



# NOVEMBER 2004

## 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

NOVEMBER 2004  
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	77	65	71	6	67	67	0	6	TSRA RA BR	0		0.0	1.77	29.66	29.77	3.6	16	6.8	28	17	21	31	01	
02	70	58	64	-1	61	62	1	0	TSRA RA BR	0		0.0	1.07	29.80	29.92	7.0	34	9.8	22	30	17	30	02	
03	64	49	57	-8	48	52	8	0		0		0.0	0.00	29.95	30.07	9.1	30	9.2	23	29	18	31	03	
04	72	45	59	-5	42	50	6	0		0		0.0	0.00	30.10	30.22	5.4	31	6.0	20	30	15	34	04	
05	73	47	60	-4	45	51	5	0		0		0.0	0.00	30.18	30.29	2.5	35	3.9	13	01	10	33	05	
06	77	45	61	-3	48	54	4	0		0		0.0	0.00	30.05	30.17	1.6	21	2.6	12	26	9	26	06	
07	80	48	64	1	54	58	1	0		0		0.0	0.00	30.01	30.13	2.6	26	3.3	17	24	14	24	07	
08	80	52	66	3	55	59	0	1	BR	0		0.0	0.00	30.10	30.21	2.3	05	3.2	14	02	10	07	08	
09	75	50	63	0	51	55	2	0		0		0.0	0.00	30.10	30.22	4.1	08	6.1	15	13	12	12	09	
10	83*	54	69	6	60	63	0	4	BR	0		0.0	0.00	29.93	30.05	4.1	15	6.2	21	16	18	17	10	
11	73	53	63	1	54	58	2	0	RA MIFG	0		0.0	0.02	29.98	30.09	7.9	33	9.1	23	33	21	32	11	
12	55	48	52	-10	44	48	13	0		0		0.0	0.00	30.08	30.19	9.5	35	10.0	23	02	20	01	12	
13	56	52	54	-7	48	51	11	0	RA BR HZ	0		0.0	T	30.12	30.24	9.1	05	9.6	20	08	16	08	13	
14	61	53	57	-4	51	53	8	0		0		0.0	0.00	30.22	30.34	12.0	05	12.2	20	07	17	05	14	
15	69	60	65	4	61	63	0	0	RA BR HZ	0		0.0	T	30.21	30.33	11.6	09	11.9	22	10	20	11	15	
16	75	65	70	9	64	66	0	5	RA BR HZ	0		0.0	T	30.12	30.24	12.0	10	12.3	25	11	21	11	16	
17	73	65	69	9	66	67	0	4	TS TSRA RA BR	0		0.0	3.37	29.98	30.10	7.0	11	10.3	23	15	20	30	17	
18	73	58	66	6	60	62	0	1	DZ BR	0		0.0	T	29.95	30.07	4.1	31	4.6	12	30	9	31	18	
19	75	54	65	5	60	62	0	0	RA MIFG BR	0		0.0	0.01	29.90	30.01	3.2	11	4.8	16	13	14	14	19	
20	68	60	64	4	62	63	1	0	TSRA RA BR	0		0.0	1.16	29.87	29.98	7.6	07	8.6	18	11	16	11	20	
21	69	66	68	9	66	66	0	3	TSRA RA BR	0		0.0	0.29	29.94	30.06	3.6	02	4.8	21	02	18	02	21	
22	71	64	68	9	66	67	0	3	TS TSRA RA FG+ BR VCTS	0		0.0	3.09	29.85	29.96	4.0	06	8.3	26	33	23	33	22	
23	80	62	71*	12	69	71	0	6	TS TSRA RA BR SQ	0		0.0	0.48	29.59	29.70	8.9	19	10.5	47*	30	35*	30	23	
24	62	45	54	-5	45	50	11	0		0		0.0	0.00	29.80	29.91	11.8	30	12.1	31	31	26	32	24	
25	62	40	51	-7	39	45	14	0		0		0.0	0.00	30.03	30.14	2.2	15	3.5	14	13	13	13	25	
26	74	45	60	2	58	60	5	0	RA BR	0		0.0	0.16	29.80	29.91	8.9	16	9.5	28	16	22	17	26	
27	71	48	60	2	49	56	5	0		0		0.0	0.00	29.83	29.95	8.4	30	10.9	32	31	25	32	27	
28	68	44	56	-1	50	53	9	0		0		0.0	0.00	29.89	30.01	8.9	12	9.6	26	14	23	13	28	
29	78	60	69	12	66	68	0	4	RA BR	0		0.0	0.08	29.79	29.90	3.8	15	8.5	23	35	16	33	29	
30	60	39*	50*	-7	44	46	15	0	RA BR	0		0.0	0.23	30.06	30.18	10.2	33	10.4	25	33	20	33	30	

70.8	53.1	62.0	■ ■	55.1	58.2	4.0	1.2	< MONTHLY AVERAGES	TOTALS-->	0.0	11.73	29.96	30.08	1.7	04	8.0	<- MONTHLY AVERAGES
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-1.2	3.3	1.1	■ ■	-----DEPARTURE FROM NORMAL----->						7.54	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3							
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<b>DEGREE DAYS</b>				GREATEST 24-HR PRECIPITATION: 3.37 DATE: 17				SEA LEVEL PRESSURE DATE TIME							
MONTHLY TOTAL DEPARTURE				SEASON TO DATE TOTAL DEPARTURE				GREATEST 24-HR SNOWFALL: 0.0 DATE:				MAXIMUM MINIMUM : 30.39 15 0853			
HEATING: 121 -68				2124 -103				GREATEST SNOW DEPTH: 0 DATE:				MINIMUM : 29.57 23 2053			
COOLING: 37 -28				3286 418				NUMBER OF DAYS WITH →		MAXIMUM TEMP ≥ 90: 0		MINIMUM TEMP ≤ 32: 0		PRECIPITATION ≥ 0.01 INCH : 12	
								MAXIMUM TEMP ≤ 32 : 0		MINIMUM TEMP ≤ 0 : 0		PRECIPITATION ≥ 0.10 INCH : 9			
								THUNDERSTORMS : 7		HEAVY FOG : 1		SNOWFALL ≥ 1.0 INCH : 0			

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## HOUSTON, TX

NOVEMBER 2004

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	0.09	0.09	0.08	0.19	0.01							01		1.77		
02	T	T				0.03	0.02	0.39	0.26	0.09	0.11	0.16	02						0.01	0.01	T	T	0.08	0.15	0.02	02	1.07		
03		0.01	0.17	0.02	0.50	0.26	0.06			T	0.01	T	03												03		0.00		
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													09													09		0.00	
10													10													10		0.00	
11								T	0.02				11													11		0.02	
12													12													12		0.00	
13													13													13		T	
14													14													14		0.00	
15													15							T	T	T	T			15		T	
16				T	T	T							16													16		T	
17	0.04	0.11	0.10	0.09	0.03	0.09	0.25	0.13	0.18	0.08	0.08	T	17	0.15	T	T	0.02	0.06	0.32	1.13	0.50	T	T	0.01	17		3.37		
18						T	T						18													18		T	
19													19			0.01						T	T			19		0.01	
20	0.03	0.08	0.04		T	T	0.30	0.09	0.28	0.17	0.15	0.01	20		T						T	T			20		1.16		
21	0.02	T	T	0.01	0.02	0.02				T	T	0.05	21	T	0.02	0.05	0.04	0.01	T		T				21		0.29		
22									0.01	0.38	0.46	T	22		T	0.45	1.05	0.08	0.09	0.32	0.15	0.03	0.03	0.01	22		3.09		
23	T	0.06									T	T	23	0.01	0.08	0.04	0.02	0.01	T		T	T	0.26	0.03	23		0.48		
24													24													24		0.00	
25													25													25		0.00	
26													26							T	0.05	0.11	T	T		26		0.16	
27													27													27		0.00	
28													28													28		0.00	
29													29			0.05						0.01	T	0.02		29		0.08	
30	T	T	T	0.01	0.08	0.05	T	0.02	0.03	0.03	T		30	0.01	T	T									30		0.23		

### MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.42	.56	.60	.75	1.02	1.21	1.33	1.48	1.72	1.88	1.95	1.96
Ending Date	22	22	22	17	17	17	17	17	17	17	17	17
Ending Time (Hour/Min)	1535	1539	1544	1821	1822	1822	1824	1914	1918	1930	1935	1935

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 NOVEMBER 2004

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							1.50	10.00	
02							2.00	10.00	
03							10.00	10.00	
04							10.00	10.00	
05							10.00	10.00	
06							9.00	10.00	
07							10.00	10.00	
08							2.00	10.00	
09							10.00	10.00	
10							6.00	10.00	
11							8.00	10.00	
12							10.00	10.00	
13							2.00	10.00	
14							8.00	10.00	
15							4.00	9.00	
16							1.50	10.00	
17							1.00	10.00	
18							.50	10.00	
19							2.50	10.00	
20							.25	10.00	
21							.13	10.00	
22							.06	10.00	
23							1.00	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							2.00	10.00	
27							10.00	10.00	
28							10.00	10.00	
29							1.00	10.00	
30							2.50	10.00	
<b>MONTHLY AVGS</b>							5.65	9.93	
<b>SUNSHINE (MINUTES)</b>									
Total:                      Possible: Percent Possible:									
<b>NUMBER OF DAYS WITH:</b>									
<b>SKY CONDITION</b>									
CLR   PTLY CLDY   CLOUDY   MISSING 30									
<b>MINIMUM VISIBILITY (MILES)</b>									
<=0.25   <=3.0   >=7.0 1                      12                      14									

# OBSERVATIONS AT 3-HOURLY INTERVALS

# HOUSTON, TX

NOVEMBER 2004

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: 0636					NOV 01					SUNSET: 1734					SUNRISE: 0640					NOV 07					SUNSET: 1730				
03	BKN	080	10.00		75	72	73	90	8	16	29.64	29.75	03	CLR	NC	10.00		52	50	51	93	0	00	29.98	30.10				
06	OVC	070	6.00	RA BR	76	72	73	88	18	18	29.61	29.73	06	CLR	NC	10.00		50	49	49	96	3	17	29.99	30.11				
09	OVC	028	2.00	+TSRA BR	66	64	65	93	6	35	29.70	29.81	09	FEW	NC	10.00		63	57	60	81	7	26	30.05	30.17				
12	OVC	022	2.00	RA BR	66	64	65	93	6	10	29.67	29.78	12	FEW	NC	10.00		75	57	64	54	6	27	30.03	30.15				
15	BKN	032	3.00	+RA BR	65	63	64	93	3	13	29.63	29.75	15	SCT	NC	10.00		79	53	64	41	6	27	29.97	30.09				
18	BKN	070	10.00		65	64	64	97	6	11	29.63	29.75	18	SCT	NC	10.00		67	56	61	68	3	20	29.99	30.11				
21	OVC	065	10.00		67	65	66	93	8	30	29.66	29.78	21	BKN	250	10.00		62	56	59	81	0	00	30.02	30.14				
24	BKN	090	10.00		67	65	66	93	3	36	29.66	29.78	24	BKN	250	10.00		58	56	57	93	3	32	30.03	30.15				
SUNRISE: 0637					NOV 02					SUNSET: 1733					SUNRISE: 0641					NOV 08					SUNSET: 1729				
03	OVC	055	10.00	-TSRA	65	63	64	93	9	01	29.66	29.78	03	SCT	NC	10.00		56	55	55	97	0	00	30.04	30.16				
06	OVC	020	5.00	+TSRA BR	65	63	64	93	14	03	29.73	29.84	06	CLR	NC	10.00		53	52	52	96	0	00	30.07	30.19				
09	OVC	012	5.00	-RA BR	65	62	63	90	12	36	29.79	29.91	09	OVC	140	8.00		63	59	61	87	0	00	30.15	30.27				
12	OVC	035	10.00		66	61	63	84	9	01	29.81	29.93	12	SCT	NC	10.00		77	56	64	48	5	VR	30.12	30.24				
15	OVC	032	10.00		69	61	64	76	8	35	29.80	29.92	15	SCT	NC	10.00		79	53	64	41	8	07	30.06	30.18				
18	OVC	005	2.00	-RA BR	65	63	64	93	9	30	29.84	29.96	18	BKN	250	10.00		68	54	60	61	6	VR	30.08	30.20				
21	OVC	012	10.00		59	55	57	87	10	30	29.90	30.02	21	FEW	NC	10.00		63	56	59	78	0	00	30.13	30.24				
24	OVC	024	10.00		59	54	56	83	7	28	29.90	30.01	24	FEW	NC	10.00		58	55	56	90	9	06	30.14	30.26				
SUNRISE: 0637					NOV 03					SUNSET: 1733					SUNRISE: 0642					NOV 09					SUNSET: 1729				
03	OVC	010	10.00		58	54	56	87	8	29	29.88	30.00	03	FEW	NC	10.00		55	51	53	87	5	02	30.13	30.25				
06	OVC	012	10.00		57	53	55	87	13	30	29.90	30.02	06	SCT	NC	10.00		52	48	50	86	3	36	30.14	30.26				
09	OVC	014	10.00		56	49	52	77	10	30	29.96	30.08	09	BKN	250	10.00		58	50	54	75	7	VR	30.16	30.28				
12	OVC	026	10.00		57	47	52	69	10	28	29.98	30.10	12	BKN	250	10.00		70	52	60	53	8	15	30.13	30.25				
15	SCT	NC	10.00		62	46	54	56	12	29	29.92	30.04	15	BKN	250	10.00		75	50	61	42	5	15	30.06	30.18				
18	SCT	NC	10.00		57	44	50	62	3	30	29.96	30.08	18	BKN	250	10.00		65	51	57	61	10	11	30.04	30.16				
21	CLR	NC	10.00		53	45	49	74	8	30	30.00	30.12	21	SCT	NC	10.00		60	52	56	75	6	13	30.05	30.17				
24	CLR	NC	10.00		50	43	47	77	3	27	30.02	30.14	24	BKN	250	10.00		55	52	53	90	3	36	30.03	30.15				
SUNRISE: 0638					NOV 04					SUNSET: 1732					SUNRISE: 0643					NOV 10					SUNSET: 1728				
03	CLR	NC	10.00		47	43	45	86	6	26	30.03	30.15	03	BKN	250	10.00		54	51	52	90	6	04	29.98	30.10				
06	CLR	NC	10.00		46	42	44	86	0	00	30.07	30.19	06	BKN	250	10.00		57	54	55	90	5	05	29.95	30.07				
09	CLR	NC	10.00		54	44	49	69	7	30	30.14	30.26	09	BKN	050	8.00		66	62	64	87	9	11	29.97	30.09				
12	CLR	NC	10.00		66	42	54	42	10	29	30.11	30.23	12	BKN	034	10.00		78	67	71	69	6	20	29.93	30.05				
15	CLR	NC	10.00		72	42	56	34	9	34	30.06	30.18	15	BKN	080	10.00		82	61	69	49	9	19	29.85	29.97				
18	CLR	NC	10.00		64	41	52	43	6	32	30.10	30.22	18	SCT	NC	10.00		76	63	68	64	7	18	29.88	30.00				
21	CLR	NC	10.00		53	45	49	74	0	00	30.16	30.29	21	BKN	038	10.00		70	63	66	79	0	00	29.92	30.04				
24	CLR	NC	10.00		52	43	48	72	3	34	30.18	30.29	24	SCT	NC	10.00		67	63	64	87	3	19	29.93	30.04				
SUNRISE: 0639					NOV 05					SUNSET: 1731					SUNRISE: 0644					NOV 11					SUNSET: 1727				
03	CLR	NC	10.00		48	43	46	83	7	33	30.19	30.31	03	SCT	NC	10.00		63	62	62	97	3	19	29.91	30.03				
06	CLR	NC	10.00		47	43	45	86	3	36	30.21	30.33	06	SCT	NC	9.00		63	61	62	93	8	29	29.92	30.03				
09	CLR	NC	10.00		55	45	50	69	6	04	30.25	30.37	09	SCT	NC	10.00		67	52	59	59	13	34	30.00	30.11				
12	CLR	NC	10.00		65	45	54	49	8	32	30.21	30.32	12	BKN	095	10.00		69	52	59	55	10	32	30.00	30.12				
15	CLR	NC	10.00		71	43	56	36	7	VR	30.12	30.24	15	FEW	NC	10.00		73	52	61	48	14	32	29.94	30.06				
18	CLR	NC	10.00		61	47	54	60	0	00	30.13	30.24	18	FEW	NC	10.00		61	49	55	65	13	34	29.99	30.11				
21	CLR	NC	10.00		56	48	52	75	0	00	30.15	30.27	21	FEW	NC	10.00		55	46	50	72	7	35	30.05	30.16				
24	CLR	NC	10.00		51	48	50	89	0	00	30.12	30.24	24	CLR	NC	10.00		53	46	50	77	5	34	30.03	30.15				
SUNRISE: 0640					NOV 06					SUNSET: 1730					SUNRISE: 0645					NOV 12					SUNSET: 1727				
03	CLR	NC	10.00		49	48	48	97	0	00	30.09	30.21	03	CLR	NC	10.00		50	43	47	77	7	35	30.03	30.14				
06	CLR	NC	9.00		47	46	47	97	0	00	30.09	30.22	06	OVC	017	10.00		49	43	46	80	9	35	30.05	30.17				
09	FEW	NC	10.00		60	52	56	75	0	00	30.14	30.25	09	OVC	017	10.00		52	44	48	75	13	36	30.10	30.22				
12	CLR	NC	10.00		73	46	58	38	5	VR	30.07	30.19	12	OVC	017	10.00		53	44	49	72	14	34	30.10	30.22				
15	CLR	NC	10.00		76	45	59	33	5	27	30.01	30.12	15	OVC	021	10.00		54	44	49	69	16	02	30.04	30.16				
18	FEW	NC	10.00		64	49	56	58	3	23	29.98	30.10	18	OVC	019	10.00		52	44	48	75	8	33	30.08	30.20				
21	CLR	NC	10.00		59	50	54	72	5	20	30.00	30.12	21	OVC	026	10.00		53	46	50	77	5	33	30.11	30.23				
24	CLR	NC	10.00		58	50	54	75	3	20	29.99	30.10	24	OVC	028	10.00		53	47	50	80	6	01	30.11	30.23				

# OBSERVATIONS AT 3-HOURLY INTERVALS

# HOUSTON, TX

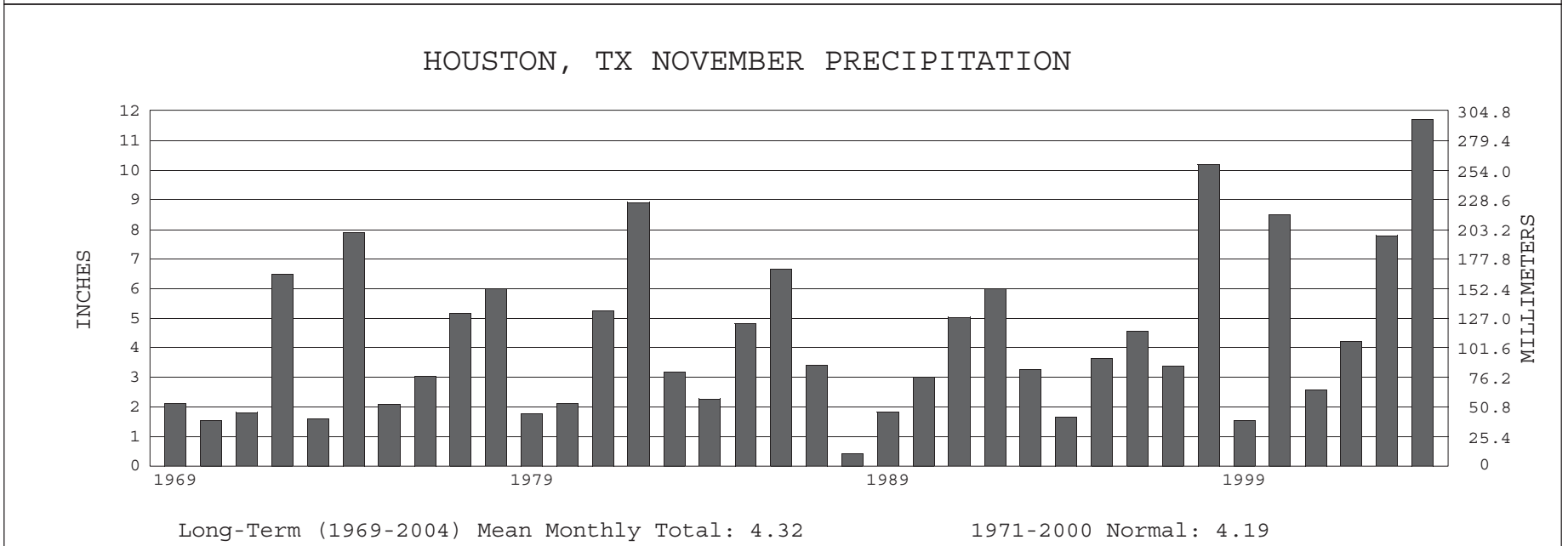
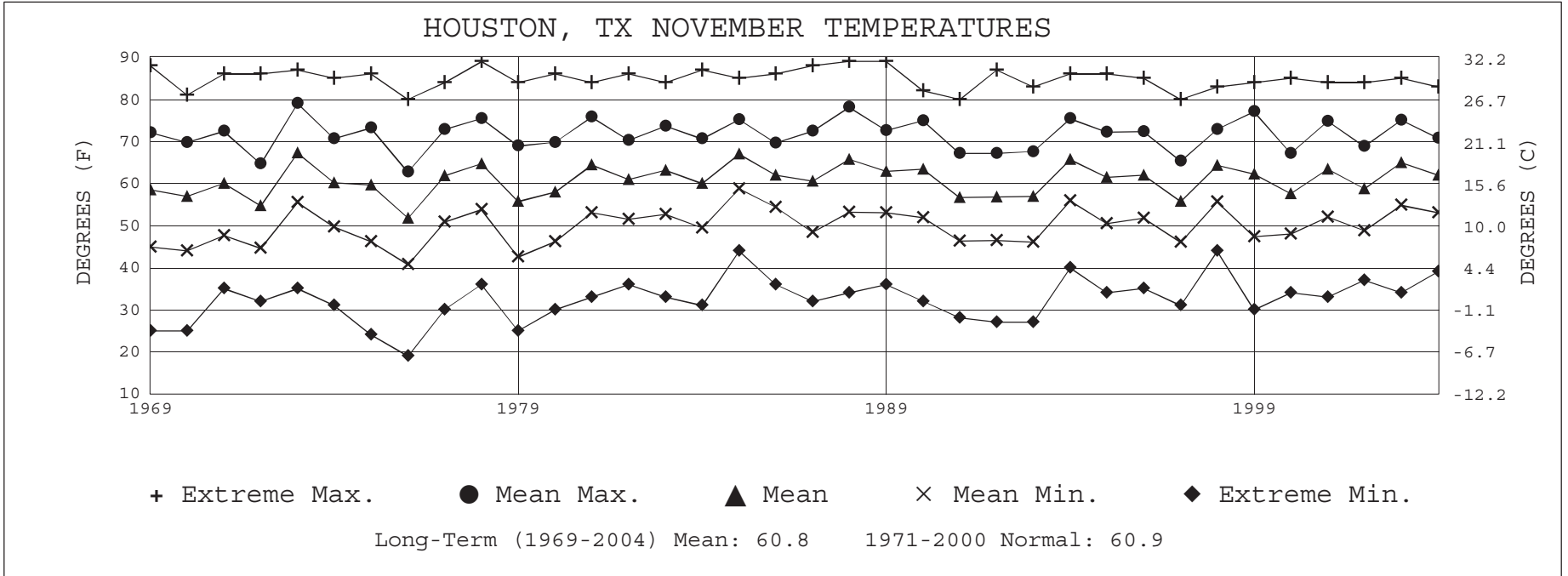
NOVEMBER 2004

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: 0645</b>				<b>NOV 13</b>				<b>SUNSET: 1726</b>				<b>SUNRISE: 0650</b>				<b>NOV 19</b>				<b>SUNSET: 1724</b>									
03	OVC	023		10.00	53	48	50	83	6	35	30.10	30.22	03	SCT	NC		6.00	BR	56	55	55	97	3	05	29.92	30.04			
06	OVC	021		10.00	53	48	50	83	8	03	30.09	30.22	06	SCT	NC		7.00	MIFG	55	54	54	96	3	03	29.92	30.03			
09	OVC	016	HZ	2.00	53	48	50	83	8	07	30.15	30.27	09	BKN	250		10.00		61	59	60	93	7	12	29.94	30.06			
12	OVC	016		10.00	56	47	51	72	14	06	30.10	30.22	12	OVC	250		10.00		72	61	65	69	6	VR	29.92	30.04			
15	OVC	017		10.00	56	48	52	75	9	06	30.09	30.21	15	OVC	075		10.00		74	59	65	60	0	00	29.85	29.97			
18	OVC	016		10.00	54	48	51	80	10	06	30.11	30.23	18	BKN	250		10.00		69	63	65	81	8	13	29.85	29.97			
21	OVC	011		10.00	53	49	51	86	13	07	30.15	30.27	21	OVC	055		10.00		67	63	64	87	6	11	29.88	29.99			
24	OVC	011		10.00	54	49	51	83	12	05	30.18	30.30	24	OVC	038	-RA	9.00		63	60	61	90	9	12	29.88	29.99			
<b>SUNRISE: 0646</b>				<b>NOV 14</b>				<b>SUNSET: 1726</b>				<b>SUNRISE: 0651</b>				<b>NOV 20</b>				<b>SUNSET: 1723</b>									
03	OVC	011		10.00	53	49	51	86	9	04	30.19	30.31	03	OVC	020		10.00		63	61	62	93	12	06	29.85	29.96			
06	OVC	010		10.00	53	49	51	86	15	04	30.18	30.30	06	OVC	015		10.00		60	58	59	93	7	07	29.87	29.98			
09	OVC	012		10.00	55	49	52	80	10	04	30.25	30.37	09	OVC	009	-RA BR	6.00		61	59	60	93	7	06	29.92	30.04			
12	OVC	013		10.00	57	50	53	78	13	06	30.23	30.35	12	OVC	035		7.00		64	62	63	93	8	10	29.88	30.00			
15	OVC	014		9.00	57	50	53	78	13	03	30.20	30.32	15	OVC	033		10.00		67	65	66	93	9	08	29.82	29.94			
18	OVC	110		8.00	57	51	54	81	12	04	30.21	30.34	18	OVC	005		0.75		67	65	66	93	10	07	29.83	29.95			
21	OVC	029		8.00	59	53	56	81	9	05	30.26	30.38	21	OVC	005	-RA BR	3.00		66	64	65	93	6	09	29.87	29.99			
24	OVC	039		9.00	61	55	58	81	10	06	30.22	30.34	24	OVC	012	-RA	7.00		68	66	67	93	8	05	29.87	29.99			
<b>SUNRISE: 0647</b>				<b>NOV 15</b>				<b>SUNSET: 1725</b>				<b>SUNRISE: 0652</b>				<b>NOV 21</b>				<b>SUNSET: 1723</b>									
03	OVC	008		6.00	62	58	60	86	12	08	30.21	30.33	03	OVC	028	-RA BR	5.00		68	66	67	93	3	02	29.87	29.98			
06	OVC	008		7.00	62	59	60	90	9	08	30.23	30.35	06	OVC	026		10.00		69	65	66	87	12	04	29.90	30.01			
09	OVC	006	BR	4.00	64	60	62	87	13	08	30.27	30.39	09	OVC	085		10.00		66	65	65	96	3	01	29.96	30.08			
12	OVC	010	HZ	6.00	67	62	64	84	14	11	30.22	30.34	12	OVC	017	-RA	10.00		67	65	66	93	0	00	29.98	30.09			
15	OVC	012	HZ	6.00	69	63	65	81	15	10	30.16	30.27	15	OVC	044	-RA BR	2.00		67	66	66	97	0	00	29.93	30.05			
18	OVC	014	HZ	6.00	69	63	65	81	7	07	30.16	30.27	18	OVC	025		10.00		68	66	67	93	6	36	29.96	30.08			
21	OVC	017		8.00	67	64	65	91	13	08	30.20	30.32	21	BKN	250		7.00		67	65	66	93	3	03	29.98	30.10			
24	OVC	010		8.00	67	63	64	87	12	09	30.18	30.30	24	OVC	039	BR	5.00		67	66	66	97	0	00	29.95	30.07			
<b>SUNRISE: 0648</b>				<b>NOV 16</b>				<b>SUNSET: 1725</b>				<b>SUNRISE: 0653</b>				<b>NOV 22</b>				<b>SUNSET: 1723</b>									
03	OVC	007		7.00	66	63	64	90	14	09	30.15	30.27	03	VV	001	FG	0.06		68	67	67	96	5	02	29.90	30.02			
06	OVC	006	BR	6.00	66	63	64	90	13	07	30.15	30.27	06	VV	001	BR	0.06		68	68	68	100	0	00	29.90	30.02			
09	OVC	005	BR	1.75	67	64	65	91	12	09	30.18	30.29	09	OVC	003	-RA BR	0.06		69	69	69	100	8	05	29.93	30.05			
12	OVC	014	HZ	5.00	73	65	68	76	12	10	30.13	30.25	12	BKN	060		8.00		67	65	66	93	6	10	29.87	29.99			
15	OVC	029		8.00	75	66	69	74	16	13	30.08	30.19	15	OVC	023	-TSRA BR	0.50		67	66	66	97	12	33	29.79	29.91			
18	OVC	023		10.00	71	65	67	81	15	11	30.07	30.19	18	OVC	042	+TSRA BR	6.00		67	65	66	93	14	07	29.81	29.92			
21	OVC	130		10.00	69	63	65	81	10	10	30.07	30.19	21	OVC	047	RA	8.00		67	65	66	93	0	00	29.74	29.86			
24	OVC	017		10.00	68	63	65	84	10	10	30.09	30.21	24	OVC	100	VCTS -RA	10.00		71	68	69	90	13	17	29.75	29.86			
<b>SUNRISE: 0649</b>				<b>NOV 17</b>				<b>SUNSET: 1724</b>				<b>SUNRISE: 0654</b>				<b>NOV 23</b>				<b>SUNSET: 1722</b>									
03	OVC	008	RA	7.00	66	64	65	93	15	10	30.03	30.14	03	BKN	070		10.00		71	69	70	94	7	18	29.69	29.81			
06	OVC	006	RA BR	5.00	66	65	65	96	12	12	30.02	30.14	06	BKN	250		10.00		71	69	70	94	5	17	29.68	29.79			
09	OVC	005	-RA BR	1.00	67	65	66	93	7	VR	30.01	30.13	09	OVC	250		10.00		74	70	71	88	9	17	29.65	29.77			
12	OVC	007	-RA BR	4.00	71	69	70	94	17	11	29.97	30.09	12	BKN	028		10.00		77	71	73	82	18	16	29.58	29.70			
15	OVC	013	-TSRA BR	6.00	71	68	69	90	16	15	29.92	30.03	15	BKN	037	TS	7.00		80	69	73	69	18	17	29.47	29.59			
18	OVC	025	+RA BR	2.00	71	69	70	94	0	00	29.93	30.05	18	BKN	024		10.00		77	70	72	79	10	19	29.47	29.59			
21	OVC	011		9.00	65	63	64	93	10	04	29.97	30.09	21	OVC	021		10.00		76	70	72	82	18	18	29.46	29.57			
24	OVC	012		8.00	65	63	64	93	6	32	29.94	30.06	24	SCT	NC		10.00		62	57	59	84	9	29	29.57	29.69			
<b>SUNRISE: 0649</b>				<b>NOV 18</b>				<b>SUNSET: 1724</b>				<b>SUNRISE: 0654</b>				<b>NOV 24</b>				<b>SUNSET: 1722</b>									
03	OVC	005		2.00	64	62	63	93	7	30	29.94	30.06	03	SCT	NC		10.00		58	51	54	78	14	30	29.58	29.70			
06	OVC	003	-DZ	2.00	63	62	62	97	6	30	29.95	30.06	06	FEW	NC		10.00		56	46	51	70	10	29	29.63	29.75			
09	OVC	006		8.00	64	60	62	87	6	29	30.00	30.11	09	OVC	026		10.00		57	48	52	72	17	31	29.72	29.84			
12	BKN	250		10.00	68	60	63	76	6	28	29.97	30.09	12	OVC	028		10.00		53	44	49	72	20	31	29.81	29.93			
15	BKN	250		10.00	72	59	64	64	9	31	29.92	30.03	15	BKN	037		10.00		56	42	49	60	18	32	29.82	29.94			
18	FEW	NC		10.00	65	61	63	87	0	00	29.92	30.03	18	FEW	NC		10.00		53	41	47	64	10	32	29.90	30.01			
21	FEW	NC		10.00	60	58	59	93	3	36	29.95	30.07	21	CLR	NC		10.00		49	41	45	74	8	31	29.99	30.11			
24	SCT	NC		9.00	59	57	58	93	0	00	29.95	30.06	24	CLR	NC		10.00		45	41	43	86	6	28	30.02	30.14			







NOVEMBER 2004

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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