



# JANUARY 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

JANUARY 2005  
HOUSTON, TX

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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
01	75	62	69	17	64	65	0	4	RA FG BR HZ	0		0.0	T	30.04	30.16	7.8	13	8.4	20	14	17	14	01	
02	73	66	70	18	66	67	0	5	BR	0		0.0	0.00	30.09	30.21	13.0	14	13.1	22	14	20	14	02	
03	79	66	73*	21	66	67	0	8	BR HZ	0		0.0	0.00	30.09	30.20	11.5	14	11.7	23	19	18	15	03	
04	73	66	70	18	66	67	0	5	RA BR HZ	0		0.0	0.04	29.99	30.11	10.6	14	10.8	20	14	16	15	04	
05	77	46	62	10	60	63	3	0	RA BR	0		0.0	0.01	29.86	29.97	5.1	19	12.7	28	31	23	30	05	
06	47	39	43	-9	36	40	22	0	RA	0		0.0	0.02	29.99	30.11	10.6	36	11.3	24	03	18	36	06	
07	52	42	47	-5	43	45	18	0	RA BR HZ	0		0.0	0.03	29.93	30.05	5.6	36	6.7	15	30	13	31	07	
08	66	43	55	4	42	46	10	0		0		0.0	0.00	30.17	30.28	4.3	04	6.1	17	04	13	03	08	
09	76	45	61	10	56	58	4	0	BR	0		0.0	0.00	30.16	30.27	5.2	14	6.1	16	13	15	10	09	
10	76	65	71	20	65	67	0	6	RA FG+ BR HZ	0		0.0	T	30.03	30.15	7.3	17	7.6	18	16	17	16	10	
11	79*	60	70	19	63	66	0	5	BR	0		0.0	0.00	29.86	29.97	8.4	18	8.9	22	21	16	18	11	
12	75	67	71	20	64	66	0	6		0		0.0	0.00	29.63	29.74	13.7	17	13.9	31	16	25	17	12	
13	73	45	59	8	40	47	6	0	TSRA RA BR	0		0.0	1.51	29.89	30.00	12.7	32	13.3	45*	32	36*	32	13	
14	61	37	49	-2	30	41	16	0		0		0.0	0.00	30.29	30.41	7.7	03	8.8	20	04	15	05	14	
15	59	36	48	-3	32	40	17	0		0		0.0	0.00	30.37	30.49	5.8	03	6.5	9	03	8	04	15	
16	57	36	47	-4	31	39	18	0		0		0.0	0.00	30.47	30.58	8.2	35	8.5	21	01	17	02	16	
17	53	33	43	-9	28	37	22	0		0		0.0	0.00	30.48	30.60	4.9	06	6.9	15	11	10	06	17	
18	52	35	44	-8	29	37	21	0		0		0.0	0.00	30.45	30.57	6.7	07	7.9	16	07	14	06	18	
19	68	41	55	3	47	51	10	0		0		0.0	0.00	30.25	30.37	1.7	18	4.6	15	23	13	22	19	
20	74	51	63	11	55	59	2	0	MIFG BR	0		0.0	0.00	30.03	30.15	4.8	23	5.2	21	23	16	23	20	
21	75	53	64	12	58	61	1	0	FG+ BR HZ	0		0.0	0.00	29.88	30.00	5.1	22	5.5	17	24	14	24	21	
22	73	43	58	6	47	56	7	0	BR	0		0.0	0.00	30.00	30.12	9.0	33	13.0	32	36	25	01	22	
23	49	32	41*	-11	17	32	24	0		0		0.0	0.00	30.36	30.48	8.2	02	9.7	31	01	26	36	23	
24	61	32*	47	-5	33	41	18	0		0		0.0	0.00	30.24	30.36	4.4	17	5.7	15	18	13	17	24	
25	74	44	59	7	51	55	6	0	MIFG	0		0.0	0.00	29.93	30.04	7.6	21	7.8	22	21	16	20	25	
26	78	56	67	15	57	61	0	2		0		0.0	0.00	29.85	29.97	4.9	24	5.4	20	25	15	24	26	
27	60	46	53	1	47	50	12	0	RA	0		0.0	0.12	29.97	30.09	9.6	06	10.1	21	05	18	05	27	
28	53	43	48	-5	44	46	17	0	RA BR	0		0.0	0.45	29.99	30.11	6.8	01	8.3	18	08	15	05	28	
29	52	46	49	-4	44	46	16	0	BR	0		0.0	0.00	30.03	30.15	5.6	02	7.0	17	02	14	01	29	
30	53	46	50	-3	44	47	15	0	RA BR	0		0.0	0.01	29.97	30.09	8.8	06	9.8	12	36	10	01	30	
31	49	45	47	-6	45	46	18	0	TSRA RA BR	0		0.0	1.22	29.99	30.10	12.8	01	13.1	26	03	20	36	31	
65.2 47.3 56.3 ■■										47.4 51.9 9.8 1.3 < MONTHLY AVERAGES TOTALS->				0.0 3.41 30.07 30.19 1.7 08 8.9				<- MONTHLY AVERAGES						
2.9 6.1 4.5 ■■										<-----DEPARTURE FROM NORMAL----->				-.27				SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3						
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 1.51 DATE: 13				SEA LEVEL PRESSURE DATE TIME											
MONTHLY TOTAL DEPARTURE									GREATEST 24-HR SNOWFALL: 0.0 DATE:				MAXIMUM : 30.68 17 1053											
SEASON TO DATE TOTAL DEPARTURE									GREATEST SNOW DEPTH: 0 DATE:				MINIMUM : 29.65 12 1753											
HEATING: 303			-124			777			-244			NUMBER OF DAYS WITH →		MAXIMUM TEMP ≥ 90: 0		MINIMUM TEMP ≤ 32: 2		PRECIPITATION ≥ 0.01 INCH : 9						
COOLING: 41			26			41			26					MAXIMUM TEMP ≤ 32 : 0		MINIMUM TEMP ≤ 0 : 0		PRECIPITATION ≥ 0.10 INCH : 4						
														THUNDERSTORMS : 2		HEAVY FOG : 2		SNOWFALL ≥ 1.0 INCH : 0						

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## HOUSTON, TX

JANUARY 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						T						01			T	
02													02												02			0.00	
03													03												03			0.00	
04													04	0.02	0.01	T		0.01	T					04			0.04		
05													05						T		0.01	T	T	05			0.01		
06	T												06						T					06			0.02		
07				0.01	T	T	0.01	T					07				T	0.01	0.01					07			0.03		
08													08				T							08			0.00		
09													09											09			0.00		
10													10				T						T	10			T		
11													11											11			0.00		
12													12											12			0.00		
13	1.19	0.07	0.11	0.11	0.03								13											13			1.51		
14													14											14			0.00		
15													15											15			0.00		
16													16											16			0.00		
17													17											17			0.00		
18													18											18			0.00		
19													19											19			0.00		
20													20											20			0.00		
21													21											21			0.00		
22													22											22			0.00		
23													23											23			0.00		
24													24											24			0.00		
25													25											25			0.00		
26													26											26			0.00		
27													27	0.02	0.03	T	T		T	0.04	T	0.02	T	27			0.12		
28	0.02	0.04	0.02	T	0.12	0.15	0.09	0.01					28											28			0.45		
29													29											29			0.00		
30	T	T	T	T									30											30			0.01		
31													31		0.53	0.03	0.07		T	0.05	0.07	0.04	T	31			1.22		

### MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.29	.53	.69	.78	1.08	1.18	1.20	1.23	1.25	1.28	1.34	1.39
Ending Date	13	13	13	13	13	13	13	13	13	13	13	13
Ending Time (Hour/Min)	0031	0032	0035	0034	0035	0051	0100	0116	0142	0206	0230	0304

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 JANUARY 2005

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:

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR–SS		MN–MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							.00	10.00	
02							.25	10.00	
03							.25	10.00	
04							.25	10.00	
05							3.00	10.00	
06							6.00	10.00	
07							<.25	10.00	
08							2.00	10.00	
09							4.00	10.00	
10							.00	10.00	
11							.00	10.00	
12							10.00	10.00	
13							.50	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							10.00	10.00	
19							10.00	10.00	
20							6.00	10.00	
21							.00	10.00	
22							2.00	10.00	
23							10.00	10.00	
24							10.00	10.00	
25							8.00	10.00	
26							3.00	10.00	
27							8.00	10.00	
28							3.00	10.00	
29							5.00	10.00	
30							2.00	10.00	
31							.50	10.00	
<b>MONTHLY AVGS</b>							4.85	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 8            15           11									

# OBSERVATIONS AT 3-HOURLY INTERVALS

# HOUSTON, TX

JANUARY 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 Oктаs	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 Oктаs	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0717					JAN 01					SUNSET: 1733					SUNRISE: 0718					JAN 07					SUNSET: 1738				
03	OVC	004	2.00		64	62	63	93	5	10	30.03	30.15	03	OVC	014	8.00	-RA	42	38	40	85	9	04	29.87	29.99				
06	VV	001	1.00	BR	62	62	62	100	7	09	30.01	30.13	06	OVC	005	10.00		42	40	41	92	8	01	29.87	29.99				
09	OVC	001	0.00	FG	63	62	62	97	6	11	30.06	30.18	09	OVC	003	1.25	BR	44	42	43	93	8	05	29.87	29.99				
12	BKN	085	3.00	HZ	70	64	66	82	6	17	30.08	30.19	12	OVC	003	<.25	BR	47	46	46	97	3	VR	29.91	30.03				
15	BKN	030	10.00		74	63	67	69	9	14	30.01	30.13	15	OVC	007	2.00	-RA BR	51	47	49	86	6	30	29.89	30.01				
18	OVC	090	10.00		71	65	67	81	9	12	30.02	30.14	18	OVC	039	6.00	BR	50	47	48	89	0	00	29.94	30.06				
21	OVC	007	8.00		68	65	66	90	16	14	30.05	30.16	21	OVC	006	8.00		48	46	47	93	10	35	30.02	30.14				
24	OVC	006	5.00	BR	68	66	67	93	8	13	30.06	30.18	24	BKN	005	9.00		44	42	43	93	8	02	30.07	30.19				
SUNRISE: 0718					JAN 02					SUNSET: 1734					SUNRISE: 0718					JAN 08					SUNSET: 1738				
03	OVC	004	5.00	BR	66	65	65	96	12	12	30.05	30.17	03	BKN	005	10.00		45	43	44	93	10	01	30.09	30.22				
06	OVC	002	0.50	BR	67	66	66	97	9	13	30.06	30.18	06	BKN	007	10.00		44	41	43	89	12	03	30.15	30.27				
09	OVC	004	1.00	BR	68	66	67	93	8	13	30.11	30.23	09	SCT	NC	8.00		45	41	43	86	6	06	30.20	30.32				
12	OVC	009	8.00		72	67	69	84	16	15	30.12	30.24	12	CLR	NC	10.00		54	41	48	62	0	00	30.20	30.32				
15	OVC	009	10.00		73	67	69	81	13	16	30.07	30.19	15	CLR	NC	10.00		64	37	51	37	5	VR	30.14	30.27				
18	OVC	025	8.00		70	67	68	90	14	14	30.08	30.19	18	CLR	NC	10.00		55	43	49	64	6	12	30.16	30.28				
21	OVC	004	2.00	BR	68	66	67	93	17	14	30.13	30.25	21	CLR	NC	10.00		51	43	47	74	8	11	30.21	30.33				
24	OVC	002	0.25	BR	67	66	66	97	16	14	30.09	30.21	24	CLR	NC	10.00		47	45	46	93	0	00	30.18	30.30				
SUNRISE: 0718					JAN 03					SUNSET: 1735					SUNRISE: 0718					JAN 09					SUNSET: 1739				
03	OVC	002	0.25	BR	66	65	65	96	13	15	30.09	30.20	03	CLR	NC	7.00		46	44	45	93	5	36	30.17	30.29				
06	OVC	002	0.25	BR	66	65	65	96	8	12	30.11	30.22	06	OVC	039	6.00	BR	50	49	49	96	5	09	30.16	30.28				
09	OVC	002	0.25	BR	68	66	67	93	13	14	30.13	30.24	09	OVC	043	6.00	BR	55	52	53	90	7	15	30.20	30.32				
12	BKN	018	3.00		77	67	70	71	12	18	30.10	30.22	12	OVC	047	10.00		69	58	62	68	9	16	30.19	30.30				
15	BKN	037	10.00		77	67	70	71	13	13	30.03	30.15	15	OVC	033	10.00		74	62	67	67	9	14	30.12	30.24				
18	SCT	NC	8.00		70	66	67	87	10	13	30.06	30.18	18	BKN	060	10.00		69	61	64	76	10	13	30.13	30.24				
21	OVC	005	5.00	BR	68	66	67	93	14	14	30.09	30.20	21	SCT	NC	8.00		65	62	63	90	6	15	30.14	30.26				
24	OVC	007	7.00		67	65	66	93	8	14	30.07	30.19	24	OVC	006	6.00	BR	65	63	64	93	7	18	30.11	30.23				
SUNRISE: 0718					JAN 04					SUNSET: 1735					SUNRISE: 0718					JAN 10					SUNSET: 1740				
03	OVC	003	5.00	BR	66	65	65	96	9	12	30.05	30.17	03	VV	001	0.00	BR	66	65	65	96	7	16	30.10	30.21				
06	OVC	005	6.00	BR	67	66	66	97	10	15	30.03	30.15	06	OVC	001	0.00	BR	67	66	66	97	7	17	30.08	30.20				
09	OVC	003	0.25	BR	68	66	67	93	9	14	30.06	30.18	09	OVC	003	0.00	BR	67	66	66	97	5	17	30.10	30.22				
12	OVC	009	2.00	HZ	73	67	69	81	10	14	30.02	30.14	12	OVC	014	10.00		73	65	68	76	8	21	30.08	30.20				
15	OVC	032	3.00		73	67	69	81	16	13	29.93	30.04	15	BKN	050	10.00		74	65	68	74	8	18	29.98	30.09				
18	OVC	027	10.00		70	66	67	87	14	14	29.93	30.04	18	OVC	250	10.00		72	64	67	76	9	17	29.96	30.08				
21	OVC	006	3.00	BR	68	66	67	93	10	15	29.93	30.05	21	OVC	025	10.00		70	66	67	87	10	16	29.95	30.07				
24	OVC	007	2.00	BR	68	66	67	93	13	14	29.89	30.01	24	OVC	012	8.00		69	66	67	90	6	19	29.95	30.07				
SUNRISE: 0718					JAN 05					SUNSET: 1736					SUNRISE: 0718					JAN 11					SUNSET: 1741				
03	OVC	014	10.00		70	66	67	87	12	17	29.86	29.98	03	BKN	005	5.00	BR	67	65	66	93	6	15	29.90	30.02				
06	SCT	NC	10.00		69	65	66	87	9	17	29.83	29.95	06	BKN	002	1.00	BR	65	64	64	97	0	00	29.90	30.01				
09	OVC	045	10.00		71	64	67	79	12	16	29.86	29.98	09	SCT	NC	0.00	BR	65	64	64	97	7	14	29.92	30.03				
12	OVC	035	10.00		75	64	68	69	14	17	29.86	29.98	12	BKN	029	10.00		77	61	67	58	14	22	29.90	30.02				
15	OVC	045	10.00		76	61	67	60	10	20	29.77	29.89	15	BKN	043	10.00		78	60	67	54	14	19	29.82	29.93				
18	OVC	027	10.00	-RA	73	64	67	74	20	30	29.79	29.90	18	BKN	250	10.00		74	60	65	62	10	18	29.79	29.91				
21	OVC	006	7.00	-RA	51	49	50	92	14	33	29.92	30.04	21	BKN	250	10.00		70	64	66	82	9	17	29.81	29.93				
24	OVC	005	9.00	-RA	47	44	46	90	15	34	29.96	30.08	24	BKN	250	10.00		68	65	66	90	9	17	29.76	29.88				
SUNRISE: 0718					JAN 06					SUNSET: 1737					SUNRISE: 0718					JAN 12					SUNSET: 1742				
03	OVC	060	10.00		43	39	41	86	13	34	29.97	30.09	03	OVC	013	10.00		68	65	66	90	7	17	29.71	29.83				
06	OVC	060	10.00		42	36	39	79	13	35	29.99	30.10	06	BKN	250	10.00		67	64	65	91	9	15	29.67	29.79				
09	OVC	060	10.00		40	33	37	77	14	35	30.07	30.19	09	BKN	250	10.00		69	62	65	78	15	17	29.67	29.78				
12	OVC	055	10.00		43	34	39	71	12	34	30.05	30.16	12	OVC	034	10.00		74	61	66	64	17	17	29.64	29.75				
15	OVC	050	10.00		46	34	41	63	13	35	29.95	30.08	15	OVC	035	10.00		74	62	67	67	16	18	29.55	29.67				
18	OVC	034	10.00		43	35	40	74	9	36	29.96	30.08	18	OVC	055	10.00		72	63	66	73	17	16	29.53	29.65				
21	OVC	026	10.00		41	36	39	82	9	02	29.95	30.07	21	OVC	018	10.00		72	66	68	82	10	17	29.58	29.70				
24	OVC	018	10.00		41	36	39	82	9	07	29.92	30.04	24	OVC	024	10.00		73	67	69	81	14	20	29.58	29.70				

# OBSERVATIONS AT 3-HOURLY INTERVALS

# HOUSTON, TX

JANUARY 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: 0718				JAN 13				SUNSET: 1743				SUNRISE: 0717				JAN 19				SUNSET: 1748									
03	OVC	045			9.00	RA	57	53	55	87	0	00	29.63	29.75	03	BKN	080			10.00	44	35	40	71	5	15	30.30	30.42	
06	BKN	250			10.00		59	45	52	60	13	30	29.71	29.83	06	OVC	070			10.00	44	37	41	76	6	05	30.29	30.41	
09	BKN	250			10.00		50	39	45	66	18	31	29.85	29.97	09	BKN	085			10.00	46	38	42	73	0	00	30.32	30.44	
12	SCT	NC			10.00		53	39	46	59	17	30	29.88	30.00	12	BKN	075			10.00	65	52	58	63	7	VR	30.28	30.40	
15	FEW	NC			10.00		57	39	48	51	24	33	29.88	30.00	15	OVC	035			10.00	67	54	60	63	7	20	30.19	30.31	
18	FEW	NC			10.00		53	35	45	51	12	33	30.00	30.11	18	OVC	043			10.00	66	55	60	68	3	21	30.17	30.29	
21	CLR	NC			10.00		48	32	41	54	12	34	30.11	30.23	21	OVC	050			10.00	63	55	58	76	3	20	30.18	30.30	
24	CLR	NC			10.00		45	31	39	58	8	35	30.18	30.30	24	OVC	042			10.00	62	55	58	78	5	23	30.17	30.29	
SUNRISE: 0718				JAN 14				SUNSET: 1743				SUNRISE: 0717				JAN 20				SUNSET: 1749									
03	CLR	NC			10.00		42	31	38	65	9	34	30.21	30.33	03	FEW	NC			10.00	59	55	57	87	0	00	30.11	30.22	
06	CLR	NC			10.00		39	31	36	73	5	35	30.27	30.39	06	SCT	NC			8.00	56	54	55	93	3	20	30.08	30.20	
09	FEW	NC			10.00		42	32	38	68	13	02	30.33	30.45	09	SCT	NC			7.00	60	56	58	86	3	24	30.11	30.22	
12	FEW	NC			10.00		54	29	43	38	9	05	30.32	30.44	12	BKN	039			10.00	68	57	62	68	8	26	30.08	30.19	
15	SCT	NC			10.00		60	26	45	27	9	03	30.26	30.38	15	BKN	048			10.00	73	56	63	55	9	27	29.97	30.09	
18	BKN	150			10.00		56	26	43	32	10	05	30.26	30.38	18	SCT	NC			10.00	69	55	61	61	7	22	29.94	30.06	
21	FEW	NC			10.00		49	30	41	48	10	06	30.33	30.45	21	FEW	NC			10.00	59	55	57	87	3	21	29.94	30.06	
24	SCT	NC			10.00		46	31	40	56	10	05	30.34	30.46	24	SCT	NC			10.00	59	56	57	90	7	21	29.95	30.07	
SUNRISE: 0718				JAN 15				SUNSET: 1744				SUNRISE: 0716				JAN 21				SUNSET: 1749									
03	BKN	250			10.00		40	32	37	73	5	36	30.35	30.47	03	FEW	NC			8.00	58	57	57	97	5	22	29.92	30.04	
06	SCT	NC			10.00		36	31	34	82	8	06	30.35	30.47	06	VV	001			0.00	58	58	58	100	6	22	29.89	30.01	
09	OVC	250			10.00		39	33	37	79	9	04	30.40	30.52	09	VV	001			0.00	58	58	58	100	6	23	29.92	30.04	
12	OVC	250			10.00		50	35	43	57	6	VR	30.41	30.53	12	BKN	250			10.00	70	59	63	68	9	25	29.92	30.04	
15	OVC	250			10.00		56	32	45	40	8	35	30.31	30.43	15	BKN	250			10.00	74	58	64	57	13	23	29.83	29.95	
18	SCT	NC			10.00		53	30	43	41	7	36	30.34	30.46	18	BKN	250			10.00	71	58	63	63	5	20	29.82	29.94	
21	FEW	NC			10.00		46	32	40	58	9	01	30.39	30.51	21	BKN	140			10.00	67	59	62	76	6	20	29.84	29.96	
24	FEW	NC			10.00		40	31	36	70	3	01	30.42	30.54	24	BKN	140			10.00	64	61	62	90	5	18	29.86	29.97	
SUNRISE: 0718				JAN 16				SUNSET: 1745				SUNRISE: 0716				JAN 22				SUNSET: 1750									
03	CLR	NC			10.00		38	31	35	76	3	34	30.41	30.53	03	OVC	008			9.00	66	63	64	90	6	22	29.86	29.98	
06	CLR	NC			10.00		37	31	35	79	7	34	30.45	30.57	06	OVC	006			10.00	65	62	63	90	6	24	29.88	30.00	
09	CLR	NC			10.00		40	32	37	73	12	36	30.51	30.63	09	OVC	007			8.00	65	62	63	90	9	24	29.92	30.04	
12	CLR	NC			10.00		52	27	42	38	13	02	30.51	30.63	12	OVC	023			10.00	71	59	64	66	10	35	29.97	30.09	
15	CLR	NC			10.00		57	29	45	34	13	36	30.43	30.55	15	BKN	250			10.00	71	47	58	42	15	35	29.97	30.09	
18	FEW	NC			10.00		51	30	42	45	9	33	30.44	30.56	18	SCT	NC			10.00	62	31	48	31	16	34	30.08	30.19	
21	CLR	NC			10.00		44	32	39	63	8	01	30.48	30.60	21	SCT	NC			10.00	53	24	41	32	17	35	30.19	30.31	
24	FEW	NC			10.00		39	31	36	73	7	33	30.50	30.62	24	FEW	NC			10.00	44	15	34	31	21	01	30.27	30.39	
SUNRISE: 0718				JAN 17				SUNSET: 1746				SUNRISE: 0716				JAN 23				SUNSET: 1751									
03	FEW	NC			10.00		36	30	34	79	6	02	30.46	30.58	03	CLR	NC			10.00	38	12	30	34	18	01	30.33	30.45	
06	FEW	NC			10.00		34	30	32	85	5	05	30.49	30.61	06	CLR	NC			10.00	34	13	27	42	15	01	30.35	30.47	
09	BKN	250			10.00		37	28	34	70	9	08	30.53	30.65	09	SCT	NC			10.00	35	13	28	40	15	03	30.43	30.55	
12	SCT	NC			10.00		47	23	38	39	7	VR	30.52	30.65	12	BKN	250			10.00	41	13	32	32	6	03	30.41	30.53	
15	FEW	NC			10.00		52	25	41	35	3	VR	30.43	30.55	15	OVC	250			10.00	48	16	36	28	5	VR	30.33	30.45	
18	SCT	NC			10.00		48	28	40	46	7	12	30.43	30.55	18	BKN	250			10.00	44	19	35	37	7	VR	30.33	30.45	
21	FEW	NC			10.00		40	31	36	70	8	04	30.45	30.57	21	SCT	NC			10.00	38	22	32	53	5	03	30.35	30.47	
24	OVC	130			10.00		42	28	37	58	8	05	30.47	30.60	24	FEW	NC			10.00	36	26	32	67	6	04	30.34	30.46	
SUNRISE: 0717				JAN 18				SUNSET: 1747				SUNRISE: 0715				JAN 24				SUNSET: 1752									
03	BKN	250			10.00		40	25	34	55	9	06	30.47	30.59	03	CLR	NC			10.00	34	27	31	76	5	09	30.32	30.44	
06	BKN	250			10.00		36	25	32	64	12	06	30.48	30.60	06	BKN	250			10.00	34	27	31	76	3	12	30.31	30.43	
09	OVC	250			10.00		37	25	33	62	12	05	30.51	30.63	09	BKN	250			10.00	41	30	37	65	6	14	30.32	30.45	
12	OVC	250			10.00		46	28	39	50	0	00	30.50	30.62	12	FEW	NC			10.00	55	31	44	40	8	18	30.29	30.41	
15	OVC	250			10.00		50	31	42	48	8	10	30.42	30.54	15	SCT	NC			10.00	60	33	48	36	7	18	30.18	30.30	
18	OVC	250			10.00		47	32	41	56	9	08	30.40	30.52	18	SCT	NC			10.00	58	37	48	46	5	18	30.13	30.25	
21	OVC	250			10.00		45	33	40	63	7	12	30.39	30.51	21	SCT	NC			10.00	51	43	47	74	6	17	30.13	30.25	
24	OVC	075			10.00		46	34	41	63	6	04	30.38	30.50	24	SCT	NC			10.00	49	43	46	80	5	18	30.10	30.22	

# OBSERVATIONS AT 3-HOURLY INTERVALS

# HOUSTON, TX

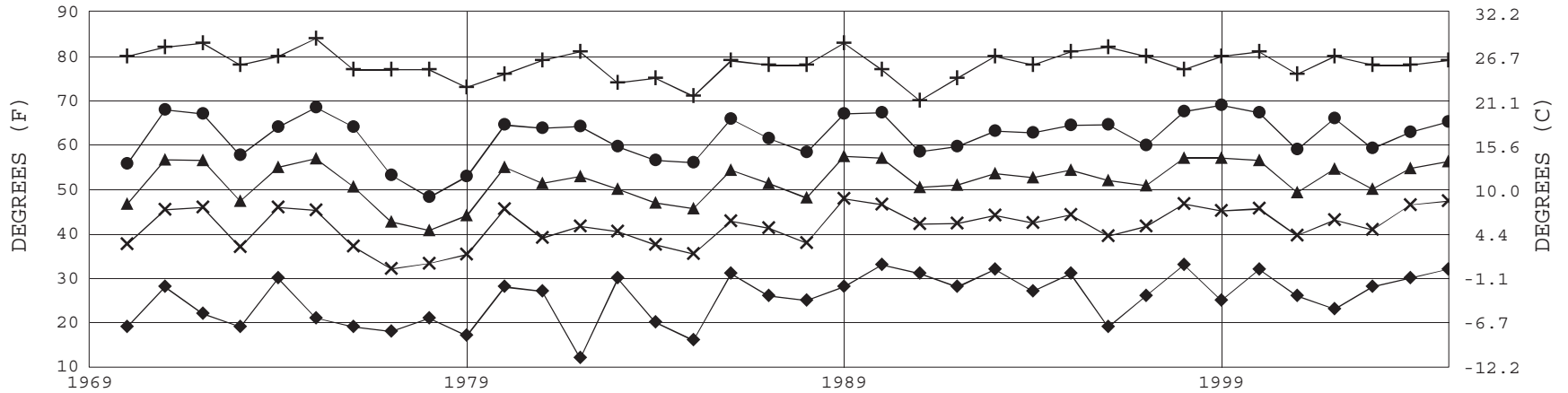
JANUARY 2005

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)		
	FEW	NC		OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		FEW	NC		OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	
SUNRISE: 0715								JAN 25				SUNSET: 1753				SUNRISE: 0712								JAN 31				SUNSET: 1758				
03	FEW	NC			10.00			45	43	44	93	0	00	30.04	30.16	03	OVC	005			2.00	BR			48	46	47	93	12	36	29.94	30.06
06	CLR	NC			9.00			45	43	44	93	3	17	30.01	30.13	06	OVC	005			10.00				47	45	46	93	12	02	29.96	30.08
09	FEW	NC			10.00			57	51	54	81	7	23	30.02	30.14	09	OVC	005			2.50	RA BR			47	45	46	93	10	36	30.01	30.13
12	SCT	NC			10.00			69	53	60	57	12	23	29.97	30.08	12	OVC	008			10.00				48	45	47	89	14	01	29.99	30.11
15	SCT	NC			10.00			73	54	62	51	13	20	29.84	29.95	15	OVC	008			3.00	-RA BR			47	45	46	93	13	36	29.96	30.08
18	FEW	NC			10.00			70	55	61	59	10	20	29.79	29.91	18	OVC	009			6.00	TSRA BR			48	45	47	89	13	02	29.99	30.11
21	SCT	NC			10.00			65	57	60	76	9	21	29.82	29.94	21	OVC	010			10.00				47	43	45	86	15	36	30.03	30.15
24	SCT	NC			10.00			63	59	61	87	8	21	29.83	29.95	24	OVC	011			10.00				46	42	44	86	14	36	30.03	30.15
SUNRISE: 0715								JAN 26				SUNSET: 1754				<h3>3-HOURLY OBSERVATION NOTES</h3> <p>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. Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC= No ceiling detected. &amp; = Original observation contained additional weather elements. See page 3 for additional notes.</p>																
03	SCT	NC			10.00			63	60	61	90	9	23	29.81	29.93																	
06	SCT	NC			10.00			62	59	60	90	8	23	29.82	29.93																	
09	BKN	007			3.00			63	60	61	90	10	23	29.87	29.99																	
12	BKN	250			10.00			71	57	63	61	6	26	29.88	30.00																	
15	BKN	250			10.00			77	51	62	40	6	30	29.82	29.94																	
18	OVC	250			10.00			67	56	61	68	3	25	29.84	29.95																	
21	BKN	250			10.00			63	55	58	76	0	00	29.87	29.99																	
24	OVC	250			10.00			57	53	55	87	0	00	29.90	30.01																	
SUNRISE: 0714								JAN 27				SUNSET: 1755																				
03	OVC	130			9.00			59	53	56	81	6	36	29.89	30.01																	
06	OVC	250			10.00			59	54	56	83	14	08	29.94	30.05																	
09	OVC	028			10.00			58	46	52	65	10	07	30.02	30.13																	
12	OVC	026			10.00		-RA	53	45	49	74	12	06	30.04	30.16																	
15	OVC	020			10.00		-RA	50	44	47	80	13	06	29.94	30.06																	
18	OVC	024			10.00		-RA	50	43	47	77	13	05	29.96	30.08																	
21	OVC	028			9.00			47	44	46	90	13	02	30.02	30.14																	
24	OVC	026			9.00		-RA	47	43	45	86	14	06	30.01	30.13																	
SUNRISE: 0714								JAN 28				SUNSET: 1755																				
03	OVC	020			10.00			45	42	44	90	14	04	29.95	30.07																	
06	OVC	013			5.00		+RA BR	43	41	42	93	10	34	29.95	30.07																	
09	OVC	008			7.00			44	41	43	89	7	36	30.01	30.13																	
12	OVC	008			8.00			48	43	46	83	8	36	30.00	30.12																	
15	OVC	013			10.00			53	46	50	77	8	31	29.94	30.06																	
18	OVC	015			10.00			51	45	48	80	8	01	29.96	30.09																	
21	OVC	011			10.00			50	45	48	83	7	03	30.02	30.14																	
24	OVC	009			10.00			48	44	46	86	5	03	30.03	30.15																	
SUNRISE: 0713								JAN 29				SUNSET: 1756																				
03	OVC	007			10.00			47	43	45	86	0	00	30.00	30.12																	
06	OVC	005			9.00			46	44	45	93	3	17	30.01	30.13																	
09	OVC	005			5.00		BR	47	44	46	90	7	34	30.07	30.19																	
12	OVC	010			8.00			49	45	47	86	9	35	30.07	30.19																	
15	OVC	014			10.00			51	45	48	80	9	36	30.00	30.12																	
18	OVC	014			7.00			50	44	47	80	13	01	30.01	30.13																	
21	OVC	014			10.00			49	44	47	83	6	03	30.01	30.14																	
24	OVC	015			10.00			49	43	46	80	9	04	30.02	30.14																	
SUNRISE: 0713								JAN 30				SUNSET: 1757																				
03	OVC	013			10.00			48	43	46	83	13	04	29.98	30.10																	
06	OVC	009			8.00			47	43	45	86	13	05	30.00	30.12																	
09	OVC	009			6.00		BR	46	42	44	86	13	06	30.02	30.14																	
12	OVC	012			9.00			49	43	46	80	10	09	30.00	30.11																	
15	OVC	026			10.00			52	44	48	75	9	08	29.91	30.03																	
18	OVC	019			9.00			51	45	48	80	10	08	29.89	30.01																	
21	OVC	015			10.00			52	47	49	83	5	36	29.92	30.04																	
24	OVC	005			2.00		-RA BR	49	48	48	97	8	01	29.95	30.07																	

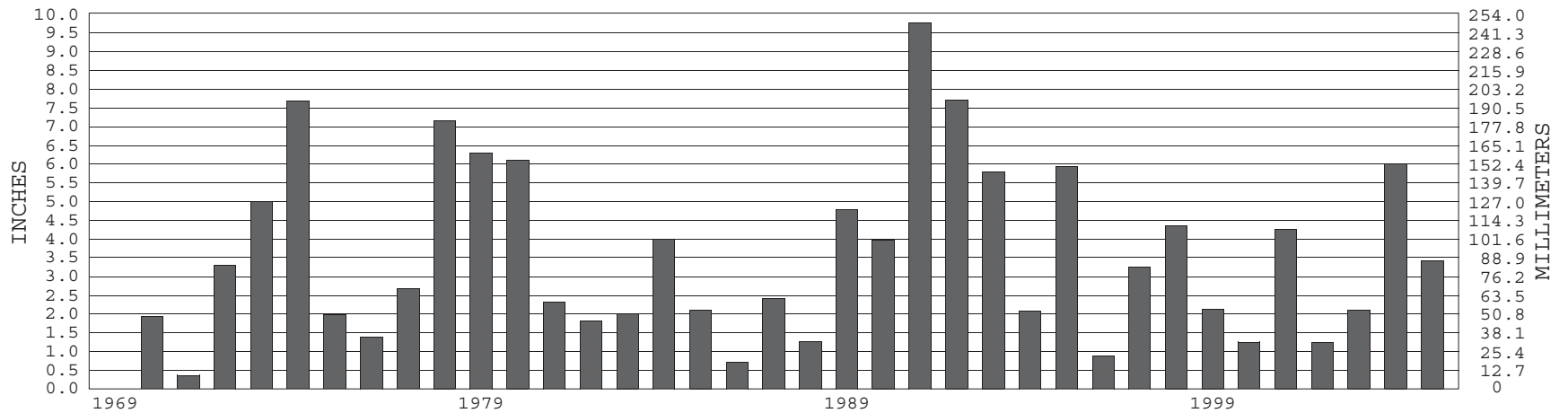
### HOUSTON, TX JANUARY TEMPERATURES



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

Long-Term (1969-2005) Mean: 50.5      1971-2000 Normal: 51.8

### HOUSTON, TX JANUARY PRECIPITATION



Long-Term (1969-2005) Mean Monthly Total: 3.50

1971-2000 Normal: 3.68



JANUARY 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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Rocket Center, WV 26726

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