



# MARCH 2005

## LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

# HOUSTON, TX

G BUSH INTCNTL APT/HOU APT (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																																																										
1	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	20	21	22	23	24																																																									
01	70	46	58	-1	44	50	7	0			0.0	0.00	29.97	30.09	4.0	09	5.7	20	36	16	36	01																																																									
02	56	44	50	-9	45	47	15	0	RA BR		0.0	0.51	29.92	30.04	9.3	06	10.5	26	02	21	02	02																																																									
03	61	46	54	-6	47	50	11	0			0.0	0.00	29.97	30.09	5.3	03	6.7	14	06	12	07	03																																																									
04	69	48	59	-1	51	55	6	0			0.0	0.00	30.01	30.12	3.0	13	4.4	16	14	15	14	04																																																									
05	67	55	61	1	56	58	4	0	RA BR		0.0	T	30.07	30.19	2.0	08	3.0	12	11	8	14	05																																																									
06	67	58	63	3	58	60	2	0	RA BR		0.0	0.03	29.99	30.10	7.7	12	9.4	26	12	22	13	06																																																									
07	71	61	66	6	62	64	0	1	TSRA RA BR		0.0	0.75	29.73	29.85	2.3	28	5.4	28	30	18	34	07																																																									
08	70	49	60	-1	38	49	5	0			0.0	0.00	29.91	30.03	1.6	05	5.7	15	02	13	03	08																																																									
09	72	48	60	-1	41	50	5	0	RA		0.0	T	29.90	30.02	6.9	31	7.3	35*	32	28*	30	09																																																									
10	74	43	59	-2	42	51	6	0			0.0	0.00	29.90	30.01	3.3	20	5.4	16	22	13	21	10																																																									
11	75	52	64	3	40	52	1	0			0.0	0.00	29.96	30.07	5.6	31	7.2	23	31	18	31	11																																																									
12	80	45	63	1	46	55	2	0			0.0	0.00	29.81	29.93	9.1	21	9.5	25	25	20	22	12																																																									
13	86*	57	72	10	56	62	0	7			0.0	0.00	29.65	29.76	7.1	25	12.2	32	33	25	33	13																																																									
14	70	47	59	-3	40	49	6	0			0.0	0.00	29.85	29.96	9.0	03	10.0	22	02	18	02	14																																																									
15	57	50	54	-8	41	48	11	0	RA		0.0	T	29.79	29.90	11.8	05	12.5	23	05	20	05	15																																																									
16	53	40	47*	-15	41	44	18	0	RA BR		0.0	0.24	29.87	29.98	11.3	36	11.8	26	33	22	33	16																																																									
17	62	40*	51	-12	37	43	14	0			0.0	0.00	29.94	30.05	3.8	31	4.8	21	30	16	29	17																																																									
18	73	41	57	-6	46	52	8	0			0.0	0.00	29.81	29.92	7.6	17	8.1	23	15	18	18	18																																																									
19	80	59	70	7	60	62	0	5	TS TSRA RA BR		0.0	0.91	29.82	29.94	3.7	17	7.1	31	17	24	17	19																																																									
20	75	54	65	2	56	60	0	0	TSRA		0.0	0.14	29.80	29.91	2.9	15	4.8	29	10	25	09	20																																																									
21	80	56	68	5	61	64	0	3	RA BR		0.0	0.04	29.62	29.74	7.6	16	8.4	26	15	23	15	21																																																									
22	77	60	69	6	52	60	0	4	TS TSRA BR		0.0	1.15	29.67	29.79	7.9	28	8.9	32	26	26	32	22																																																									
23	77	49	63	0	45	53	2	0			0.0	0.00	29.83	29.95	1.5	32	5.0	15	26	12	27	23																																																									
24	76	52	64	0	58	61	1	0			0.0	0.00	29.76	29.87	8.9	13	9.2	25	12	21	11	24																																																									
25	83	62	73	9	62	66	0	8	BR HZ		0.0	0.00	29.73	29.84	2.4	13	3.8	15	16	13	15	25																																																									
26	78	59	69	5	60	62	0	4	RA BR HZ		0.0	T	29.66	29.77	6.6	35	8.0	22	36	18	33	26																																																									
27	59	44	52	-13	43	48	13	0	TSRA RA BR		0.0	0.28	29.83	29.95	12.2	30	13.8	31	29	25	29	27																																																									
28	75	42	59	-6	44	52	6	0			0.0	0.00	29.84	29.96	4.8	21	5.7	20	17	14	20	28																																																									
29	75	53	64	-1	58	61	1	0	RA		0.0	T	29.67	29.79	12.6	16	12.7	31	15	26	15	29																																																									
30	83	66	75*	10	66	68	0	10	RA BR		0.0	T	29.64	29.76	5.7	15	6.6	18	13	16	13	30																																																									
31	81	66	74	9	66	68	0	9	RA BR		0.0	T	29.68	29.80	2.9	10	5.9	20	09	15	11	31																																																									
72.0										51.4		61.7		■ ■		50.4		55.6		4.6		1.6		< MONTHLY AVERAGES		TOTALS->		0.0		4.05		29.83		29.94		0.9		18		7.7		<- MONTHLY AVERAGES																																					
-1.3										0.1		-.6		■ ■		<-----DEPARTURE FROM NORMAL----->																				0.69		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																																									
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.19 DATE :21-22										SEA LEVEL PRESSURE										DATE		TIME																																															
MONTHLY TOTAL DEPARTURE										SEASON TO DATE TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: 0.0 DATE :										MAXIMUM										30.24		05 1053																																					
HEATING: 144										-12										1131										-344										MINIMUM		29.62		21 1653																																			
COOLING: 51										-12										134										35										NUMBER OF DAYS WITH →										MAXIMUM TEMP ≥ 90: 0										MINIMUM TEMP ≤ 32: 0										PRECIPITATION ≥ 0.01 INCH : 9									
																																								MAXIMUM TEMP ≤ 32 : 0										MINIMUM TEMP ≤ 0 : 0										PRECIPITATION ≥ 0.10 INCH : 7																			
																																																		THUNDERSTORMS : 5										HEAVY FOG : 0										SNOWFALL ≥ 1.0 INCH : 0									

MARCH 2005  
HOUSTON, TX

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## HOUSTON, TX

MARCH 2005

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						T	T					0.02	0.19	02	0.22	0.04	0.04								02		0.51		
03														03											03		0.00		
04														04											04		0.00		
05														05								T	T		05		T		
06	T	T	T		T	0.01	T	T	T				06		T			T	T	0.01				06		0.03			
07	0.01		T										07	0.04	0.51	0.17							T	0.01	07	0.75			
08													08												08	0.00			
09													09												09	T			
10													10												10	0.00			
11													11												11	0.00			
12													12												12	0.00			
13													13												13	0.00			
14													14												14	0.00			
15						T	T						15	T											15	T			
16	T	T			T	0.01	0.14	0.04	0.02	0.03			16												16	0.24			
17													17												17	0.00			
18													18												18	0.00			
19													19				T	T	T	0.85	0.01	0.04	T	0.01	T	0.91			
20	0.03	0.11	T										20												20	0.14			
21													21							0.03	0.01				21	0.04			
22													22												22	1.15			
23													23												23	0.00			
24													24												24	0.00			
25													25												25	0.00			
26													26	T	T										26	T			
27		0.05	0.15	0.02	0.06	T							27												27	0.28			
28													28												28	0.00			
29													29							T					29	T			
30													30												30	T			
31													31											T	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)	.49	.76	1.13	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Ending Date	22	22	22	22	22	22	22	22	22	22	22	22
Ending Time (Hour/Min)	0314	0320	0323	0325	0325	0325	0325	0325	0325	0325	0325	0325

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 MARCH 2005

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							2.50	10.00	
03							9.00	10.00	
04							8.00	10.00	
05							.25	10.00	
06							4.00	10.00	
07							1.50	10.00	
08							10.00	10.00	
09							10.00	10.00	
10							10.00	10.00	
11							10.00	10.00	
12							9.00	10.00	
13							8.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							4.00	10.00	
17							8.00	10.00	
18							9.00	10.00	
19							3.00	10.00	
20							9.00	10.00	
21							1.00	10.00	
22							.75	10.00	
23							10.00	10.00	
24							7.00	10.00	
25							2.00	10.00	
26							3.00	10.00	
27							4.00	10.00	
28							9.00	10.00	
29							10.00	10.00	
30							6.00	10.00	
31							4.00	10.00	
<b>MONTHLY AVGS</b>							6.69	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 1                      7                      18									

# OBSERVATIONS AT 3-HOURLY INTERVALS

# HOUSTON, TX

MARCH 2005

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: 0640				MAR 07				SUNSET: 1824									
03	CLR	NC		10.00		47	44	46	90	0	00	29.91	30.03	03	OVC	011		4.00		65	63	64	93	6	18	29.78	29.90		
06	BKN	080		10.00		47	45	46	93	3	36	29.95	30.07	06	BKN	095		7.00		63	62	62	97	0	00	29.77	29.88		
09	SCT	NC		10.00		54	39	47	57	12	05	30.03	30.16	09	BKN	018		7.00		67	65	66	93	0	00	29.75	29.87		
12	BKN	250		10.00		61	40	51	46	5	VR	30.03	30.15	12	OVC	009		2.00	-RA BR	68	66	67	93	5	22	29.71	29.83		
15	BKN	250		10.00		69	43	55	39	7	04	29.95	30.07	15	BKN	060		10.00		67	61	63	81	8	24	29.61	29.73		
18	SCT	NC		10.00		63	46	54	54	12	11	29.94	30.06	18	BKN	250		10.00		71	64	67	79	0	00	29.63	29.75		
21	BKN	110		10.00		56	48	52	75	9	14	29.97	30.09	21	SCT	NC		10.00		68	57	62	68	13	33	29.75	29.87		
24	SCT	NC		10.00		52	48	50	86	6	11	29.96	30.08	24	CLR	NC		10.00		62	45	53	54	10	35	29.85	29.96		
SUNRISE: 0646				MAR 02				SUNSET: 1821				SUNRISE: 0639				MAR 08				SUNSET: 1825									
03	BKN	100		10.00		53	49	51	86	6	06	29.92	30.03	03	CLR	NC		10.00		57	42	50	58	10	01	29.88	30.00		
06	OVC	027		10.00		54	46	50	75	9	05	29.94	30.05	06	SCT	NC		10.00		50	40	45	68	6	32	29.92	30.03		
09	OVC	041		10.00		55	44	50	67	12	09	29.95	30.08	09	BKN	250		10.00		57	37	48	47	9	03	30.00	30.11		
12	OVC	025		2.50	+RA BR	45	42	44	90	18	02	29.99	30.11	12	BKN	250		10.00		63	34	49	34	0	00	29.96	30.08		
15	OVC	019		10.00		46	44	45	93	13	06	29.87	29.99	15	BKN	250		10.00		68	34	52	28	7	VR	29.86	29.97		
18	OVC	010		3.00		46	43	45	89	9	04	29.88	30.00	18	SCT	NC		10.00		64	36	50	35	9	13	29.86	29.98		
21	OVC	010		3.00		46	43	45	89	9	04	29.90	30.02	21	BKN	250		10.00		60	39	50	46	7	16	29.89	30.01		
24	OVC	008		10.00		46	43	45	89	8	02	29.91	30.03	24	BKN	250		10.00		57	43	50	60	6	16	29.88	30.00		
SUNRISE: 0645				MAR 03				SUNSET: 1821				SUNRISE: 0638				MAR 09				SUNSET: 1825									
03	OVC	006		9.00		47	44	46	90	6	02	29.88	30.00	03	OVC	250		10.00		52	47	49	83	0	00	29.87	29.99		
06	OVC	010		10.00		47	44	46	90	7	36	29.92	30.04	06	BKN	250		10.00		52	46	49	80	0	00	29.87	29.99		
09	OVC	021		10.00		50	44	47	80	7	04	30.00	30.12	09	BKN	100		10.00		60	48	54	65	8	27	29.94	30.06		
12	OVC	023		10.00		54	47	50	77	8	36	30.00	30.12	12	SCT	NC		10.00		67	47	56	49	13	28	29.89	30.01		
15	OVC	032		10.00		60	49	54	67	3	04	29.95	30.07	15	SCT	NC		10.00		71	34	53	26	21	31	29.83	29.95		
18	OVC	032		10.00		60	49	54	67	8	04	29.96	30.08	18	SCT	NC		10.00		66	29	49	25	20	33	29.88	30.00		
21	OVC	032		10.00		57	50	53	78	6	11	30.01	30.13	21	SCT	NC		10.00		55	38	47	53	0	00	29.94	30.06		
24	OVC	036		10.00		54	50	52	87	0	00	30.00	30.12	24	CLR	NC		10.00		49	39	44	69	0	00	29.96	30.07		
SUNRISE: 0644				MAR 04				SUNSET: 1822				SUNRISE: 0637				MAR 10				SUNSET: 1826									
03	BKN	029		10.00		52	50	51	93	0	00	29.97	30.09	03	CLR	NC		10.00		48	37	43	66	3	01	29.94	30.06		
06	SCT	NC		9.00		48	47	47	96	3	05	29.97	30.09	06	CLR	NC		10.00		44	37	41	76	0	00	29.96	30.08		
09	OVC	025		8.00		56	51	53	84	5	36	30.05	30.17	09	FEW	NC		10.00		54	40	47	59	7	09	29.98	30.10		
12	BKN	040		10.00		64	51	57	63	7	15	30.06	30.18	12	FEW	NC		10.00		68	38	53	33	8	23	29.95	30.06		
15	BKN	048		10.00		69	50	58	51	8	19	29.97	30.09	15	SCT	NC		10.00		73	40	56	30	9	22	29.81	29.93		
18	BKN	250		10.00		65	54	59	68	12	13	29.97	30.09	18	BKN	250		10.00		72	43	57	35	6	24	29.79	29.91		
21	SCT	NC		10.00		58	54	56	87	8	13	30.00	30.12	21	BKN	250		10.00		65	50	57	59	8	21	29.83	29.95		
24	BKN	050		10.00		58	55	56	90	0	00	30.04	30.16	24	SCT	NC		10.00		61	52	56	72	7	18	29.83	29.95		
SUNRISE: 0643				MAR 05				SUNSET: 1823				SUNRISE: 0636				MAR 11				SUNSET: 1827									
03	OVC	250		10.00		56	54	55	93	0	00	30.03	30.15	03	OVC	011		10.00		60	55	57	84	5	28	29.88	30.00		
06	OVC	250		7.00		55	54	54	96	3	05	30.04	30.15	06	FEW	NC		10.00		54	51	52	90	6	01	29.94	30.05		
09	OVC	050		0.50	BR	59	58	58	96	7	06	30.12	30.23	09	SCT	NC		10.00		62	47	54	58	6	34	30.03	30.14		
12	OVC	250		10.00		66	59	62	78	5	07	30.12	30.24	12	SCT	NC		10.00		72	33	53	24	15	34	30.02	30.14		
15	OVC	250		10.00		67	57	61	71	8	11	30.04	30.16	15	FEW	NC		10.00		74	26	52	17	17	30	29.97	30.09		
18	OVC	250		10.00		66	55	60	68	0	00	30.04	30.16	18	FEW	NC		10.00		70	28	51	21	10	30	29.94	30.06		
21	OVC	120		10.00		64	57	60	78	0	00	30.07	30.19	21	CLR	NC		10.00		61	31	47	32	6	27	29.98	30.09		
24	OVC	085		10.00		61	57	59	87	0	00	30.09	30.21	24	CLR	NC		10.00		53	38	46	57	0	00	29.95	30.07		
SUNRISE: 0641				MAR 06				SUNSET: 1823				SUNRISE: 0635				MAR 12				SUNSET: 1827									
03	OVC	100		8.00		60	57	58	90	9	36	30.01	30.13	03	CLR	NC		10.00		48	41	45	77	5	24	29.92	30.04		
06	OVC	070		6.00	-RA BR	59	58	58	96	3	15	30.05	30.16	06	CLR	NC		10.00		51	37	45	59	7	21	29.90	30.02		
09	OVC	100		6.00	BR	61	58	59	90	5	08	30.07	30.18	09	CLR	NC		10.00		65	44	54	47	9	21	29.90	30.02		
12	OVC	075		10.00		66	56	60	70	16	12	30.03	30.15	12	CLR	NC		10.00		78	40	58	26	14	24	29.84	29.96		
15	OVC	045		10.00		65	56	60	73	20	13	29.94	30.06	15	CLR	NC		10.00		79	43	59	28	13	23	29.74	29.86		
18	OVC	035		9.00	-RA	64	58	60	81	13	13	29.91	30.03	18	FEW	NC		10.00		76	50	61	40	13	21	29.69	29.81		
21	OVC	021		5.00	BR	62	60	61	93	7	13	29.89	30.01	21	FEW	NC		10.00		68	57	62	68	12	19	29.70	29.82		
24	OVC	024		5.00	-RA BR	62	61	61	96	3	16	29.84	29.96	24	CLR	NC		10.00		65	58	61	78	7	18	29.69	29.80		

# OBSERVATIONS AT 3-HOURLY INTERVALS

# HOUSTON, TX

MARCH 2005

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
<b>SUNRISE: 0633 MAR 13 SUNSET: 1828</b>																													
03	CLR	NC		10.00		64	58	60	81	9	19	29.64	29.76	03	BKN	250		10.00		62	57	59	84	3	20	29.77	29.88		
06	OVC	016		8.00		67	61	63	81	17	22	29.64	29.76	06	OVC	033		10.00		60	57	58	90	5	16	29.82	29.94		
09	OVC	017		10.00		70	62	65	76	16	21	29.65	29.77	09	BKN	031		10.00		66	60	62	81	5	21	29.87	29.98		
12	FEW	NC		10.00		79	64	69	60	14	21	29.62	29.74	12	BKN	031		10.00		76	60	66	58	8	23	29.85	29.97		
15	SCT	NC		10.00		85	63	71	48	12	23	29.53	29.65	15	BKN	047		10.00		78	58	66	50	6	11	29.78	29.90		
18	BKN	055		10.00		81	53	64	38	16	30	29.58	29.70	18	OVC	050		5.00	+TSRA	66	61	63	84	22	17	29.76	29.88		
21	BKN	250		10.00		65	41	53	42	14	34	29.74	29.85	21	OVC	038		8.00		66	64	65	93	5	16	29.85	29.97		
24	CLR	NC		10.00		57	39	48	51	9	34	29.80	29.92	24	OVC	095		10.00	-TSRA	61	58	59	90	7	29	29.87	29.99		
<b>SUNRISE: 0632 MAR 14 SUNSET: 1829</b>																													
03	CLR	NC		10.00		51	38	45	61	14	01	29.80	29.92	03	OVC	140		10.00		60	55	57	84	9	32	29.73	29.85		
06	CLR	NC		10.00		47	39	43	74	6	35	29.87	29.99	06	SCT	NC		10.00		55	54	54	96	0	00	29.84	29.96		
09	FEW	NC		10.00		54	38	46	55	14	01	29.92	30.04	09	SCT	NC		10.00		62	56	59	81	0	00	29.86	29.98		
12	FEW	NC		10.00		63	41	52	45	8	03	29.89	30.01	12	BKN	039		10.00		70	57	62	64	3	VR	29.85	29.97		
15	SCT	NC		10.00		68	42	55	39	12	03	29.79	29.91	15	BKN	050		10.00		72	57	63	60	0	00	29.76	29.88		
18	SCT	NC		10.00		67	42	54	41	9	05	29.78	29.90	18	SCT	NC		10.00		73	55	62	53	5	16	29.71	29.83		
21	SCT	NC		10.00		60	41	51	50	10	06	29.84	29.96	21	BKN	250		10.00		65	57	60	76	9	14	29.74	29.85		
24	BKN	250		10.00		56	40	48	55	9	06	29.86	29.97	24	BKN	250		10.00		61	54	57	78	6	16	29.73	29.85		
<b>SUNRISE: 0631 MAR 15 SUNSET: 1829</b>																													
03	OVC	110		10.00		54	36	46	51	16	05	29.80	29.92	03	BKN	250		10.00		59	56	57	90	3	16	29.68	29.80		
06	OVC	025		10.00		52	39	46	61	10	10	29.79	29.91	06	BKN	250		6.00	BR	57	56	56	96	3	17	29.66	29.78		
09	OVC	023		10.00		54	38	46	55	15	05	29.80	29.92	09	OVC	011		7.00		68	62	64	81	10	16	29.67	29.79		
12	OVC	019		10.00		55	41	48	59	12	06	29.79	29.91	12	BKN	028		10.00		76	61	67	60	7	23	29.65	29.77		
15	OVC	021		10.00		57	45	51	64	8	05	29.73	29.85	15	BKN	110		10.00		79	61	68	54	9	20	29.55	29.66		
18	OVC	023		10.00		56	45	50	67	13	04	29.75	29.87	18	BKN	250		10.00		72	65	67	79	18	13	29.52	29.64		
21	OVC	024		10.00		53	41	47	64	13	04	29.79	29.91	21	OVC	029		7.00		67	64	65	91	9	14	29.59	29.71		
24	OVC	034		10.00		50	42	46	74	13	01	29.76	29.88	24	OVC	008		6.00	BR	68	66	67	93	9	15	29.58	29.70		
<b>SUNRISE: 0630 MAR 16 SUNSET: 1830</b>																													
03	BKN	020		10.00		49	42	46	77	14	03	29.73	29.85	03	OVC	012		9.00	TS	69	66	67	90	6	19	29.54	29.66		
06	OVC	016		8.00	RA	47	43	45	86	14	36	29.78	29.90	06	BKN	010		9.00		67	65	66	93	7	22	29.60	29.72		
09	OVC	009		10.00	-RA	46	42	44	86	10	36	29.87	29.99	09	SCT	NC		10.00		68	61	64	78	12	28	29.68	29.80		
12	OVC	015		10.00		45	40	43	83	12	35	29.91	30.03	12	FEW	NC		10.00		73	47	59	40	13	28	29.69	29.81		
15	OVC	025		10.00		50	40	45	68	17	33	29.86	29.98	15	FEW	NC		10.00		77	39	57	26	21	28	29.64	29.76		
18	OVC	025		10.00		48	39	44	71	10	35	29.91	30.03	18	FEW	NC		10.00		74	41	57	31	13	28	29.67	29.78		
21	BKN	250		10.00		45	38	42	77	5	32	29.95	30.07	21	CLR	NC		10.00		65	44	54	47	7	33	29.75	29.87		
24	BKN	250		10.00		40	38	39	93	0	00	29.94	30.06	24	CLR	NC		10.00		61	45	53	56	7	32	29.80	29.92		
<b>SUNRISE: 0629 MAR 17 SUNSET: 1830</b>																													
03	BKN	250		10.00		40	36	38	86	5	31	29.97	30.09	03	CLR	NC		10.00		54	45	49	72	5	31	29.81	29.92		
06	BKN	250		9.00		41	36	39	82	8	30	30.00	30.12	06	FEW	NC		10.00		51	43	47	74	3	29	29.84	29.96		
09	BKN	250		10.00		46	38	42	73	7	34	30.04	30.16	09	CLR	NC		10.00		56	42	49	60	6	01	29.92	30.03		
12	SCT	NC		10.00		56	35	46	46	8	36	29.97	30.09	12	FEW	NC		10.00		65	44	54	47	3	VR	29.90	30.02		
15	FEW	NC		10.00		59	34	47	39	5	34	29.87	29.99	15	FEW	NC		10.00		74	44	58	34	6	33	29.82	29.93		
18	FEW	NC		10.00		59	36	48	42	3	29	29.85	29.97	18	FEW	NC		10.00		73	47	59	40	3	13	29.76	29.88		
21	CLR	NC		10.00		47	39	43	74	0	00	29.87	29.99	21	CLR	NC		10.00		65	50	57	59	7	17	29.79	29.91		
24	CLR	NC		10.00		45	39	42	80	0	00	29.87	29.99	24	CLR	NC		10.00		59	52	55	78	3	17	29.81	29.92		
<b>SUNRISE: 0627 MAR 18 SUNSET: 1831</b>																													
03	CLR	NC		10.00		48	40	44	74	5	18	29.84	29.96	03	CLR	NC		8.00		54	52	53	93	5	11	29.79	29.91		
06	CLR	NC		9.00		47	42	45	83	3	19	29.84	29.96	06	FEW	NC		7.00		55	52	53	90	6	14	29.76	29.87		
09	FEW	NC		10.00		57	45	51	64	14	17	29.86	29.98	09	BKN	130		10.00		66	57	61	73	10	14	29.81	29.92		
12	SCT	NC		10.00		66	44	54	45	12	17	29.82	29.94	12	BKN	130		10.00		73	59	64	62	13	13	29.78	29.90		
15	BKN	250		10.00		71	45	57	39	12	20	29.75	29.86	15	SCT	NC		10.00		75	61	66	62	14	13	29.70	29.82		
18	BKN	250		10.00		69	49	58	49	9	17	29.71	29.83	18	BKN	250		10.00		70	60	64	71	17	14	29.69	29.80		
21	BKN	030		10.00		63	54	58	73	6	15	29.80	29.92	21	SCT	NC		10.00		66	62	64	87	9	14	29.75	29.86		
24	BKN	130		10.00		60	55	57	84	7	16	29.80	29.92	24	CLR	NC		10.00		65	62	63	90	6	12	29.75	29.86		

# OBSERVATIONS AT 3-HOURLY INTERVALS

# HOUSTON, TX

MARCH 2005

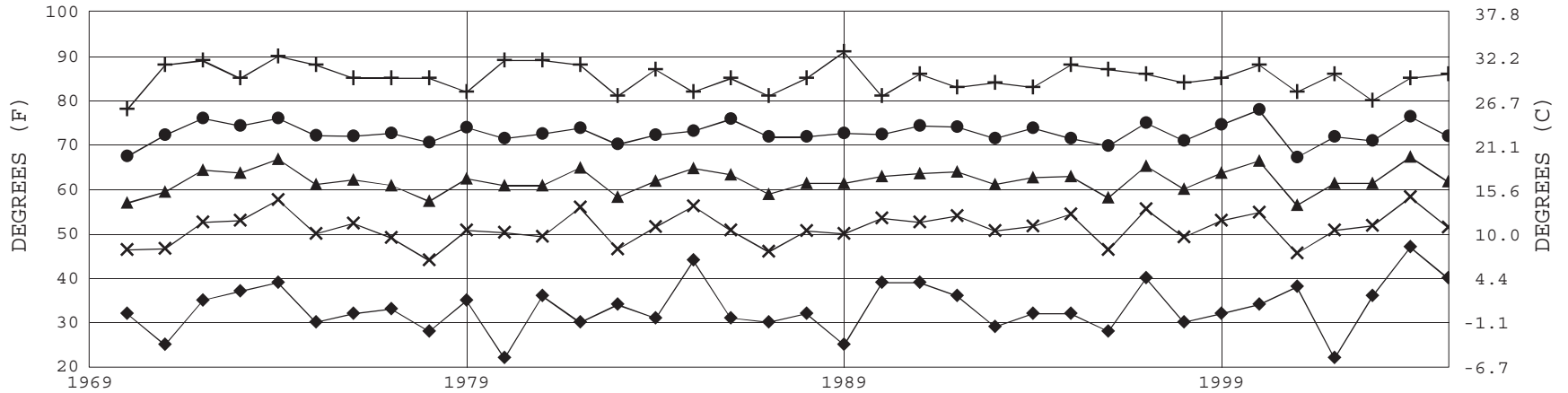
IAH

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																																																																																																																																																																																																																																																																																																																																								
SUNRISE: 0619					MAR 25					SUNSET: 1835					SUNRISE: 0612					MAR 31					SUNSET: 1839																																																																																																																																																																																																																																																																																																																																												
03	SCT	NC	6.00	BR	63	62	62	97	5	14	29.70	29.82	03	OVC	003	4.00	BR	67	66	66	97	12	09	29.65	29.76																																																																																																																																																																																																																																																																																																																																												
06	OVC	008	5.00	BR	64	63	63	96	3	06	29.73	29.85	06	OVC	012	7.00		67	65	66	93	5	32	29.70	29.82																																																																																																																																																																																																																																																																																																																																												
09	BKN	010	2.00	HZ	71	66	68	84	3	21	29.80	29.92	09	SCT	NC	8.00		73	65	68	76	7	03	29.72	29.84																																																																																																																																																																																																																																																																																																																																												
12	BKN	028	10.00		78	62	68	58	0	00	29.78	29.90	12	OVC	027	10.00		75	64	68	69	6	05	29.71	29.83																																																																																																																																																																																																																																																																																																																																												
15	BKN	250	10.00		81	60	68	49	8	07	29.68	29.80	15	BKN	049	10.00		79	65	70	62	0	00	29.64	29.76																																																																																																																																																																																																																																																																																																																																												
18	BKN	250	10.00		79	60	67	52	8	13	29.65	29.76	18	BKN	250	10.00		79	66	70	65	5	13	29.63	29.74																																																																																																																																																																																																																																																																																																																																												
21	BKN	250	10.00		72	63	66	73	8	16	29.69	29.81	21	BKN	250	10.00		72	68	69	87	7	16	29.66	29.78																																																																																																																																																																																																																																																																																																																																												
24	SCT	NC	9.00		68	64	66	87	0	00	29.73	29.85	24	OVC	055	7.00	-RA	71	67	68	87	7	30	29.71	29.83																																																																																																																																																																																																																																																																																																																																												
SUNRISE: 0618					MAR 26					SUNSET: 1836					<b>3-HOURLY OBSERVATION NOTES</b>																																																																																																																																																																																																																																																																																																																																																						
03	BKN	250	8.00		63	61	62	93	8	08	29.65	29.77	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	017	6.00	BR	66	64	65	93	0	00	29.66	29.78	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																																																																																																																																																																																																																																																																																																																																																								
09	OVC	034	6.00	HZ	71	65	67	81	5	34	29.69	29.80	NC = No ceiling detected.																																																																																																																																																																																																																																																																																																																																																								
12	OVC	027	10.00		76	63	68	64	6	VR	29.63	29.75	& = Original observation contained additional weather elements.																																																																																																																																																																																																																																																																																																																																																								
15	OVC	110	8.00		69	57	62	66	16	33	29.61	29.73	See page 3 for additional notes.																																																																																																																																																																																																																																																																																																																																																								
18	BKN	250	9.00		65	55	59	70	10	35	29.59	29.70																																																																																																																																																																																																																																																																																																																																																									
21	OVC	018	9.00		61	54	57	78	8	33	29.68	29.79																																																																																																																																																																																																																																																																																																																																																									
24	OVC	018	10.00		59	52	55	78	15	34	29.69	29.80																																																																																																																																																																																																																																																																																																																																																									
SUNRISE: 0617					MAR 27					SUNSET: 1837					<b>SUMMARY BY HOUR</b>																																																																																																																																																																																																																																																																																																																																																						
03	OVC	032	4.00	RA BR	52	50	51	93	22	32	29.75	29.86	<table border="1"> <thead> <tr> <th rowspan="2">HOUR (LST)</th> <th colspan="7">AVERAGES</th> <th colspan="2">RESULTANT WIND (MPH)</th> </tr> <tr> <th>CEILOMETER</th> <th>EFF CLD AMT</th> <th>DRY BULB</th> <th>DEW POINT</th> <th>WET BULB</th> <th>RELATIVE HUMIDITY</th> <th>PRESSURE (INCHES, HG)</th> <th>STATION</th> <th>SEA LEVEL</th> <th>VISIBILITY (MILES)</th> <th>WIND SPEED (MPH)</th> <th>SPEED</th> <th>DIRECTION</th> </tr> </thead> <tbody> <tr><td>01</td><td></td><td></td><td>57</td><td>50</td><td>54</td><td>80</td><td>29.83</td><td>29.95</td><td>9.45</td><td>5</td><td>1</td><td>12</td></tr> <tr><td>02</td><td></td><td></td><td>56</td><td>50</td><td>53</td><td>82</td><td>29.82</td><td>29.94</td><td>9.06</td><td>6</td><td>1</td><td>5</td></tr> <tr><td>03</td><td></td><td></td><td>56</td><td>50</td><td>53</td><td>83</td><td>29.81</td><td>29.93</td><td>8.97</td><td>7</td><td>2</td><td>3</td></tr> <tr><td>04</td><td></td><td></td><td>55</td><td>50</td><td>53</td><td>84</td><td>29.81</td><td>29.93</td><td>8.81</td><td>6</td><td>1</td><td>2</td></tr> <tr><td>05</td><td></td><td></td><td>55</td><td>50</td><td>52</td><td>84</td><td>29.82</td><td>29.94</td><td>8.81</td><td>5</td><td>1</td><td>1</td></tr> <tr><td>06</td><td></td><td></td><td>54</td><td>50</td><td>52</td><td>86</td><td>29.83</td><td>29.95</td><td>8.74</td><td>5</td><td>1</td><td>30</td></tr> <tr><td>07</td><td></td><td></td><td>54</td><td>50</td><td>52</td><td>86</td><td>29.85</td><td>29.96</td><td>7.78</td><td>4</td><td>1</td><td>35</td></tr> <tr><td>08</td><td></td><td></td><td>58</td><td>51</td><td>54</td><td>80</td><td>29.86</td><td>29.98</td><td>8.14</td><td>6</td><td>1</td><td>1</td></tr> <tr><td>09</td><td></td><td></td><td>61</td><td>51</td><td>56</td><td>72</td><td>29.87</td><td>29.99</td><td>8.79</td><td>8</td><td>1</td><td>7</td></tr> <tr><td>10</td><td></td><td></td><td>63</td><td>50</td><td>56</td><td>64</td><td>29.88</td><td>30.00</td><td>9.42</td><td>9</td><td>1</td><td>5</td></tr> <tr><td>11</td><td></td><td></td><td>65</td><td>50</td><td>57</td><td>60</td><td>29.87</td><td>29.99</td><td>9.65</td><td>9</td><td>0</td><td>0</td></tr> <tr><td>12</td><td></td><td></td><td>67</td><td>50</td><td>57</td><td>57</td><td>29.85</td><td>29.97</td><td>9.50</td><td>9</td><td>1</td><td>25</td></tr> <tr><td>13</td><td></td><td></td><td>68</td><td>50</td><td>58</td><td>55</td><td>29.83</td><td>29.94</td><td>9.48</td><td>9</td><td>1</td><td>28</td></tr> <tr><td>14</td><td></td><td></td><td>69</td><td>50</td><td>58</td><td>53</td><td>29.80</td><td>29.92</td><td>9.56</td><td>9</td><td>1</td><td>26</td></tr> <tr><td>15</td><td></td><td></td><td>70</td><td>49</td><td>58</td><td>51</td><td>29.78</td><td>29.90</td><td>9.94</td><td>10</td><td>1</td><td>26</td></tr> <tr><td>16</td><td></td><td></td><td>70</td><td>49</td><td>59</td><td>52</td><td>29.77</td><td>29.88</td><td>9.94</td><td>11</td><td>1</td><td>9</td></tr> <tr><td>17</td><td></td><td></td><td>69</td><td>50</td><td>59</td><td>54</td><td>29.76</td><td>29.88</td><td>9.71</td><td>11</td><td>1</td><td>12</td></tr> <tr><td>18</td><td></td><td></td><td>67</td><td>50</td><td>58</td><td>57</td><td>29.77</td><td>29.89</td><td>9.52</td><td>10</td><td>2</td><td>14</td></tr> <tr><td>19</td><td></td><td></td><td>64</td><td>50</td><td>57</td><td>64</td><td>29.78</td><td>29.90</td><td>9.32</td><td>9</td><td>3</td><td>12</td></tr> <tr><td>20</td><td></td><td></td><td>63</td><td>51</td><td>56</td><td>67</td><td>29.80</td><td>29.92</td><td>9.42</td><td>8</td><td>3</td><td>15</td></tr> <tr><td>21</td><td></td><td></td><td>61</td><td>51</td><td>56</td><td>71</td><td>29.82</td><td>29.94</td><td>9.26</td><td>7</td><td>2</td><td>14</td></tr> 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(MPH)	SPEED	DIRECTION	01			57	50	54	80	29.83	29.95	9.45	5	1	12	02			56	50	53	82	29.82	29.94	9.06	6	1	5	03			56	50	53	83	29.81	29.93	8.97	7	2	3	04			55	50	53	84	29.81	29.93	8.81	6	1	2	05			55	50	52	84	29.82	29.94	8.81	5	1	1	06			54	50	52	86	29.83	29.95	8.74	5	1	30	07			54	50	52	86	29.85	29.96	7.78	4	1	35	08			58	51	54	80	29.86	29.98	8.14	6	1	1	09			61	51	56	72	29.87	29.99	8.79	8	1	7	10			63	50	56	64	29.88	30.00	9.42	9	1	5	11			65	50	57	60	29.87	29.99	9.65	9	0	0	12			67	50	57	57	29.85	29.97	9.50	9	1	25	13			68	50	58	55	29.83	29.94	9.48	9	1	28	14			69	50	58	53	29.80	29.92	9.56	9	1	26	15			70	49	58	51	29.78	29.90	9.94	10	1	26	16			70	49	59	52	29.77	29.88	9.94	11	1	9	17			69	50	59	54	29.76	29.88	9.71	11	1	12	18			67	50	58	57	29.77	29.89	9.52	10	2	14	19			64	50	57	64	29.78	29.90	9.32	9	3	12	20			63	51	56	67	29.80	29.92	9.42	8	3	15	21			61	51	56	71	29.82	29.94	9.26	7	2	14	22			60	51	55	73	29.83	29.95	9.52	7	0	0	23			59	51	55	75	29.83	29.95	9.45	7	1	11	24			58	51	54	78	29.83	29.95	9.45	5	0	0
HOUR (LST)	AVERAGES							RESULTANT WIND (MPH)																																																																																																																																																																																																																																																																																																																																																													
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)	STATION	SEA LEVEL	VISIBILITY (MILES)	WIND SPEED (MPH)	SPEED	DIRECTION																																																																																																																																																																																																																																																																																																																																																								
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02			56	50	53	82	29.82	29.94	9.06	6	1	5																																																																																																																																																																																																																																																																																																																																																									
03			56	50	53	83	29.81	29.93	8.97	7	2	3																																																																																																																																																																																																																																																																																																																																																									
04			55	50	53	84	29.81	29.93	8.81	6	1	2																																																																																																																																																																																																																																																																																																																																																									
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06			54	50	52	86	29.83	29.95	8.74	5	1	30																																																																																																																																																																																																																																																																																																																																																									
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09			61	51	56	72	29.87	29.99	8.79	8	1	7																																																																																																																																																																																																																																																																																																																																																									
10			63	50	56	64	29.88	30.00	9.42	9	1	5																																																																																																																																																																																																																																																																																																																																																									
11			65	50	57	60	29.87	29.99	9.65	9	0	0																																																																																																																																																																																																																																																																																																																																																									
12			67	50	57	57	29.85	29.97	9.50	9	1	25																																																																																																																																																																																																																																																																																																																																																									
13			68	50	58	55	29.83	29.94	9.48	9	1	28																																																																																																																																																																																																																																																																																																																																																									
14			69	50	58	53	29.80	29.92	9.56	9	1	26																																																																																																																																																																																																																																																																																																																																																									
15			70	49	58	51	29.78	29.90	9.94	10	1	26																																																																																																																																																																																																																																																																																																																																																									
16			70	49	59	52	29.77	29.88	9.94	11	1	9																																																																																																																																																																																																																																																																																																																																																									
17			69	50	59	54	29.76	29.88	9.71	11	1	12																																																																																																																																																																																																																																																																																																																																																									
18			67	50	58	57	29.77	29.89	9.52	10	2	14																																																																																																																																																																																																																																																																																																																																																									
19			64	50	57	64	29.78	29.90	9.32	9	3	12																																																																																																																																																																																																																																																																																																																																																									
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15	OVC	028	10.00		52	40	46	64	18	29	29.85	29.97																																																																																																																																																																																																																																																																																																																																																									
18	BKN	250	10.00		54	38	46	55	15	31	29.83	29.95																																																																																																																																																																																																																																																																																																																																																									
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09	FEW	NC	10.00		57	42	50	58	0	00	29.91	30.03																																																																																																																																																																																																																																																																																																																																																									
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18	FEW	NC	10.00		73	44	57	36	6	21	29.74	29.86																																																																																																																																																																																																																																																																																																																																																									
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09	OVC	250	10.00		66	58	61	75	15	15	29.71	29.83																																																																																																																																																																																																																																																																																																																																																									
12	OVC	033	10.00		73	58	64	59	22	16	29.68	29.79																																																																																																																																																																																																																																																																																																																																																									
15	OVC	038	10.00		72	58	64	61	23	15	29.62	29.74																																																																																																																																																																																																																																																																																																																																																									
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21	OVC	026	10.00		69	62	65	78	13	16	29.63	29.75																																																																																																																																																																																																																																																																																																																																																									
24	OVC	017	10.00		69	63	65	81	10	17	29.64	29.75																																																																																																																																																																																																																																																																																																																																																									
SUNRISE: 0613					MAR 30					SUNSET: 1838																																																																																																																																																																																																																																																																																																																																																											
03	OVC	013	9.00		69	65	66	87	10	18	29.60	29.72																																																																																																																																																																																																																																																																																																																																																									
06	BKN	044	8.00		68	65	66	90	0	00	29.66	29.78																																																																																																																																																																																																																																																																																																																																																									
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15	BKN	055	10.00		81	65	70	58	7	14	29.59	29.70																																																																																																																																																																																																																																																																																																																																																									
18	SCT	NC	9.00		77	67	70	71	13	13	29.59	29.71																																																																																																																																																																																																																																																																																																																																																									
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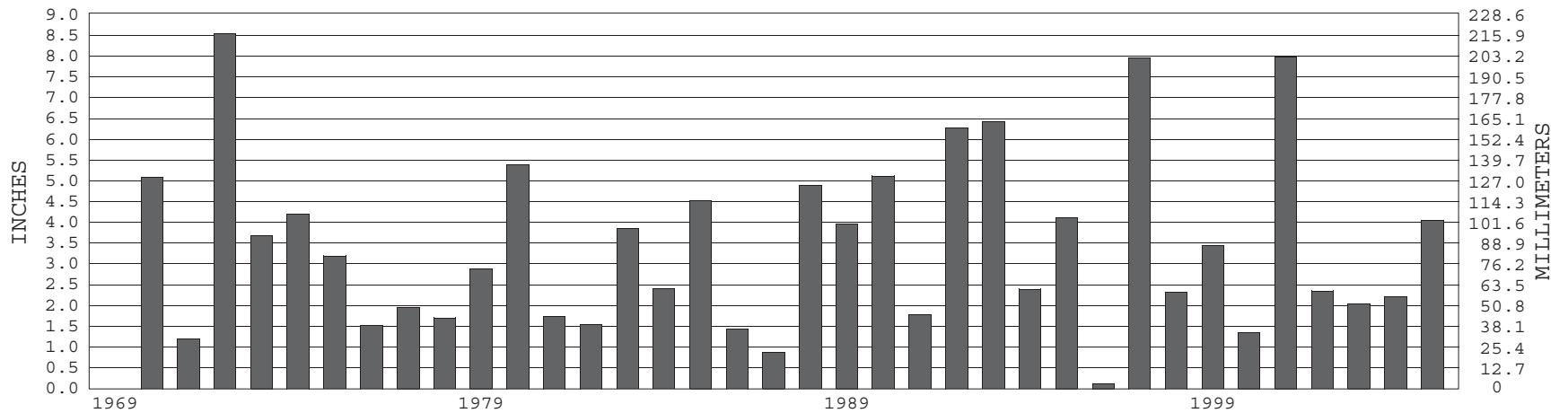
### HOUSTON, TX MARCH TEMPERATURES



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

Long-Term (1969-2005) Mean: 60.3      1971-2000 Normal: 62.3

### HOUSTON, TX MARCH PRECIPITATION



Long-Term (1969-2005) Mean Monthly Total: 3.36

1971-2000 Normal: 3.36



MARCH 2005

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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