



NOVEMBER 2002

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

HOUSTON, TX

INTERCONTINENTAL AIRPORT (IAH)
 Lat: 29°59' N Long: 95°21' W Elev (Ground): 118 Feet
 Time Zone: CENTRAL WBAN: 12960 ISSN #:0198-5094

NOVEMBER 2002
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	68	54	61	-4	52	55	4	0	RA	0		0.0	T	30.13	30.24	10.8	04	11.1	21	05	17	03	01														
02	60	51	56	-9	51	53	9	0	RA BR	0		0.0	0.10	30.05	30.16	10.5	07	11.2	20	08	17	06	02														
03	62	57	60	-5	59	59	5	0	TSRA RA DZ BR	0		0.0	2.32	29.90	30.01	7.4	01	8.1	20	01	17	02	03														
04	57	54	56	-8	54	55	9	0	RA BR	0		0.0	1.16	29.84	29.95	8.7	03	10.3	26	04	18	01	04														
05	67	53	60	-4	52	55	5	0	RA BR	0		0.0	0.28	29.79	29.91	8.0	30	8.7	22	33	17	32	05														
06	68	47	58	-6	41	49	7	0		0		0.0	0.00	30.16	30.27	5.8	32	6.0	20	36	16	34	06														
07	69	42	56	-7	43	49	9	0		0		0.0	0.00	30.16	30.27	2.5	15	3.6	13	13	10	13	07														
08	78	50	64	1	55	59	1	0		0		0.0	0.00	29.92	30.04	6.7	18	6.9	25	17	20	18	08														
09	83	62	73	10	67	69	0	8	BR	0		0.0	0.00	29.69	29.80	9.0	20	9.3	26	20	18	21	09														
10	84*	69	77*	14	70	72	0	12	RA DZ BR	0		0.0	T	29.60	29.71	7.5	22	8.1	25	22	21	22	10														
11	79	59	69	7	52	59	0	4		0		0.0	0.00	29.78	29.89	6.9	01	7.9	21	03	17	01	11														
12	69	50	60	-2	43	51	5	0		0		0.0	0.00	30.17	30.29	8.6	35	9.2	26	36	23*	36	12														
13	67	44	56	-5	41	49	9	0		0		0.0	0.00	30.21	30.32	1.5	14	3.7	14	14	12	15	13														
14	73	48	61	0	55	58	4	0	TSRA RA	0		0.0	0.03	29.87	29.98	4.0	17	4.8	24	17	20	17	14														
15	66	53	60	-1	49	54	5	0	TS RA	0		0.0	T	29.85	29.96	9.7	35	10.6	26*	01	22	01	15														
16	61	44	53	-8	39	46	12	0		0		0.0	0.00	30.10	30.22	9.8	33	10.2	25	34	21	34	16														
17	68	40	54	-6	39	47	11	0		0		0.0	0.00	30.10	30.21	4.1	20	4.5	18	20	14	20	17														
18	78	48	63	3	54	58	2	0		0		0.0	0.00	30.03	30.15	4.7	19	4.9	25	20	20	21	18														
19	73	52	63	3	49	54	2	0		0		0.0	0.00	30.09	30.20	3.8	01	4.9	16	01	14	01	19														
20	73	46	60	0	44	51	5	0		0		0.0	0.00	30.01	30.12	4.0	34	4.4	22	01	17	01	20														
21	73	47	60	1	41	50	5	0		0		0.0	0.00	30.01	30.12	5.4	31	6.3	22	36	17	33	21														
22	68	44	56	-3	39	48	9	0		0		0.0	0.00	30.07	30.19	5.7	34	6.3	18	04	15	01	22														
23	70	39	55	-4	45	50	10	0		0		0.0	0.00	30.09	30.21	5.4	13	5.6	20	12	15	13	23														
24	76	47	62	3	54	57	3	0	BR	0		0.0	0.00	29.96	30.08	4.2	14	5.4	20	17	16	13	24														
25	75	53	64	6	55	57	1	0	RA BR	0		0.0	0.02	30.00	30.11	4.6	35	6.1	20	36	17	31	25														
26	53	45	49	-9	46	48	16	0	RA DZ BR	0		0.0	0.21	30.12	30.24	11.9	35	12.0	23	01	20	01	26														
27	51	41	46*	-12	36	42	19	0	RA	0		0.0	0.08	30.24	30.36	10.6	36	10.8	22	01	18	36	27														
28	59	40	50	-7	38	43	15	0		0		0.0	0.00	30.29	30.41	3.3	36	4.3	15	04	12	36	28														
29	65	37*	51	-6	41	47	14	0	RA	0		0.0	T	30.11	30.22	2.2	20	2.5	14	23	10	22	29														
30	70	49	60	3	47	53	5	0	RA	0		0.0	T	30.01	30.13	4.4	35	5.7	21	01	16	36	30														
< MONTHLY AVERAGES											TOTALS->		0.0	4.20	30.01	30.13	2.5	36	7.1	<- MONTHLY AVERAGES																	
-3.2				-1.0				-2.1				<-----DEPARTURE FROM NORMAL----->											0.01				SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3										
DEGREE DAYS											GREATEST 24-HR PRECIPITATION: 2.53 DATE: 03-04				SEA LEVEL PRESSURE				DATE TIME																		
MONTHLY TOTAL DEPARTURE											GREATEST 24-HR SNOWFALL: 0.0 DATE:				MAXIMUM				: 30.48 28 0953																		
SEASON TO DATE TOTAL DEPARTURE											GREATEST SNOW DEPTH: 0 DATE:				MINIMUM				: 29.64 10 1553																		
HEATING: 201 12											NUMBER OF DAYS WITH				MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 0				PRECIPITATION ≥ 0.01 INCH: 8														
COOLING: 24 -41															MAXIMUM TEMP ≤ 32: 0				MINIMUM TEMP ≤ 0: 0				PRECIPITATION ≥ 0.10 INCH: 5														
															THUNDERSTORMS: 3				HEAVY FOG: 0				SNOWFALL ≥ 1.0 INCH: 0														

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX

NOVEMBER 2002 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						T		T					01												01			T	
02												T	02	T							0.05	T	0.01	0.01	02	0.20		0.10	
03	0.04	0.07	0.09	T	0.05	T	0.13	0.01	0.02	0.33	0.03	0.06	03	0.09	T	0.09	T	0.03	0.10	0.02	0.06	0.12	0.01	03	1.92		2.32		
04	0.11	0.06	0.01	0.20	0.03	0.05	0.05	0.01	0.01	0.03	0.03	0.01	04	T	0.13	0.07	0.12	0.09	0.02	0.01	0.13	0.03	0.01	04	1.15		1.16		
05	0.09	0.15	0.02	0.02	T								05		0.01	0.10	0.02	0.18	0.01	0.04	0.01			05			0.28		
06													06												06			0.00	
07													07												07			0.00	
08													08												08			0.00	
09													09												09			0.00	
10										T	T	T	10												10			0.00	
11													11												11			0.00	
12													12												12			0.00	
13													13												13			0.00	
14													14									T	0.02	0.01	14			0.03	
15	T												15							T					15			T	
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							T	T					25												25	T		0.02	
26							T	T				0.08	26	T	T			T	T	0.01	0.01	0.02	T	0.04	0.05	26		0.21	
27	0.01	T	0.04	0.03	T	T							27												27			0.08	
28													28												28			0.00	
29													29												29			T	
30				T									30												30			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 NOVEMBER 2002

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							9.00	10.00	
02							5.00	10.00	
03							.50	10.00	
04							.25	10.00	
05							5.00	10.00	
06							10.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							1.00	10.00	
10							4.00	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							8.00	10.00	
17							10.00	10.00	
18							10.00	10.00	
19							10.00	10.00	
20							8.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							9.00	10.00	
24							6.00	10.00	
25							6.00	10.00	
26							2.00	10.00	
27							7.00	10.00	
28							8.00	10.00	
29							7.00	10.00	
30							10.00	10.00	
MONTHLY AVGS							7.68	10.00	
SUNSHINE (MINUTES)									
Total: Possible: Percent Possible:									
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR PTLY CLDY CLOUDY MISSING									
30									
MINIMUM VISIBILITY (MILES)									
<=0.25 <=3.0 >=7.0									
1 4 22									

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX

NOVEMBER 2002

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: 0635				NOV 01	SUNSET: 1735				SUNRISE: 0640				NOV 07	SUNSET: 1730															
03	BKN	250			10.00	57	54	55	90	8	04	30.06	30.18	03	CLR	NC			10.00	44	42	43	93	3	32	30.19	30.30		
06	BKN	080			10.00	56	53	54	90	10	03	30.11	30.23	06	CLR	NC			10.00	45	43	44	93	0	00	30.19	30.31		
09	BKN	120			9.00	57	51	54	81	15	05	30.18	30.29	09	CLR	NC			10.00	56	51	53	83	0	00	30.23			
12	SCT	NC			10.00	66	53	59	63	14	08	30.17	30.28	12	CLR	NC			10.00	64	38	51	38	3	VR	30.21	30.33		
15	BKN	130			10.00	67	52	59	59	13	03	30.10	30.22	15	CLR	NC			10.00	69	37	53	31	7	17	30.12	30.24		
18	BKN	130			10.00	62	51	56	67	10	03	30.13	30.25	18	CLR	NC			10.00	61	43	52	52	8	13	30.10	30.22		
21	BKN	130			10.00	57	51	54	81	17	05	30.15	30.27	21	CLR	NC			10.00	54	48	51	80	5	18	30.11			
24	BKN	130			10.00	54	48	51	80	8	04	30.15	30.27	24	CLR	NC			10.00	51	48	50	89	3	17	30.05	30.17		
SUNRISE: 0636				NOV 02	SUNSET: 1734				SUNRISE: 0641				NOV 08	SUNSET: 1729															
03	BKN	130			10.00	52	48	50	86	10	06	30.11	30.22	03	CLR	NC			10.00	51	48	50	89	5	15	30.01	30.13		
06	BKN	130			10.00	51	47	49	86	14	06	30.09	30.21	06	CLR	NC			10.00	51	50	51	96	0	00	29.99	30.11		
09	OVC	120			10.00	53	48	50	83	13	06	30.12	30.24	09	SCT	NC			10.00	65	57	60	76	9	16	29.99	30.10		
12	OVC	110			10.00	58	50	54	75	10	10	30.09	30.20	12	BKN	250			10.00	75	56	64	52	10	19	29.95	30.06		
15	OVC	020			8.00	59	54	56	83	12	05	30.01	30.13	15	BKN	055			10.00	78	56	65	47	13	19	29.86	29.97		
18	OVC	017			9.00	56	54	55	93	13	07	29.98	30.10	18	BKN	250			10.00	72	58	64	61	9	18	29.83	29.95		
21	OVC	010			9.00	57	55	56	93	10	11	29.96	30.08	21	SCT	NC			10.00	67	60	63	79	7	16	29.83	29.94		
24	OVC	007			7.00	58	57	57	97	7	09	29.93	30.05	24	BKN	032			10.00	67	63	64	87	5	19	29.82	29.93		
SUNRISE: 0637				NOV 03	SUNSET: 1733				SUNRISE: 0642				NOV 09	SUNSET: 1729															
03	OVC	004			4.00	58	58	58	100	6	01	29.87	29.98	03	FEW	NC			10.00	66	65	65	96	0	00	29.78	29.89		
06	OVC	003			0.50	60	59	59	96	6	01	29.87	29.98	06	SCT	NC		BR	10.00	63	63	63	100	0	00	29.76	29.87		
09	OVC	003			0.50	60	59	59	96	8	02	29.90	30.02	09	FEW	NC			10.00	72	68	69	87	6	21	29.76	29.88		
12	OVC	004			2.50	61	60	60	97	7	35	29.89	30.01	12	BKN	031			10.00	78	67	71	69	13	21	29.71	29.83		
15	OVC	005			10.00	61	60	60	97	9	03	29.85	29.96	15	BKN	038			10.00	81	68	72	65	12	19	29.62	29.73		
18	OVC	005			4.00	59	58	58	96	9	01	29.88	30.00	18	SCT	NC			10.00	77	69	72	77	15	19	29.59	29.70		
21	OVC	008			4.00	58	57	57	97	8	02	29.93	30.05	21	OVC	021			10.00	76	70	72	82	12	21	29.60	29.71		
24	OVC	006			10.00	57	56	56	96	13	01	29.93	30.05	24	OVC	022			10.00	76	71	73	85	13	21	29.62	29.73		
SUNRISE: 0638				NOV 04	SUNSET: 1732				SUNRISE: 0642				NOV 10	SUNSET: 1728															
03	OVC	006			5.00	55	54	54	96	10	03	29.92	30.04	03	OVC	020			10.00	76	71	73	85	13	21	29.60	29.71		
06	OVC	012			10.00	55	54	54	96	9	03	29.94	30.05	06	OVC	019			10.00	76	70	72	82	9	22	29.61	29.72		
09	OVC	009			10.00	54	53	53	97	12	04	29.92	30.04	09	OVC	025			10.00	75	70	72	84	8	22	29.65	29.76		
12	OVC	007			3.00	55	54	54	96	13	05	29.85	29.97	12	BKN	023			10.00	80	71	74	74	10	22	29.61	29.72		
15	OVC	005			1.50	56	55	55	97	10	07	29.78	29.90	15	FEW	NC			10.00	83	69	74	63	10	18	29.53	29.64		
18	OVC	005			10.00	56	55	55	97	13	03	29.74	29.85	18	CLR	NC			10.00	76	70	72	82	0	00	29.55	29.67		
21	OVC	005			4.00	55	55	55	100	8	35	29.74	29.86	21	CLR	NC			9.00	71	69	70	94	3	19	29.60	29.71		
24	OVC	004			8.00	54	53	53	97	6	32	29.72	29.83	24	SCT	NC			10.00	70	66	67	87	7	30	29.66	29.77		
SUNRISE: 0638				NOV 05	SUNSET: 1732				SUNRISE: 0643				NOV 11	SUNSET: 1728															
03	OVC	008			10.00	54	53	53	97	8	31	29.68	29.80	03	SCT	NC			10.00	62	58	60	86	6	33	29.67	29.79		
06	OVC	006			8.00	53	52	52	96	12	30	29.71	29.83	06	SCT	NC			10.00	60	52	56	75	8	36	29.72	29.83		
09	OVC	007			10.00	53	51	52	93	8	31	29.79	29.91	09	SCT	NC			10.00	65	49	56	56	12	03	29.78	29.90		
12	BKN	110			10.00	59	52	55	78	6	VR	29.77	29.88	12	SCT	NC			10.00	76	49	61	39	10	01	29.76	29.88		
15	FEW	NC			10.00	66	53	59	63	8	25	29.72	29.84	15	SCT	NC			10.00	79	49	62	35	8	01	29.72	29.83		
18	FEW	NC			10.00	62	55	58	78	5	29	29.82	29.93	18	BKN	110			10.00	69	55	61	61	13	36	29.81	29.92		
21	CLR	NC			10.00	61	50	55	67	16	32	29.93	30.04	21	OVC	100			10.00	65	54	59	68	8	35	29.89	30.00		
24	CLR	NC			10.00	55	43	49	64	8	31	30.01	30.13	24	FEW	NC			10.00	59	51	55	75	7	36	29.95	30.06		
SUNRISE: 0639				NOV 06	SUNSET: 1731				SUNRISE: 0644				NOV 12	SUNSET: 1727															
03	CLR	NC			10.00	51	42	47	71	8	31	30.05	30.16	03	CLR	NC			10.00	54	48	51	80	6	35	29.99	30.10		
06	CLR	NC			10.00	47	41	44	80	0	00	30.13	30.25	06	CLR	NC			10.00	51	47	49	86	6	34	30.07	30.19		
09	CLR	NC			10.00	56	41	49	57	7	33	30.21	30.32	09	CLR	NC			10.00	57	44	51	62	14	01	30.19	30.30		
12	CLR	NC			10.00	65	37	51	36	13	32	30.18	30.29	12	SCT	NC			10.00	66	38	52	36	13	01	30.20	30.32		
15	CLR	NC			10.00	67	35	51	31	14	32	30.15	30.27	15	FEW	NC			10.00	69	35	52	29	16	36	30.19	30.31		
18	CLR	NC			10.00	58	43	50	58	3	31	30.16	30.27	18	FEW	NC			10.00	59	45	52	60	0	00	30.24	30.36		
21	CLR	NC			10.00	50	46	48	86	0	00	30.20	30.32	21	CLR	NC			10.00	54	45	49	72	5	32	30.30	30.42		
24	CLR	NC			10.00	47	45	46	93	0	00	30.21	30.32	24	CLR	NC			10.00	52	42	47	69	8	36	30.28	30.40		

OBSERVATIONS AT 3-HOURLY INTERVALS

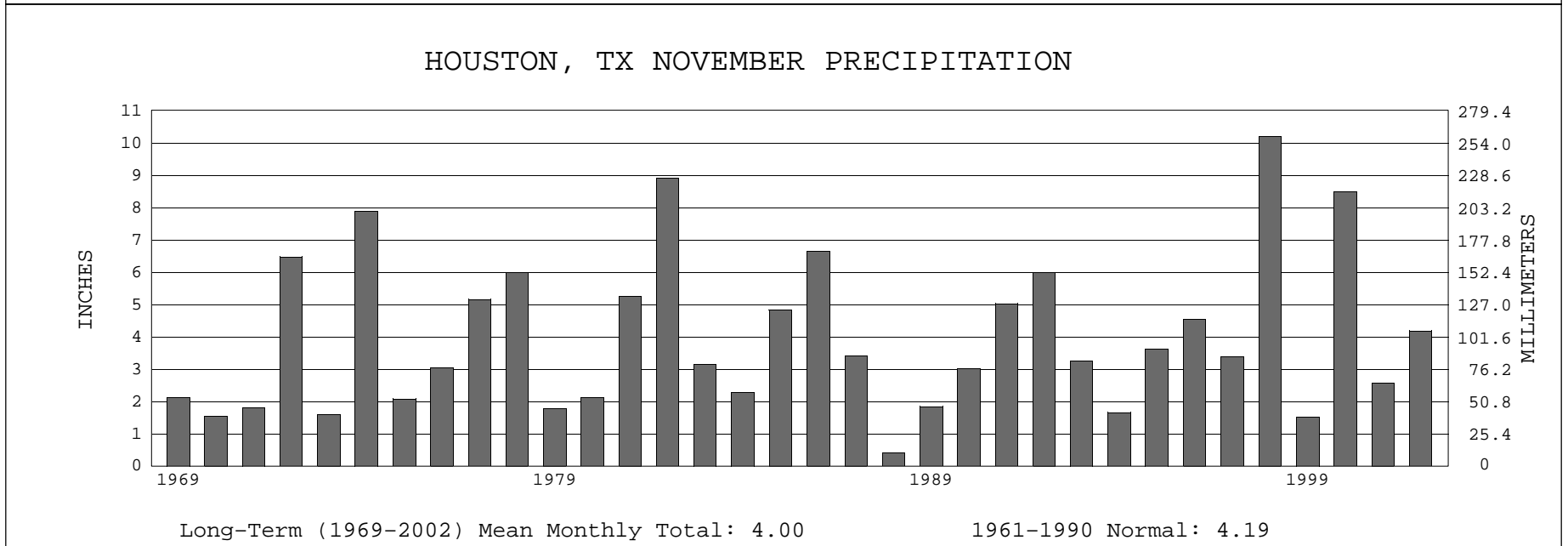
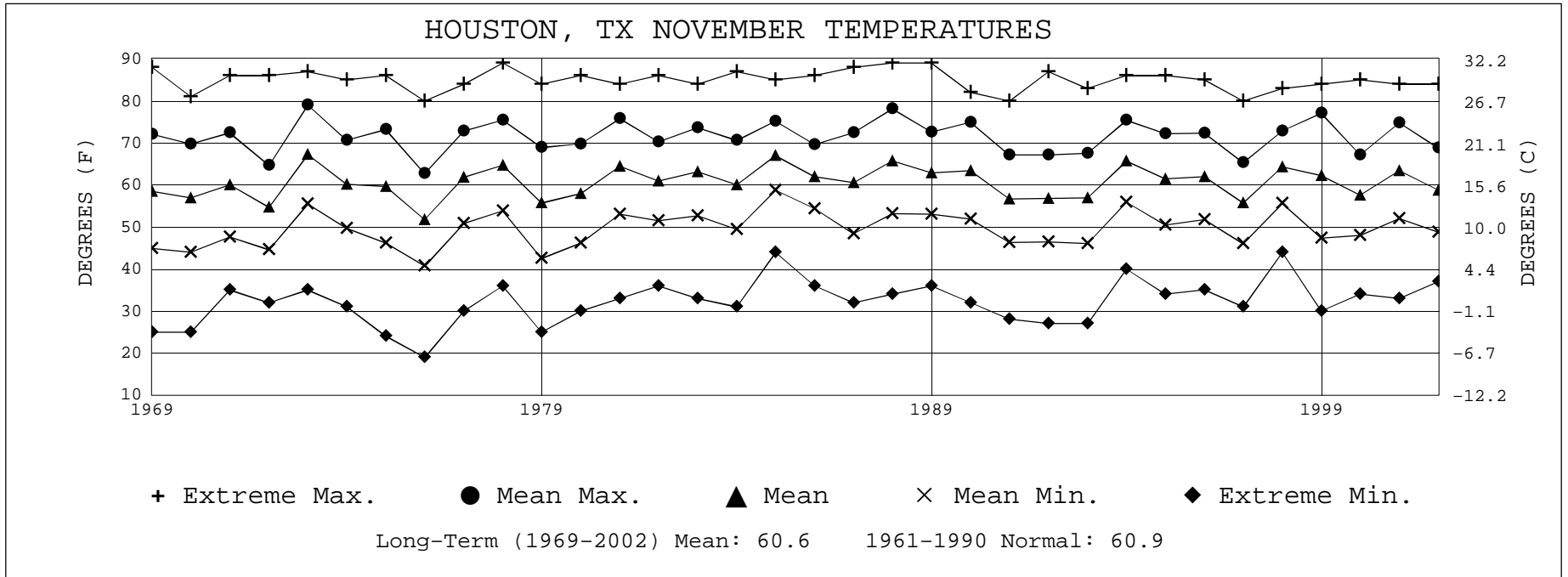
HOUSTON, TX

NOVEMBER 2002

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: 0645				NOV 13				SUNSET: 1727				SUNRISE: 0650				NOV 19				SUNSET: 1724									
03	CLR	NC			10.00	48	42	45	80	3	01	30.28	30.39	03	SCT	NC			10.00	58	53	55	84	6	35	30.10	30.22		
06	CLR	NC			10.00	45	43	44	93	0	00	30.30	30.42	06	BKN	250			10.00	54	49	51	83	5	35	30.12	30.23		
09	CLR	NC			10.00	55	45	50	69	0	00	30.32	30.43	09	BKN	250			10.00	60	47	53	62	12	02	30.16	30.28		
12	CLR	NC			10.00	64	38	51	38	0	00	30.25	30.36	12	FEW	NC			10.00	68	45	56	44	7	05	30.13	30.25		
15	CLR	NC			10.00	66	36	51	33	3	12	30.15	30.27	15	FEW	NC			10.00	73	44	57	36	5	02	30.03	30.15		
18	CLR	NC			10.00	60	42	51	52	7	15	30.11	30.22	18	CLR	NC			10.00	62	50	56	65	0	00	30.02	30.14		
21	CLR	NC			10.00	55	42	49	62	6	20	30.11	30.22	21	CLR	NC			10.00	59	48	53	67	3	VR	30.05	30.16		
24	CLR	NC			10.00	51	44	48	77	0	00	30.06	30.17	24	CLR	NC			10.00	53	48	50	83	0	00	30.05	30.16		
SUNRISE: 0646				NOV 14				SUNSET: 1726				SUNRISE: 0651				NOV 20				SUNSET: 1724									
03	FEW	NC			10.00	49	45	47	86	0	00	29.98	30.10	03	CLR	NC			10.00	49	47	48	93	3	31	30.02	30.13		
06	SCT	NC			10.00	48	46	47	93	3	32	29.95	30.07	06	FEW	NC			10.00	49	45	47	86	0	00	30.00	30.12		
09	FEW	NC			10.00	62	53	57	73	9	13	29.93	30.05	09	FEW	NC			10.00	56	48	52	75	3	35	30.06	30.18		
12	OVC	060			10.00	73	56	63	55	10	17	29.88	30.00	12	FEW	NC			10.00	70	40	55	34	10	36	30.03	30.14		
15	OVC	046			10.00	73	58	64	59	9	17	29.79	29.91	15	CLR	NC			10.00	73	34	54	24	10	34	29.95	30.06		
18	BKN	070			10.00	69	60	64	73	5	17	29.76	29.87	18	BKN	250			10.00	62	44	53	52	0	00	29.96	30.08		
21	OVC	034			10.00	67	61	63	81	0	00	29.79	29.91	21	SCT	NC			10.00	56	48	52	75	0	00	29.99	30.11		
24	OVC	030			10.00	66	64	65	93	3	23	29.76	29.88	24	SCT	NC			10.00	55	44	50	67	8	30	30.00	30.12		
SUNRISE: 0647				NOV 15				SUNSET: 1726				SUNRISE: 0652				NOV 21				SUNSET: 1723									
03	OVC	023			10.00	61	54	57	78	7	34	29.75	29.87	03	CLR	NC			10.00	50	43	47	77	7	30	29.99	30.11		
06	OVC	049			10.00	57	49	53	75	13	34	29.80	29.92	06	CLR	NC			10.00	49	39	44	69	5	32	30.00	30.12		
09	OVC	250			10.00	55	47	51	74	14	34	29.85	29.97	09	CLR	NC			10.00	57	40	49	53	6	33	30.06	30.18		
12	OVC	130			10.00	59	46	52	62	13	35	29.84	29.95	12	CLR	NC			10.00	71	38	54	30	10	31	30.03	30.15		
15	OVC	130			10.00	62	47	54	58	15	36	29.81	29.92	15	CLR	NC			10.00	73	39	55	29	13	36	29.97	30.09		
18	BKN	250			10.00	58	48	53	70	13	03	29.82	29.94	18	FEW	NC			10.00	63	45	54	52	0	00	29.97	30.09		
21	BKN	250			10.00	56	47	51	72	6	33	29.96	30.09	21	CLR	NC			10.00	57	44	50	62	3	25	30.00	30.12		
24	SCT	NC			10.00	53	47	50	80	9	32	30.00	30.12	24	CLR	NC			10.00	53	45	49	74	0	00	29.99	30.11		
SUNRISE: 0647				NOV 16				SUNSET: 1725				SUNRISE: 0652				NOV 22				SUNSET: 1723									
03	SCT	NC			10.00	51	46	49	83	6	32	30.00	30.12	03	CLR	NC			10.00	55	42	49	62	10	31	29.99	30.10		
06	SCT	NC			10.00	47	40	44	77	12	34	30.06	30.18	06	SCT	NC			10.00	50	43	47	77	8	33	30.04	30.16		
09	OVC	018			8.00	47	40	44	77	13	34	30.14	30.26	09	CLR	NC			10.00	57	40	49	53	10	36	30.11	30.23		
12	FEW	NC			10.00	55	39	47	55	14	32	30.11	30.23	12	CLR	NC			10.00	64	35	50	34	12	36	30.10	30.22		
15	CLR	NC			10.00	61	35	49	38	18	33	30.07	30.19	15	CLR	NC			10.00	68	31	51	25	9	36	30.05	30.17		
18	CLR	NC			10.00	55	35	46	47	10	32	30.12	30.24	18	CLR	NC			10.00	57	40	49	53	6	31	30.07	30.19		
21	CLR	NC			10.00	50	38	44	63	7	28	30.15	30.27	21	CLR	NC			10.00	50	41	46	71	0	00	30.11	30.23		
24	CLR	NC			10.00	45	39	42	80	0	00	30.15	30.27	24	CLR	NC			10.00	45	41	43	86	0	00	30.11	30.23		
SUNRISE: 0648				NOV 17				SUNSET: 1725				SUNRISE: 0653				NOV 23				SUNSET: 1723									
03	CLR	NC			10.00	41	39	40	93	0	00	30.13	30.25	03	CLR	NC			10.00	42	40	41	92	0	00	30.09	30.21		
06	CLR	NC			10.00	41	39	40	93	0	00	30.13	30.24	06	CLR	NC			10.00	40	38	39	93	0	00	30.11	30.23		
09	CLR	NC			10.00	52	40	46	64	5	21	30.16	30.28	09	CLR	NC			10.00	53	44	49	72	5	10	30.14	30.26		
12	FEW	NC			10.00	64	36	50	35	7	21	30.14	30.26	12	CLR	NC			10.00	65	43	54	45	7	15	30.12	30.24		
15	CLR	NC			10.00	68	36	52	31	8	23	30.04	30.16	15	CLR	NC			10.00	70	47	57	44	13	13	30.05	30.17		
18	FEW	NC			10.00	61	39	50	44	5	19	30.01	30.14	18	CLR	NC			10.00	61	51	56	70	13	13	30.05	30.17		
21	CLR	NC			10.00	53	42	48	66	5	17	30.04	30.16	21	CLR	NC			10.00	56	51	53	84	7	12	30.05	30.17		
24	CLR	NC			10.00	50	43	47	77	5	20	30.03	30.15	24	CLR	NC			9.00	53	51	52	93	6	15	30.03	30.14		
SUNRISE: 0649				NOV 18				SUNSET: 1724				SUNRISE: 0654				NOV 24				SUNSET: 1722									
03	CLR	NC			10.00	49	45	47	86	3	15	30.01	30.13	03	CLR	NC			8.00	50	48	49	93	0	00	30.00	30.11		
06	SCT	NC			10.00	50	48	49	93	0	00	30.00	30.12	06	FEW	NC			7.00	48	47	47	96	3	01	29.98	30.10		
09	BKN	045			10.00	61	53	57	75	0	00	30.05	30.17	09	BKN	250			10.00	58	55	56	90	5	10	30.00	30.12		
12	BKN	250			10.00	74	56	63	54	14	19	30.03	30.15	12	BKN	250			10.00	72	54	61	53	8	21	29.97	30.09		
15	BKN	250			10.00	77	58	65	52	12	19	29.98	30.09	15	BKN	250			10.00	75	51	61	43	8	17	29.90	30.01		
18	BKN	250			10.00	72	60	65	66	5	23	30.02	30.13	18	BKN	065			10.00	69	58	62	68	10	11	29.89	30.01		
21	BKN	055			10.00	66	61	63	84	3	19	30.07	30.19	21	SCT	NC			10.00	62	58	60	86	7	14	29.93	30.05		
24	SCT	NC			10.00	61	58	59	90	0	00	30.09	30.21	24	CLR	NC			10.00	58	56	57	93	0	00	29.94	30.06		





NOVEMBER 2002

HOUSTON, TX

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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