



# DECEMBER 2003

## 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

DECEMBER 2003  
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	53	64	7	54	58	1	0	RA	0		0.0	T	30.25	30.37	6.1	07	6.9	18	06	17	06	01		
02	68	48	58	2	48	52	7	0	BR	0		0.0	0.00	30.21	30.32	4.0	10	6.7	14	10	12	16	02		
03	73	52	63	7	55	58	2	0	RA BR	0		0.0	T	29.96	30.08	2.0	27	5.4	18	28	14	28	03		
04	67	44	56	0	44	49	9	0		0		0.0	0.00	30.03	30.15	4.9	35	5.4	15	36	13	01	04		
05	59	41	50	-6	31	41	15	0		0		0.0	0.00	30.21	30.33	10.4	34	10.7	32	01	28	01	05		
06	54	33	44*	-11	29	37	21	0		0		0.0	0.00	30.26	30.38	4.0	35	5.1	13	01	10	01	06		
07	64	35	50	-5	43	46	15	0	BR	0		0.0	0.00	30.03	30.14	5.6	14	5.8	22	13	18	13	07		
08	75	49	62	7	56	59	3	0	BR	0		0.0	0.00	29.80	29.91	7.8	17	8.0	24	19	20	18	08		
09	73	48	61	6	51	57	4	0	TS TSRA RA FG BR	0		0.0	0.77	29.72	29.83	7.1	25	13.8	39*	30	30*	31	09		
10	57	37	47	-8	28	40	18	0		0		0.0	0.00	30.00	30.12	11.5	31	12.0	31	31	23	31	10		
11	58	34	46	-8	34	41	19	0		0		0.0	0.00	29.98	30.10	6.4	11	6.9	16	13	14	13	11		
12	59	48	54	0	48	52	11	0	TSRA RA BR VCTS	0		0.0	1.15	29.83	29.95	10.8	09	13.1	32	12	26	12	12		
13	54	36	45	-9	43	45	20	0		0		0.0	0.00	29.91	30.02	10.1	33	10.5	25	33	21	33	13		
14	60	31	46	-8	37	41	19	0	BR	0		0.0	0.00	30.02	30.14	2.3	16	4.0	14	17	12	17	14		
15	73	45	59	5	55	58	6	0		0		0.0	0.00	29.81	29.92	9.4	17	9.5	37	17	26	18	15		
16	64	41	53	0	32	44	12	0	RA HZ	0		0.0	T	30.09	30.21	13.4	31	13.7	31	30	25	31	16		
17	60	31*	46	-7	26	39	19	0	FU	0		0.0	0.00	30.25	30.36	4.5	24	5.6	16	27	13	27	17		
18	67	42	55	2	31	43	10	0		0		0.0	0.00	30.21	30.33	5.4	31	7.7	17	01	15	36	18		
19	64	37	51	-2	30	41	14	0		0		0.0	0.00	30.30	30.42	5.1	33	5.5	21	36	16	32	19		
20	63	34	49	-4	32	41	16	0		0		0.0	0.00	30.23	30.35	5.1	14	5.3	16	15	13	14	20		
21	72	45	59	6	51	54	6	0		0		0.0	0.00	30.11	30.22	8.3	15	8.9	24	14	20	15	21		
22	76	54	65	12	59	62	0	0		0		0.0	0.00	29.90	30.01	9.3	18	9.6	26	17	20	19	22		
23	67	42	55	2	39	46	10	0	RA BR	0		0.0	0.53	29.98	30.10	11.5	32	12.3	37	33	29	33	23		
24	60	34	47	-5	34	42	18	0		0		0.0	0.00	30.06	30.18	0.2	21	1.7	10	13	9	12	24		
25	61	43	52	0	44	48	13	0	RA	0		0.0	T	30.05	30.17	7.7	11	7.8	22	12	17	09	25		
26	66	51	59	7	55	57	6	0	BR	0		0.0	0.00	30.06	30.17	10.1	12	10.6	24	12	21	12	26		
27	74	61	68*	16	62	63	0	3	RA BR	0		0.0	T	29.93	30.05	12.2	14	12.4	26	16	22	16	27		
28	76*	48	62	10	59	60	3	0	TSRA RA BR	0		0.0	0.52	29.87	29.99	2.4	14	11.2	28	16	22	15	28		
29	56	39	48	-4	37	44	17	0	RA	0		0.0	0.02	30.04	30.16	7.0	32	7.5	26	32	23	32	29		
30	59	34	47	-5	33	40	18	0		0		0.0	0.00	30.18	30.29	4.0	14	5.0	16	14	14	13	30		
31	69	40	55	3	49	52	10	0	RA BR	0		0.0	T	30.15	30.26	5.7	10	7.3	16	14	14	14	31		
MONTHLY AVERAGES										TOTALS->				<- MONTHLY AVERAGES											
DEPARTURE FROM NORMAL														SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.15 DATE: 12				SEA LEVEL PRESSURE				DATE TIME							
MONTHLY TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: 0.0 DATE:				MAXIMUM				: 30.50 19 0953							
SEASON TO DATE TOTAL DEPARTURE										GREATEST SNOW DEPTH: 0 DATE:				MINIMUM				: 29.74 09 1453							
HEATING: 342 -25 459 -135										NUMBER OF DAYS WITH >				MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 2				PRECIPITATION ≥ 0.01 INCH: 5			
COOLING: 3 -22 3193 300														MAXIMUM TEMP ≤ 32: 0				MINIMUM TEMP ≤ 0: 0				PRECIPITATION ≥ 0.10 INCH: 4			
														THUNDERSTORMS: 3				HEAVY FOG: 0				SNOWFALL ≥ 1.0 INCH: 0			

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## HOUSTON, TX

DECEMBER 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			T	T									01		T	
02													02													02		0.00	
03													03		T										03		T		
04													04												04		0.00		
05													05												05		0.00		
06													06												06		0.00		
07													07												07		0.00		
08													08												08		0.00		
09				T									09	0.01	0.05										09		0.77		
10											0.53	0.18	10												10		0.00		
11													11												11		0.00		
12													12												12		1.15		
13													13												13		0.00		
14													14												14		0.00		
15													15												15		0.00		
16			T	T									16												16		T		
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	0.11	0.11	0.23	0.08									22												22		0.00		
23													23												23		0.53		
24													24												24		0.00		
25													25												25		T		
26													26												26		0.00		
27													27												27		T		
28													28												28		0.52		
29	T			T	0.02	T	T	T					29												29		0.02		
30													30												30		0.00		
31													31												31		T		

### MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)												
Ending Date												
Ending Time (Hour/Min)												

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 DECEMBER 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							4.00	10.00	
03							3.00	10.00	
04							10.00	10.00	
05							8.00	10.00	
06							10.00	10.00	
07							6.00	10.00	
08							6.00	10.00	
09							.50	10.00	
10							10.00	10.00	
11							10.00	10.00	
12							2.50	10.00	
13							7.00	10.00	
14							5.00	10.00	
15							10.00	10.00	
16							4.00	10.00	
17							10.00	10.00	
18							10.00	10.00	
19							10.00	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							2.50	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							6.00	10.00	
27							6.00	10.00	
28							1.00	10.00	
29							10.00	10.00	
30							8.00	10.00	
31							4.00	10.00	
<b>MONTHLY AVGS</b>							7.26	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 0            4            18									

# OBSERVATIONS AT 3-HOURLY INTERVALS

## HOUSTON, TX DECEMBER 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		DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		SKY COVER	CEILING 100'S OF FT		DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
	OBSERVATION TIME (LST)	EFF CLD AMT Oktas		VISIBILITY (MILES)												OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)					
SUNRISE: 0659				DEC 01	SUNSET: 1721				SUNRISE: 0704				DEC 07	SUNSET: 1722									
03	OVC	060	10.00	59	56	57	90	6	02	30.15	30.27	03	CLR	NC	8.00	36	34	35	93	0	00	30.13	30.25
06	OVC	065	10.00	58	55	56	90	6	04	30.20	30.32	06	BKN	029	7.00	35	33	34	93	0	00	30.10	30.22
09	SCT	NC	10.00	62	54	58	75	5	10	30.28	30.40	09	BKN	031	7.00	44	40	42	85	6	11	30.10	30.22
12	SCT	NC	10.00	73	52	61	48	10	07	30.28	30.40	12	FEW	NC	8.00	58	44	51	60	9	13	30.05	30.17
15	SCT	NC	10.00	74	51	61	45	10	07	30.24	30.36	15	SCT	NC	10.00	63	46	54	54	13	13	29.96	30.08
18	FEW	NC	10.00	68	53	60	59	7	06	30.27	30.39	18	CLR	NC	10.00	56	49	52	77	14	13	29.93	30.05
21	CLR	NC	10.00	60	53	56	78	7	06	30.32	30.43	21	FEW	NC	10.00	51	50	51	96	6	15	29.92	30.04
24	CLR	NC	10.00	54	52	53	93	0	00	30.32	30.44	24	SCT	NC	8.00	49	48	48	97	0	00	29.90	30.02
SUNRISE: 0700				DEC 02	SUNSET: 1721				SUNRISE: 0705				DEC 08	SUNSET: 1722									
03	CLR	NC	10.00	52	50	51	93	7	05	30.30	30.42	03	BKN	250	6.00	50	49	49	96	0	00	29.85	29.98
06	CLR	NC	10.00	49	46	48	90	6	01	30.32	30.43	06	BKN	037	7.00	51	50	51	96	0	00	29.83	29.95
09	FEW	NC	10.00	51	41	46	69	6	07	30.33	30.45	09	BKN	036	10.00	59	56	57	90	3	16	29.85	29.97
12	SCT	NC	10.00	62	45	53	54	5	09	30.24	30.36	12	BKN	038	10.00	72	58	64	61	13	18	29.82	29.93
15	FEW	NC	10.00	67	47	56	49	9	10	30.13	30.25	15	OVC	045	10.00	74	57	64	56	15	17	29.74	29.86
18	SCT	NC	10.00	60	49	54	67	7	16	30.11	30.23	18	SCT	NC	10.00	69	61	64	76	13	16	29.73	29.85
21	BKN	250	8.00	56	53	54	90	9	15	30.06	30.18	21	SCT	NC	10.00	67	61	63	81	13	16	29.73	29.85
24	SCT	NC	5.00	55	55	55	100	7	12	30.03	30.15	24	BKN	250	10.00	65	61	63	87	8	16	29.72	29.84
SUNRISE: 0701				DEC 03	SUNSET: 1721				SUNRISE: 0706				DEC 09	SUNSET: 1722									
03	BKN	250	5.00	54	53	53	97	3	12	29.98	30.10	03	BKN	055	10.00	66	62	64	87	7	17	29.69	29.81
06	BKN	085	4.00	53	52	52	96	0	00	29.97	30.09	06	BKN	130	10.00	67	64	65	91	14	16	29.65	29.77
09	BKN	085	5.00	61	57	59	87	6	14	29.98	30.10	09	OVC	050	10.00	70	64	66	82	15	16	29.68	29.80
12	BKN	070	10.00	73	60	65	64	12	26	29.96	30.08	12	OVC	028	10.00	71	67	68	87	12	24	29.64	29.76
15	SCT	NC	10.00	71	59	64	66	12	25	29.90	30.01	15	BKN	070	10.00	66	50	57	56	8	26	29.62	29.74
18	FEW	NC	10.00	67	58	62	73	3	25	29.91	30.02	18	SCT	NC	10.00	64	34	50	33	22	30	29.71	29.83
21	BKN	042	9.00	61	58	59	90	7	32	29.96	30.08	21	CLR	NC	10.00	52	29	42	41	18	29	29.85	29.97
24	CLR	NC	10.00	53	44	49	72	5	34	29.99	30.11	24	CLR	NC	10.00	48	29	40	48	15	29	29.91	30.02
SUNRISE: 0702				DEC 04	SUNSET: 1721				SUNRISE: 0706				DEC 10	SUNSET: 1722									
03	CLR	NC	10.00	49	41	45	74	3	31	29.99	30.11	03	CLR	NC	10.00	46	30	39	54	20	30	29.92	30.04
06	FEW	NC	10.00	47	41	44	80	8	35	30.01	30.13	06	CLR	NC	10.00	44	28	38	53	17	30	29.97	30.09
09	SCT	NC	10.00	50	43	47	77	5	36	30.06	30.18	09	CLR	NC	10.00	45	26	37	48	17	31	30.05	30.17
12	BKN	250	10.00	61	44	52	54	7	34	30.04	30.16	12	CLR	NC	10.00	53	22	41	30	16	34	30.03	30.15
15	BKN	250	10.00	65	43	54	45	10	33	30.00	30.12	15	CLR	NC	10.00	56	24	43	29	16	32	30.00	30.12
18	BKN	250	10.00	61	45	53	56	6	01	30.02	30.14	18	CLR	NC	10.00	50	27	40	41	3	30	30.00	30.12
21	FEW	NC	10.00	51	45	48	80	6	36	30.06	30.18	21	CLR	NC	10.00	45	30	39	56	6	26	30.02	30.14
24	FEW	NC	10.00	46	44	45	93	3	27	30.09	30.21	24	CLR	NC	10.00	38	35	37	89	0	00	30.03	30.15
SUNRISE: 0703				DEC 05	SUNSET: 1722				SUNRISE: 0707				DEC 11	SUNSET: 1722									
03	CLR	NC	8.00	42	41	42	96	5	35	30.09	30.21	03	CLR	NC	10.00	35	33	34	93	0	00	30.00	30.12
06	SCT	NC	10.00	43	41	42	93	7	33	30.16	30.28	06	CLR	NC	10.00	36	30	34	79	5	04	30.00	30.12
09	SCT	NC	10.00	49	39	44	69	18	35	30.25	30.37	09	BKN	250	10.00	43	30	38	60	6	10	30.03	30.15
12	SCT	NC	10.00	56	27	44	33	17	35	30.25	30.37	12	BKN	250	10.00	54	28	43	37	10	10	30.00	30.11
15	SCT	NC	10.00	57	23	43	27	18	34	30.18	30.30	15	BKN	250	10.00	57	34	46	42	12	13	29.94	30.06
18	SCT	NC	10.00	49	22	38	35	8	32	30.21	30.33	18	BKN	120	10.00	52	39	46	61	7	13	29.94	30.06
21	FEW	NC	10.00	43	24	36	47	7	32	30.28	30.40	21	BKN	120	10.00	49	40	45	71	10	11	29.94	30.06
24	CLR	NC	10.00	41	21	34	45	7	32	30.32	30.44	24	SCT	NC	10.00	48	39	44	71	7	10	29.93	30.05
SUNRISE: 0703				DEC 06	SUNSET: 1722				SUNRISE: 0708				DEC 12	SUNSET: 1723									
03	CLR	NC	10.00	36	23	31	59	9	33	30.31	30.43	03	OVC	041	10.00	50	42	46	74	9	10	29.91	30.03
06	CLR	NC	10.00	34	24	30	67	8	34	30.31	30.43	06	OVC	043	10.00	52	43	48	72	10	09	29.89	30.01
09	CLR	NC	10.00	40	26	35	58	7	36	30.35	30.47	09	OVC	034	10.00	52	43	48	72	14	09	29.92	30.04
12	CLR	NC	10.00	48	29	40	48	3	VR	30.30	30.42	12	OVC	070	10.00	57	48	52	72	13	11	29.88	30.00
15	CLR	NC	10.00	53	31	43	43	6	04	30.20	30.32	15	OVC	019	9.00	58	50	54	75	12	10	29.77	29.89
18	FEW	NC	10.00	48	35	42	61	3	01	30.19	30.31	18	OVC	013	10.00	58	54	56	87	18	11	29.72	29.84
21	CLR	NC	10.00	42	36	39	79	0	00	30.18	30.30	21	OVC	006	2.50	56	56	56	100	13	35	29.76	29.88
24	CLR	NC	10.00	38	35	37	89	0	00	30.18	30.29	24	OVC	006	8.00	54	54	54	100	13	35	29.74	29.86



# OBSERVATIONS AT 3-HOURLY INTERVALS

# HOUSTON, TX

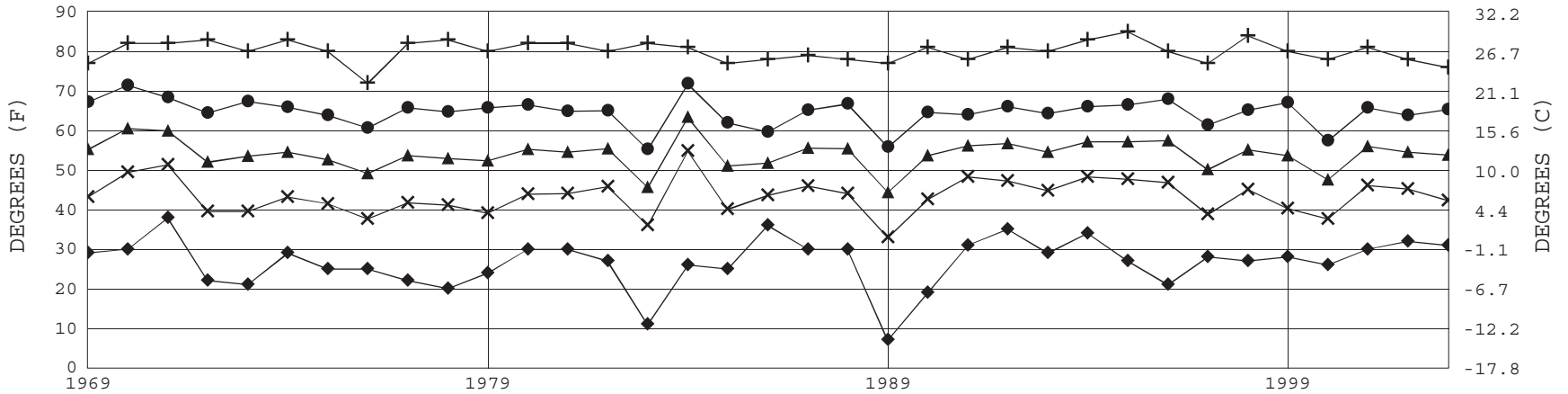
DECEMBER 2003

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)	
	SKY COVER	CEILING 100'S OF FT		OBSERVATION TIME (LST)	EFF CLD AMT Ok/as			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 Ok/as			DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0715 DEC 25								SUNSET: 1728								SUNRISE: 0717 DEC 31								SUNSET: 1732							
03	BKN	250			10.00			43	41	42	93	0	00	30.04	30.16	03	OVC	024			10.00			42	39	41	89	3	36	30.14	30.26
06	BKN	250			10.00			43	41	42	93	0	00	30.02	30.14	06	OVC	026			10.00			45	41	43	86	7	03	30.15	30.27
09	BKN	130			10.00			50	42	46	74	8	11	30.09	30.21	09	OVC	080			10.00			51	43	47	74	7	07	30.20	30.32
12	BKN	130			10.00			58	44	51	60	15	11	30.05	30.17	12	BKN	080			10.00			61	50	55	67	7	07	30.16	30.29
15	BKN	065			10.00			60	46	53	60	15	11	30.00	30.12	15	OVC	030			10.00			68	56	61	66	12	14	30.10	30.22
18	OVC	065			10.00			56	47	51	72	9	11	30.03	30.16	18	OVC	018			10.00			64	56	59	75	13	15	30.12	30.24
21	OVC	110			10.00			53	42	48	66	12	12	30.04	30.16	21	OVC	011			10.00			62	57	59	84	9	11	30.14	30.26
24	OVC	010			10.00			53	48	50	83	9	10	30.05	30.17	24	OVC	006			4.00 BR			59	59	59	100	8	13	30.12	30.24
SUNRISE: 0715 DEC 26								SUNSET: 1729								<b>3-HOURLY OBSERVATION NOTES</b>															
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.																															
& = Original observation contained additional weather elements.																															
See page 3 for additional notes.																															
03	OVC	008			10.00			53	50	51	89	10	09	30.06	30.18																
06	BKN	039			10.00			51	50	51	96	6	08	30.06	30.19																
09	BKN	045			10.00			57	54	55	90	12	12	30.12	30.24																
12	OVC	033			10.00			63	58	60	84	15	13	30.09	30.20																
15	OVC	013			10.00			63	59	61	87	16	14	30.04	30.16																
18	OVC	006			8.00			60	58	59	93	9	12	30.03	30.15																
21	OVC	005			6.00	BR		59	58	58	96	9	12	30.02	30.13																
24	OVC	022			8.00			61	59	60	93	8	12	29.99	30.11																
SUNRISE: 0716 DEC 27								SUNSET: 1729																							
03	OVC	015			8.00			61	61	61	100	8	11	29.97	30.09																
06	OVC	006			6.00	BR		62	62	62	100	8	12	29.96	30.08																
09	BKN	017			10.00			64	62	63	93	8	13	29.99	30.11																
12	OVC	025			10.00			72	62	66	71	20	15	29.93	30.04																
15	BKN	032			10.00			71	63	66	76	17	13	29.88	29.99																
18	BKN	025			10.00			65	62	63	90	20	13	29.89	30.01																
21	OVC	013			10.00			65	61	63	87	15	12	29.90	30.01																
24	OVC	012			10.00			64	61	62	90	14	14	29.88	30.00																
SUNRISE: 0716 DEC 28								SUNSET: 1730																							
03	OVC	011			8.00			64	63	63	96	7	13	29.89	30.00																
06	OVC	004			7.00			63	62	62	97	9	13	29.86	29.98																
09	OVC	004			2.00	BR		65	64	64	97	7	10	29.90	30.02																
12	BKN	250			10.00			74	63	67	69	20	16	29.84	29.96																
15	SCT	NC			10.00			76	64	68	67	18	15	29.77	29.88																
18	OVC	025			10.00	-RA		55	54	54	96	10	33	29.85	29.96																
21	OVC	027			9.00	-RA		50	48	49	93	16	33	29.91	30.03																
24	OVC	030			10.00			48	47	47	96	12	36	29.92	30.04																
SUNRISE: 0716 DEC 29								SUNSET: 1731																							
03	OVC	060			10.00			48	45	47	89	0	00	29.95	30.07																
06	OVC	110			10.00			48	45	47	89	5	27	29.97	30.09																
09	OVC	130			10.00			48	43	46	83	10	29	30.04	30.16																
12	BKN	250			10.00			55	32	45	42	13	31	30.05	30.16																
15	SCT	NC			10.00			56	25	43	30	18	32	30.02	30.14																
18	SCT	NC			10.00			51	27	41	39	5	32	30.08	30.20																
21	CLR	NC			10.00			42	36	39	79	3	30	30.15	30.27																
24	CLR	NC			10.00			39	35	37	86	0	00	30.16	30.28																
SUNRISE: 0717 DEC 30								SUNSET: 1731																							
03	CLR	NC			10.00			37	34	36	89	0	00	30.17	30.29																
06	CLR	NC			10.00			34	32	33	92	0	00	30.18	30.29																
09	FEW	NC			10.00			42	33	38	71	0	00	30.23	30.35																
12	CLR	NC			10.00			55	27	43	34	8	15	30.21	30.33																
15	CLR	NC			10.00			59	30	46	33	7	17	30.14	30.26																
18	FEW	NC			10.00			53	37	46	55	8	14	30.14	30.27																
21	CLR	NC			10.00			46	39	43	77	7	14	30.16	30.29																
24	CLR	NC			10.00			40	38	39	93	3	01	30.14	30.26																

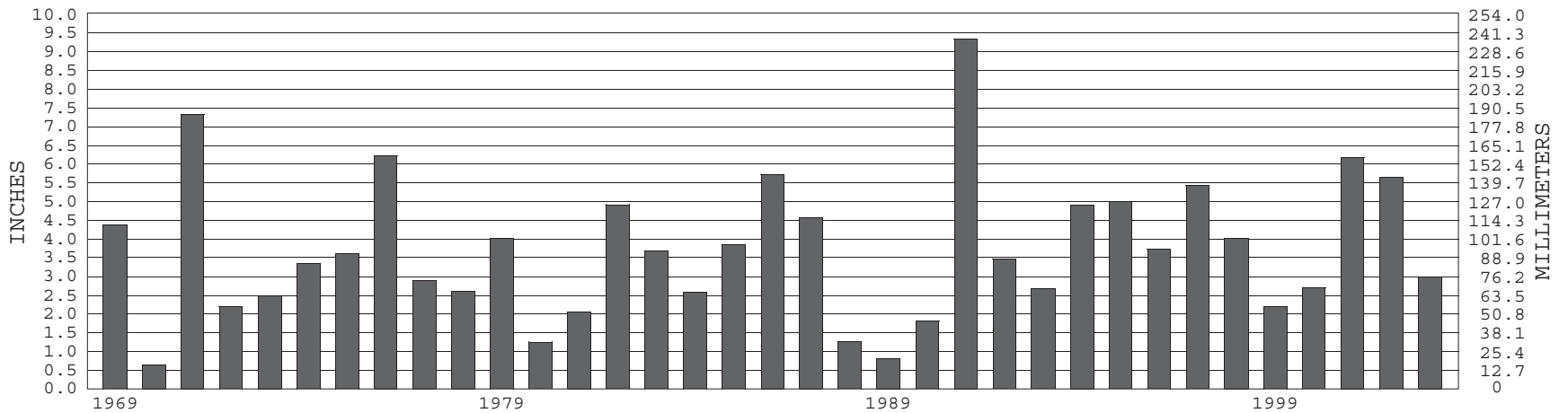
### HOUSTON, TX DECEMBER TEMPERATURES



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

Long-Term (1969-2003) Mean: 54.1      1961-1990 Normal: 53.7

### HOUSTON, TX DECEMBER PRECIPITATION



Long-Term (1969-2003) Mean Monthly Total: 3.73

1961-1990 Normal: 3.69



DECEMBER 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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