	61	15	04	30.00	30.11
12	BKN	041		10.00			77	60	67	56	14	18	29.96	30.08	12	FEW	NC		10.00			75	52	62	45	12	06	29.97	30.09
15	BKN	250		10.00			80	58	66	47	20	14	29.89	30.01	15	BKN	055		10.00			78	53	63	42	9	01	29.90	30.02
18	BKN	250		10.00			75	58	65	55	20	15	29.84	29.96	18	BKN	250		10.00			77	54	63	45	5	01	29.87	29.98
21	BKN	250		10.00			69	62	65	78	9	16	29.86	29.98	21	BKN	085		10.00			72	58	64	61	3	07	29.88	29.99
24	BKN	250		10.00			68	63	65	84	14	17	29.78	29.89	24	OVC	250		10.00			66	61	63	84	0	00	29.88	30.00
				<b>SUNRISE: 0554</b>		<b>APR 16</b>		<b>SUNSET: 1849</b>						<b>SUNRISE: 0548</b>		<b>APR 22</b>		<b>SUNSET: 1852</b>											
03	SCT	NC		10.00			66	63	64	90	13	16	29.72	29.84	03	BKN	250		10.00			64	61	62	90	5	03	29.85	29.96
06	OVC	043		10.00			67	64	65	91	5	18	29.78	29.89	06	BKN	250		10.00			63	59	61	87	7	05	29.87	29.99
09	OVC	026		10.00			70	66	67	87	10	18	29.79	29.91	09	BKN	050		10.00			71	54	61	55	13	10	29.88	29.99
12	OVC	016		10.00			73	68	70	84	10	21	29.78	29.89	12	OVC	037		10.00			68	58	62	70	12	01	29.92	30.03
15	BKN	020		10.00			79	70	73	74	7	20	29.73	29.84	15	OVC	039		10.00			71	58	63	63	12	10	29.84	29.96
18	BKN	250		10.00			75	69	71	82	10	17	29.71	29.83	18	BKN	050		10.00			70	59	63	68	14	09	29.81	29.93
21	OVC	014		10.00			72	69	70	91	6	20	29.76	29.88	21	OVC	028		10.00			68	59	63	73	10	10	29.83	29.95
24	OVC	012		10.00			72	69	70	91	13	23	29.79	29.91	24	OVC	016		10.00			67	61	63	81	10	09	29.80	29.92
				<b>SUNRISE: 0553</b>		<b>APR 17</b>		<b>SUNSET: 1849</b>						<b>SUNRISE: 0547</b>		<b>APR 23</b>		<b>SUNSET: 1853</b>											
03	OVC	004		9.00			69	68	68	96	5	VR	29.78	29.90	03	OVC	014		10.00			66	63	64	90	8	11	29.76	29.88
06	OVC	008	BR	4.00			69	69	69	100	3	29	29.81	29.93	06	OVC	017		10.00			67	65	66	93	8	10	29.78	29.90
09	BKN	020		10.00			75	66	69	74	3	21	29.85	29.97	09	OVC	018		10.00			71	67	68	87	13	10	29.79	29.91
12	BKN	250		10.00			80	64	70	58	0	00	29.84	29.96	12	OVC	050		10.00			77	68	71	74	21	12	29.75	29.86
15	BKN	250		10.00			84	64	71	51	9	26	29.80	29.92	15	BKN	034		10.00			76	68	71	77	18	15	29.69	29.81
18	BKN	250		10.00			84	62	70	48	3	VR	29.77	29.88	18	BKN	060		10.00			75	67	70	76	18	15	29.65	29.77
21	BKN	250		10.00			73	64	67	74	0	00	29.79	29.91	21	OVC	024		10.00			73	69	70	87	7	17	29.68	29.80
24	SCT	NC		10.00			72	67	69	84	6	18	29.77	29.88	24	OVC	013		10.00			74	71	72	91	12	16	29.64	29.75
				<b>SUNRISE: 0552</b>		<b>APR 18</b>		<b>SUNSET: 1850</b>						<b>SUNRISE: 0546</b>		<b>APR 24</b>		<b>SUNSET: 1854</b>											
03	BKN	250		8.00			65	64	64	97	8	19	29.76	29.88	03	OVC	013	-RA	5.00	BR		72	71	71	97	8	18	29.63	29.75
06	OVC	011		7.00			66	64	65	93	3	17	29.78	29.90	06	OVC	023		10.00			72	70	71	94	7	16	29.63	29.75
09	BKN	250		10.00			73	66	69	79	10	16	29.81	29.92	09	OVC	130		7.00	-TSRA		72	70	71	94	6	16	29.63	29.75
12	BKN	250		10.00			82	66	71	58	13	16	29.78	29.90	12	OVC	014		9.00	-RA		75	72	73	90	5	21	29.60	29.72
15	BKN	160		10.00			83	65	71	55	15	16	29.73	29.85	15	SCT	NC		10.00			80	73	75	79	8	18	29.53	29.65
18	BKN	150		10.00			79	63	69	58	16	15	29.73	29.85	18	FEW	NC		10.00			81	72	75	74	9	15	29.49	29.61
21	BKN	250		10.00			72	67	69	84	12	13	29.74	29.85	21	BKN	130		8.00			74	72	73	94	8	16	29.54	29.65
24	BKN	250		10.00			71	66	68	84	17	16	29.72	29.83	24	OVC	008		7.00			72	70	71	94	6	VR	29.54	29.66

# OBSERVATIONS AT 3-HOURLY INTERVALS

# HOUSTON, TX

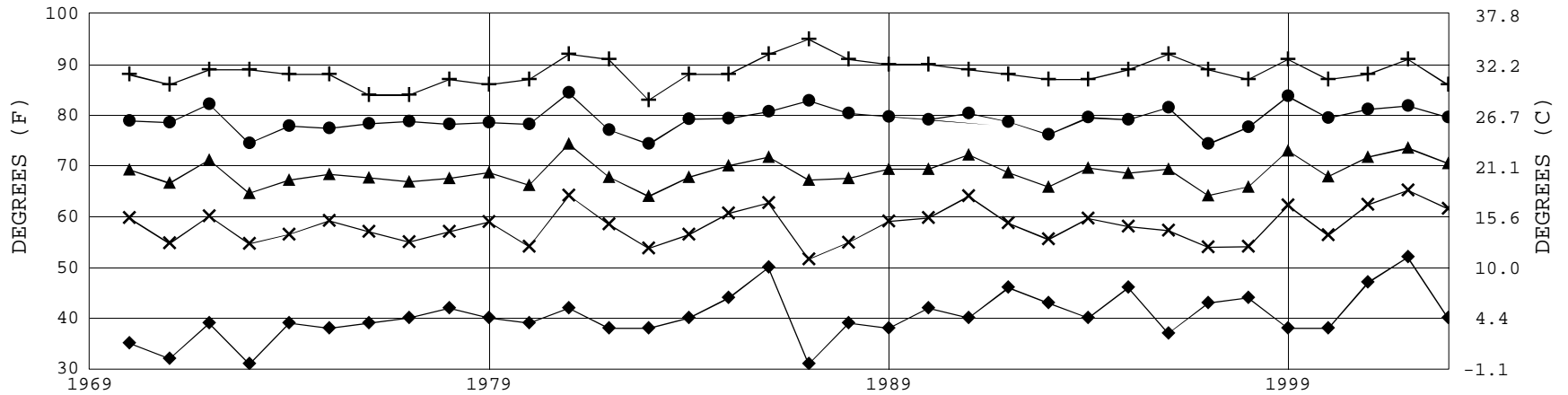
APRIL 2003

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						
SUNRISE: 0545 APR 25 SUNSET: 1854												SUNRISE: APR 31 SUNSET:																					
03	BKN	010		8.00	71	69	70	94	0	00	29.51	29.63																					
06	OVC	012	BR	6.00	71	69	70	94	7	24	29.55	29.67																					
09	BKN	022		10.00	75	67	70	76	10	30	29.60	29.71																					
12	CLR	NC		10.00	80	55	65	42	8	34	29.61	29.73																					
15	CLR	NC		10.00	85	55	67	36	8	33	29.57	29.69																					
18	CLR	NC		10.00	81	53	64	38	9	33	29.58	29.70																					
21	CLR	NC		10.00	69	57	62	66	0	00	29.65	29.77																					
24	CLR	NC		10.00	65	55	59	70	5	34	29.69	29.80																					
SUNRISE: 0544 APR 26 SUNSET: 1855												3-HOURLY OBSERVATION NOTES																					
03	CLR	NC		10.00	62	55	58	78	3	01	29.67	29.79	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	CLR	NC		10.00	60	55	57	84	3	03	29.71	29.83	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																				
09	CLR	NC		10.00	71	54	61	55	9	06	29.77	29.89	NC= No ceiling detected.																				
12	CLR	NC		10.00	78	52	63	40	0	00	29.76	29.88	& = Original observation contained additional weather elements.																				
15	FEW	NC		10.00	83	56	66	40	0	00	29.71	29.83	See page 3 for additional notes.																				
18	CLR	NC		10.00	83	57	67	41	7	05	29.68	29.80																					
21	CLR	NC		10.00	73	61	66	66	6	13	29.73	29.85																					
24	CLR	NC		10.00	65	63	64	93	0	00	29.77	29.88																					
SUNRISE: 0543 APR 27 SUNSET: 1855												SUMMARY BY HOUR																					
03	CLR	NC		10.00	63	61	62	93	0	00	29.76	29.88	AVERAGES																				
06	CLR	NC	MIFG	9.00	61	60	60	97	0	00	29.80	29.92	HOUR (LST)	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	RESULTANT WIND (MPH)									
09	FEW	NC		10.00	74	64	68	71	7	14	29.86	29.97								STATION	SEA LEVEL			SPEED	DIRECTION								
12	FEW	NC		10.00	80	64	70	58	10	14	29.83	29.95	01			65	62	63	89	29.85	29.97	9.18	5	3	16								
15	SCT	NC		10.00	83	62	70	49	9	12	29.78	29.90	02			65	61	63	90	29.84	29.96	8.88	6	2	17								
18	BKN	250		10.00	77	62	68	60	13	12	29.78	29.90	03			64	61	62	90	29.84	29.95	8.14	5	2	15								
21	SCT	NC		10.00	71	64	67	79	9	15	29.82	29.94	04			63	61	62	91	29.84	29.96	8.38	4	1	16								
24	SCT	NC		10.00	68	65	66	90	5	16	29.82	29.94	05			63	60	62	91	29.85	29.96	8.00	4	1	11								
SUNRISE: 0542 APR 28 SUNSET: 1856												06												63	60	61	91	29.86	29.98	7.20	5	1	10
03	BKN	250		7.00	65	63	64	93	0	00	29.80	29.92	07			64	60	62	89	29.87	29.99	7.25	6	3	12								
06	BKN	130	BR	5.00	66	64	65	93	0	00	29.84	29.96	08			67	61	64	83	29.89	30.00	7.97	7	3	14								
09	BKN	130		10.00	72	66	68	82	8	13	29.85	29.97	09			70	61	64	74	29.89	30.01	9.02	10	5	14								
12	BKN	130		10.00	76	64	68	67	6	16	29.86	29.98	10			72	60	65	67	29.89	30.01	9.01	10	4	15								
15	BKN	250		10.00	80	66	71	62	10	13	29.80	29.92	11			74	59	65	62	29.89	30.01	9.15	10	5	16								
18	BKN	130		10.00	77	66	70	69	10	13	29.78	29.90	12			75	59	66	59	29.87	29.99	9.28	10	4	16								
21	BKN	130		10.00	73	66	69	79	9	12	29.81	29.93	13			77	59	66	57	29.85	29.97	9.70	11	6	16								
24	BKN	250		10.00	68	66	67	93	0	00	29.84	29.95	14			78	59	67	55	29.84	29.95	9.77	10	6	15								
SUNRISE: 0541 APR 29 SUNSET: 1857												15												78	59	67	55	29.82	29.94	9.53	11	6	15
03	BKN	250		10.00	66	65	65	96	0	00	29.82	29.94	16			78	59	67	56	29.81	29.92	9.65	12	6	13								
06	BKN	015	BR	4.00	65	64	64	97	0	00	29.80	29.92	17			77	59	66	56	29.80	29.92	9.63	12	7	13								
09	SCT	NC		10.00	73	67	69	81	7	VR	29.83	29.94	18			75	59	66	60	29.80	29.92	9.77	11	7	13								
12	OVC	038		10.00	80	67	71	64	5	VR	29.80	29.92	19			72	60	65	68	29.81	29.93	9.77	10	7	14								
15	BKN	041		10.00	83	66	72	57	12	12	29.74	29.85	20			70	61	65	73	29.82	29.94	9.53	9	7	15								
18	BKN	250		10.00	78	68	71	71	14	12	29.73	29.85	21			69	61	64	77	29.84	29.96	9.50	7	5	15								
21	BKN	250		10.00	73	68	70	84	10	14	29.74	29.86	22			68	62	64	82	29.85	29.97	9.51	7	4	15								
24	SCT	NC		10.00	70	68	69	93	0	00	29.77	29.89	23			67	62	64	85	29.85	29.96	9.31	7	4	16								
SUNRISE: 0540 APR 30 SUNSET: 1857												24												66	62	64	87	29.84	29.96	9.28	6	3	17
03	SCT	NC		8.00	68	67	67	96	7	11	29.72	29.84																					
06	OVC	060	BR	1.00	68	67	67	96	13	36	29.79	29.91																					
09	SCT	NC		10.00	77	68	71	74	13	15	29.77	29.89																					
12	OVC	045		10.00	81	66	71	61	8	17	29.75	29.86																					
15	OVC	047		10.00	83	67	72	59	12	13	29.69	29.81																					
18	SCT	NC		10.00	80	68	72	67	16	15	29.68	29.80																					
21	FEW	NC		10.00	74	69	71	85	12	13	29.71	29.83																					
24	SCT	NC		10.00	72	69	70	91	6	17	29.71	29.83																					

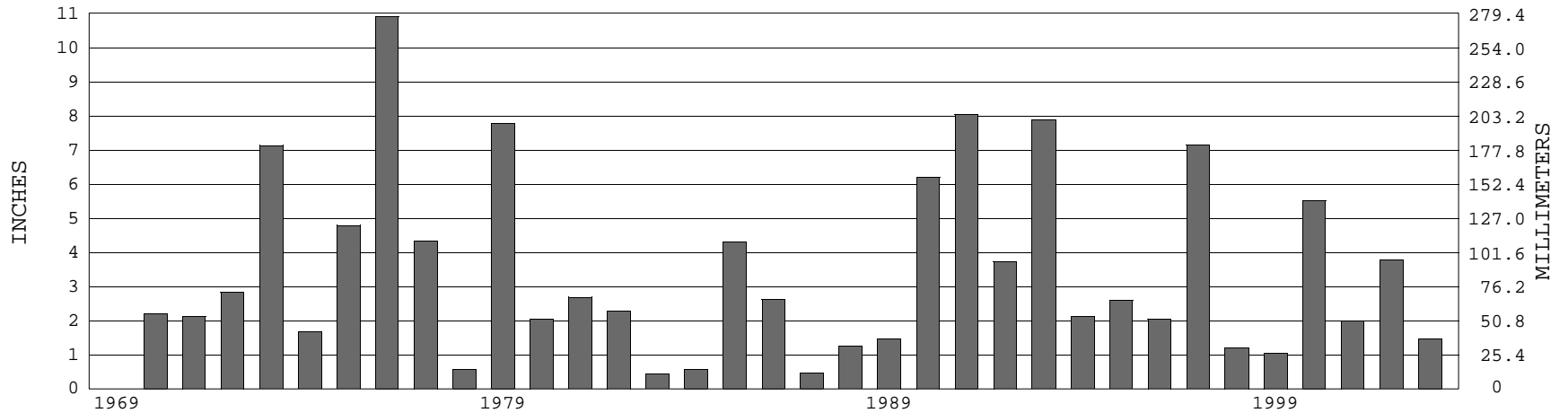
### HOUSTON, TX APRIL TEMPERATURES



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

Long-Term (1969-2003) Mean: 66.7      1961-1990 Normal: 68.5

### HOUSTON, TX APRIL PRECIPITATION



Long-Term (1969-2003) Mean Monthly Total: 3.36

1961-1990 Normal: 3.60



APRIL 2003

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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