



AUGUST 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

AUGUST 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	96	77	87	3	74	78	0	22		0		0.0	0.00	29.90	30.01	5.8	19	6.5	24	15	22	13	01																																										
02	96	78	87	3	74	78	0	22		0		0.0	0.00	29.85	29.96	5.4	20	6.5	16	19	14	22	02																																										
03	97	77	87	3	73	77	0	22		0		0.0	0.00	29.85	29.96	5.6	19	6.9	21	14	18	14	03																																										
04	97	77	87	3	74	78	0	22		0		0.0	0.00	29.84	29.95	6.0	19	6.6	18	18	15	17	04																																										
05	98	79	89	5	74	78	0	24		0		0.0	0.00	29.83	29.94	6.0	19	6.8	18	15	17	15	05																																										
06	98	79	89	5	73	78	0	24		0		0.0	0.00	29.82	29.93	6.2	23	6.9	18	25	14	22	06																																										
07	104*	80	92*	8	71	77	0	27		0		0.0	0.00	29.78	29.89	2.7	29	8.2	21	26	16	25	07																																										
08	102	78	90	6	74	78	0	25	RA	0		0.0	0.07	29.78	29.89	2.3	16	5.5	29	12	24	13	08																																										
09	96	76	86	2	76	78	0	21	TS TSRA RA BR	0		0.0	0.14	29.82	29.93	2.1	17	5.2	29	31	25	31	09																																										
10	95	77	86	2	74	77	0	21	BR	0		0.0	0.00	29.85	29.96	0.6	19	3.6	18	13	15	14	10																																										
11	88	69	79	-5	72	73	0	14	TS TSRA RA BR	0		0.0	0.88	29.83	29.94	0.7	04	6.0	43*	06	37*	06	11																																										
12	87	69	78	-6	69	71	0	13	RA BR	0		0.0	0.02	29.82	29.93	6.7	01	8.1	28	06	23	06	12																																										
13	87	69*	78	-6	70	73	0	13	TSRA BR	0		0.0	0.17	29.92	30.03	6.4	05	8.1	30	09	25	11	13																																										
14	88	73	81	-3	73	75	0	16	TS RA	0		0.0	0.11	30.08	30.20	2.6	08	4.9	18	11	15	10	14																																										
15	95	75	85	1	72	76	0	20		0		0.0	0.00	30.04	30.15	8.5	03	9.4	25	06	21	01	15																																										
16	94	76	85	2	76	78	0	20	TS TSRA RA BR	0		0.0	0.45	29.91	30.03	2.5	07	5.6	26	10	22	10	16																																										
17	95	77	86	3	75	78	0	21	TS	0		0.0	0.00	29.85	29.97	1.6	21	4.6	26	09	23	09	17																																										
18	95	78	87	4	75	78	0	22		0		0.0	0.00	29.88	29.99	2.8	20	4.4	21	17	17	17	18																																										
19	94	76	85	2	75	78	0	20	TS	0		0.0	0.00	29.92	30.03	3.5	17	4.8	25	15	22	15	19																																										
20	95	76	86	3	75	78	0	21		0		0.0	0.00	29.91	30.03	4.6	18	5.2	26	13	22	13	20																																										
21	94	74	84	1	75	77	0	19	TS TSRA RA	0		0.0	0.20	29.90	30.01	1.4	19	4.7	28	11	23	10	21																																										
22	90	73	82	-1	71	74	0	17	RA	0		0.0	T	29.86	29.98	1.8	09	5.4	15	13	10	13	22																																										
23	93	74	84	1	72	76	0	19		0		0.0	0.00	29.88	29.99	0.6	13	4.2	21	05	20	05	23																																										
24	94	76	85	2	74	77	0	20	TS TSRA RA	0		0.0	0.08	29.90	30.02	0.5	17	2.9	40	04	33	04	24																																										
25	96	75	86	4	74	77	0	21	FU	0		0.0	0.00	29.89	30.00	2.9	14	4.6	18	12	15	12	25																																										
26	94	77	86	4	76	78	0	21	TS TSRA RA	0		0.0	0.41	29.88	29.99	1.9	10	4.3	23	11	21	11	26																																										
27	92	77	85	3	77	78	0	20	TSRA	0		0.0	0.18	29.86	29.97	2.5	12	3.7	18	12	16	12	27																																										
28	93	77	85	3	75	78	0	20	TS	0		0.0	0.00	29.86	29.97	5.0	12	5.5	20	13	16	14	28																																										
29	93	77	85	3	75	78	0	20	RA	0		0.0	T	29.84	29.95	7.1	12	7.8	22	13	17	12	29																																										
30	89	75	82	0	76	77	0	17	TS RA BR	0		0.0	0.53	29.83	29.94	8.9	07	10.0	23	08	20	08	30																																										
31	82	74	78*	-4	75	76	0	13	RA BR	0		0.0	1.23	29.74	29.85	4.6	11	9.6	22	14	20	15	31																																										
93.8										75.6		84.7		■ ■ ■		73.8		76.8		0.0		19.9		< MONTHLY AVERAGES		TOTALS->		0.0		4.47		29.87		29.98		1.8		13		6.0		<- MONTHLY AVERAGES																							
0.3										2.6		1.4		■ ■ ■		<-----DEPARTURE FROM NORMAL----->																				0.64		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																											
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.76 DATE: 30-31										SEA LEVEL PRESSURE										DATE		TIME																																	
MONTHLY TOTAL DEPARTURE										SEASON TO DATE TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: 0.0 DATE:										MAXIMUM										30.26		14 1153																							
HEATING: 0										0										GREATEST SNOW DEPTH: 0 DATE:										MINIMUM										29.81		31 0653																							
COOLING: 617										54										2464										269		NUMBER OF DAYS WITH =>										MAXIMUM TEMP ≥ 90: 25										MINIMUM TEMP ≤ 32: 0										PRECIPITATION ≥ 0.01 INCH: 13			
																																MAXIMUM TEMP ≤ 32: 0										MINIMUM TEMP ≤ 0: 0										PRECIPITATION ≥ 0.10 INCH: 10													
																																THUNDERSTORMS: 13										HEAVY FOG: 0										SNOWFALL ≥ 1.0 INCH: 0													

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX

AUGUST 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												01		0.00		
02													02												02		0.00		
03													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		0.07		
09													09												09		0.14		
10													10												10		0.00		
11													11	0.08	0.66	0.11	0.03								11		0.88		
12													12				0.02								12		0.02		
13													13												13	0.17	0.17		
14	T				0.01	0.07	0.02	T	0.01	T		14												14		0.11			
15												15												15		0.00			
16												16		T	T	0.45	T							16		0.45			
17												17												17		0.00			
18												18												18		0.00			
19												19												19		0.00			
20												20												20		0.00			
21												21			T	0.09	T							21	0.10	0.20			
22												22												22		T			
23												23												23		0.00			
24												24			T	0.08								24		0.08			
25												25												25		0.00			
26												26				0.39	0.02							26		0.41			
27												27		0.14	0.04									27		0.18			
28												28												28		0.00			
29												29												29		T			
30												30												30		0.53			
31	0.55	0.14	0.20	0.14	0.01	0.04	0.04	0.07	0.02	0.01	0.01	31	T			T							0.16	0.37	31		1.23		

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.25	.38	.40	.44	.54	.62	.72	.75	.77	.93	1.13	1.20
Ending Date	16	16	16	16	11	11	11	11	31	31	31	31
Ending Time (Hour/Min)	1537	1540	1544	1548	1337	1335	1347	1358	0116	0104	0116	0136

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 AUGUST 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							10.00	10.00	
03							9.00	10.00	
04							.00	10.00	
05							10.00	10.00	
06							10.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							4.00	10.00	
10							6.00	10.00	
11							.75	10.00	
12							.25	10.00	
13							6.00	10.00	
14							7.00	10.00	
15							10.00	10.00	
16							1.50	10.00	
17							8.00	10.00	
18							10.00	10.00	
19							10.00	10.00	
20							10.00	10.00	
21							7.00	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							10.00	10.00	
25							8.00	10.00	
26							3.00	10.00	
27							4.00	10.00	
28							10.00	10.00	
29							10.00	10.00	
30							2.00	10.00	
31							1.50	10.00	
MONTHLY AVGS							7.41	10.00	
SUNSHINE (MINUTES)									
Total: Possible: Percent Possible:									
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR PTLY CLDY CLOUDY MISSING 31									
MINIMUM VISIBILITY (MILES)									
<=0.25 <=3.0 >=7.0 2 6 22									

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX

AUGUST 2003

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: 0540					AUG 01					SUNSET: 1915					SUNRISE: 0544					AUG 07					SUNSET: 1911				
03	CLR	NC		10.00		80	76	77	87	5	19	29.91	30.02	03	FEW	NC		10.00		80	77	78	90	6	24	29.77	29.88		
06	BKN	250		10.00		78	76	77	93	0	00	29.93	30.05	06	BKN	250		10.00		80	76	77	87	7	25	29.82	29.93		
09	BKN	250		10.00		86	74	78	67	9	22	29.94	30.06	09	BKN	250		10.00		86	75	78	70	13	25	29.82	29.94		
12	BKN	250		10.00		92	71	77	51	7	23	29.92	30.03	12	BKN	250		10.00		96	74	80	49	6	31	29.79	29.91		
15	SCT	NC		10.00		96	69	77	42	9	21	29.86	29.98	15	BKN	250		10.00		104	66	77	29	13	35	29.73	29.84		
18	SCT	NC		10.00		90	75	79	62	12	18	29.85	29.96	18	BKN	250		10.00		101	66	77	32	9	03	29.70	29.81		
21	FEW	NC		10.00		84	74	77	72	10	19	29.86	29.97	21	SCT	NC		10.00		92	63	73	38	7	06	29.76	29.88		
24	CLR	NC		10.00		81	75	77	82	0	00	29.89	30.01	24	CLR	NC		10.00		85	69	74	59	5	18	29.78	29.90		
SUNRISE: 0541					AUG 02					SUNSET: 1915					SUNRISE: 0544					AUG 08					SUNSET: 1910				
03	FEW	NC		10.00		78	76	77	93	0	00	29.87	29.98	03	CLR	NC		10.00		81	75	77	82	0	00	29.75	29.87		
06	SCT	NC		10.00		78	76	77	93	3	18	29.86	29.97	06	CLR	NC		10.00		80	77	78	90	0	00	29.80	29.91		
09	BKN	024		10.00		85	75	78	72	10	22	29.86	29.98	09	BKN	250		10.00		89	71	77	55	7	26	29.81	29.93		
12	SCT	NC		10.00		92	71	77	51	9	23	29.87	29.98	12	BKN	250		10.00		96	71	78	44	5	20	29.78	29.90		
15	BKN	250		10.00		95	70	77	44	5	VR	29.81	29.93	15	BKN	250		10.00		101	71	79	38	9	12	29.73	29.84		
18	BKN	250		10.00		92	75	80	58	9	18	29.78	29.90	18	BKN	250		10.00		87	80	82	80	8	24	29.71	29.83		
21	SCT	NC		10.00		85	74	77	70	9	19	29.82	29.94	21	SCT	NC		10.00		79	76	77	90	7	15	29.78	29.90		
24	SCT	NC		10.00		82	76	78	82	7	19	29.84	29.96	24	BKN	250		10.00		80	77	78	90	0	00	29.79	29.90		
SUNRISE: 0541					AUG 03					SUNSET: 1914					SUNRISE: 0545					AUG 09					SUNSET: 1909				
03	FEW	NC		10.00		80	76	77	87	5	VR	29.85	29.97	03	BKN	250		10.00		80	78	79	94	5	12	29.77	29.89		
06	SCT	NC		9.00		77	76	76	96	3	17	29.86	29.98	06	OVC	080		9.00		80	77	78	90	6	10	29.81	29.93		
09	SCT	NC		10.00		85	75	78	72	9	25	29.89	30.00	09	BKN	060		10.00		85	80	81	85	6	25	29.85	29.97		
12	SCT	NC		10.00		92	72	78	52	6	18	29.86	29.98	12	BKN	065		10.00		92	73	78	54	3	VR	29.84	29.96		
15	SCT	NC		10.00		96	68	77	40	6	VR	29.82	29.93	15	OVC	043		10.00	TS	86	72	76	63	13	19	29.79	29.91		
18	BKN	250		10.00		90	76	80	63	17	14	29.79	29.90	18	OVC	075		10.00		79	75	76	88	8	14	29.78	29.90		
21	BKN	250		10.00		85	73	77	68	9	19	29.81	29.92	21	OVC	250		10.00		77	75	76	94	0	00	29.83	29.94		
24	SCT	NC		10.00		81	75	77	82	7	19	29.84	29.96	24	OVC	250		10.00		77	76	76	96	0	00	29.86	29.97		
SUNRISE: 0542					AUG 04					SUNSET: 1913					SUNRISE: 0546					AUG 10					SUNSET: 1908				
03	SCT	NC		10.00		79	76	77	90	0	00	29.84	29.96	03	OVC	250		10.00		78	76	77	93	0	00	29.84	29.96		
06	BKN	250		10.00		78	75	76	90	0	00	29.86	29.98	06	BKN	250		6.00	BR	77	76	76	96	0	00	29.87	29.99		
09	BKN	020		10.00		86	76	79	72	7	23	29.87	29.98	09	BKN	250		9.00		85	76	79	75	7	32	29.90	30.01		
12	SCT	NC		10.00		92	72	78	52	8	20	29.86	29.97	12	SCT	NC		8.00		91	74	79	57	6	01	29.87	29.99		
15	BKN	075		10.00		95	70	77	44	6	22	29.81	29.93	15	SCT	NC		8.00		93	71	78	49	5	18	29.82	29.94		
18	SCT	NC		10.00		92	71	77	51	15	17	29.79	29.90	18	SCT	NC		10.00		87	74	78	65	13	17	29.80	29.92		
21	FEW	NC		10.00		84	74	77	72	8	19	29.82	29.93	21	SCT	NC		10.00		80	72	75	76	0	00	29.83	29.94		
24	FEW	NC		10.00		81	76	77	85	3	18	29.84	29.96	24	FEW	NC		10.00		78	72	74	82	0	00	29.84	29.96		
SUNRISE: 0543					AUG 05					SUNSET: 1912					SUNRISE: 0546					AUG 11					SUNSET: 1907				
03	SCT	NC		10.00		79	76	77	90	5	18	29.83	29.94	03	FEW	NC		10.00		76	73	74	91	0	00	29.83	29.95		
06	BKN	250		10.00		79	76	77	90	3	19	29.83	29.94	06	BKN	250		6.00	BR	75	74	74	96	3	24	29.84	29.96		
09	BKN	023		10.00		87	76	79	70	8	20	29.85	29.97	09	SCT	NC		10.00		85	73	77	68	10	25	29.84	29.96		
12	SCT	NC		10.00		92	72	78	52	8	23	29.86	29.97	12	OVC	130		10.00		88	72	77	59	3	VR	29.86	29.97		
15	SCT	NC		10.00		96	68	77	40	3	VR	29.81	29.93	15	OVC	024		7.00	RA	70	69	69	97	17	09	29.83	29.95		
18	SCT	NC		10.00		91	74	79	57	10	16	29.77	29.89	18	OVC	250		10.00		76	71	73	85	6	24	29.77	29.88		
21	SCT	NC		10.00		86	73	77	65	7	19	29.80	29.91	21	BKN	250		10.00		74	71	72	91	5	21	29.79	29.91		
24	FEW	NC		10.00		82	75	77	79	6	18	29.82	29.94	24	SCT	NC		10.00		72	71	71	97	0	00	29.80	29.92		
SUNRISE: 0543					AUG 06					SUNSET: 1912					SUNRISE: 0547					AUG 12					SUNSET: 1906				
03	CLR	NC		10.00		80	76	77	87	6	19	29.82	29.93	03	SCT	NC		8.00		69	69	69	100	5	33	29.78	29.90		
06	SCT	NC		10.00		79	77	78	94	0	00	29.86	29.97	06	OVC	002		0.25	BR	69	69	69	100	5	34	29.81	29.93		
09	SCT	NC		10.00		86	75	78	70	9	23	29.87	29.99	09	OVC	006		3.00		72	69	70	91	9	36	29.83	29.94		
12	SCT	NC		10.00		92	72	78	52	9	25	29.84	29.96	12	BKN	025		10.00		80	69	73	69	9	34	29.82	29.94		
15	BKN	250		10.00		96	68	77	40	7	VR	29.79	29.90	15	BKN	120		10.00		85	68	74	57	20	03	29.78	29.90		
18	SCT	NC		10.00		96	69	77	42	8	23	29.74	29.85	18	SCT	NC		10.00		83	68	73	61	15	36	29.78	29.90		
21	CLR	NC		10.00		89	73	78	59	8	21	29.77	29.89	21	SCT	NC		10.00		72	68	69	87	8	06	29.84	29.96		
24	CLR	NC		10.00		83	75	77	77	5	23	29.78	29.90	24	SCT	NC		10.00		70	69	69	97	6	35	29.87	29.98		

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX

AUGUST 2003

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		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		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	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: 0547				AUG 13				SUNSET: 1906				SUNRISE: 0551				AUG 19				SUNSET: 1860			
03	CLR	NC	10.00	69	68	68	96	5	01	29.85	29.97	03	CLR	NC	10.00	78	75	76	90	0	00	29.90	30.01
06	OVC	090	7.00	70	69	69	97	6	34	29.88	29.99	06	BKN	250	10.00	77	75	76	94	0	00	29.93	30.05
09	BKN	250	10.00	76	70	72	82	8	03	29.92	30.03	09	BKN	026	10.00	84	77	79	80	6	25	29.97	30.09
12	SCT	NC	10.00	84	70	74	63	13	02	29.93	30.04	12	SCT	NC	10.00	91	73	78	56	5	VR	29.94	30.06
15	BKN	250	10.00	87	69	75	55	9	08	29.90	30.01	15	BKN	055	10.00	89	75	79	63	21	15	29.90	30.02
18	BKN	250	10.00	81	70	74	69	7	10	29.92	30.03	18	BKN	250	10.00	88	76	79	68	8	17	29.88	29.99
21	BKN	250	10.00	78	73	75	85	7	06	29.95	30.07	21	BKN	250	10.00	83	76	78	79	7	16	29.92	30.03
24	BKN	080	10.00	76	74	75	94	6	09	29.99	30.11	24	FEW	NC	10.00	80	76	77	87	3	VR	29.91	30.03
SUNRISE: 0548				AUG 14				SUNSET: 1905				SUNRISE: 0551				AUG 20				SUNSET: 1859			
03	BKN	250	10.00	74	73	73	97	7	04	30.00	30.11	03	FEW	NC	10.00	78	76	77	93	0	00	29.90	30.02
06	OVC	048	7.00	74	73	73	97	12	12	30.05	30.16	06	FEW	NC	10.00	77	75	76	94	0	00	29.93	30.04
09	OVC	120	10.00	75	72	73	90	0	00	30.13	30.24	09	SCT	NC	10.00	85	77	79	77	0	00	29.95	30.07
12	OVC	150	10.00	84	73	76	70	7	VR	30.14	30.26	12	SCT	NC	10.00	91	72	78	54	8	21	29.93	30.04
15	SCT	NC	10.00	86	74	78	67	6	VR	30.10	30.22	15	BKN	090	10.00	91	75	80	59	18	14	29.88	29.99
18	BKN	250	10.00	86	72	76	63	6	13	30.08	30.20	18	BKN	250	10.00	86	75	78	70	12	17	29.88	30.00
21	SCT	NC	10.00	80	74	76	82	0	00	30.10	30.22	21	SCT	NC	10.00	83	76	78	79	6	21	29.89	30.01
24	FEW	NC	10.00	77	73	74	88	3	36	30.10	30.21	24	SCT	NC	10.00	80	76	77	87	3	18	29.91	30.02
SUNRISE: 0549				AUG 15				SUNSET: 1904				SUNRISE: 0552				AUG 21				SUNSET: 1858			
03	CLR	NC	10.00	75	73	74	94	5	35	30.07	30.18	03	SCT	NC	10.00	78	76	77	93	0	00	29.90	30.02
06	SCT	NC	10.00	75	72	73	90	5	35	30.10	30.21	06	SCT	NC	10.00	77	76	76	96	0	00	29.92	30.04
09	BKN	250	10.00	84	73	76	70	9	02	30.10	30.22	09	BKN	035	10.00	85	77	79	77	6	24	29.94	30.06
12	BKN	250	10.00	92	68	76	46	18	03	30.07	30.19	12	BKN	085	10.00	91	73	78	56	5	33	29.91	30.02
15	OVC	250	10.00	95	68	76	41	18	04	29.99	30.11	15	BKN	250	10.00	93	72	78	50	6	VR	29.84	29.96
18	OVC	250	10.00	89	71	77	55	9	03	29.96	30.07	18	BKN	250	10.00	85	76	79	75	8	16	29.84	29.95
21	OVC	250	10.00	84	73	76	70	8	01	29.96	30.08	21	BKN	060	10.00	77	74	75	90	7	33	29.93	30.04
24	BKN	250	10.00	82	74	76	77	6	05	29.96	30.08	24	BKN	250	10.00	76	74	75	94	6	34	29.87	29.99
SUNRISE: 0549				AUG 16				SUNSET: 1903				SUNRISE: 0553				AUG 22				SUNSET: 1857			
03	SCT	NC	10.00	78	75	76	90	6	02	29.93	30.05	03	SCT	NC	10.00	74	73	73	97	7	05	29.85	29.97
06	SCT	NC	7.00	76	74	75	94	6	01	29.94	30.05	06	OVC	130	10.00	73	72	72	96	6	02	29.87	29.99
09	SCT	NC	10.00	85	76	79	75	8	06	29.97	30.08	09	OVC	130	10.00	77	72	74	85	7	05	29.92	30.03
12	SCT	NC	10.00	90	74	79	59	9	07	29.95	30.06	12	BKN	130	10.00	83	69	74	63	8	15	29.91	30.03
15	BKN	055	10.00	91	77	81	64	5	VR	29.87	29.99	15	BKN	130	10.00	86	71	76	61	7	14	29.83	29.95
18	SCT	NC	10.00	82	77	78	85	6	24	29.86	29.98	18	SCT	NC	10.00	88	70	76	55	5	VR	29.80	29.91
21	FEW	NC	10.00	79	78	78	97	0	00	29.86	29.98	21	SCT	NC	10.00	81	73	75	77	6	12	29.84	29.95
24	FEW	NC	10.00	78	76	77	93	0	00	29.88	29.99	24	SCT	NC	10.00	78	71	73	79	0	00	29.85	29.96
SUNRISE: 0550				AUG 17				SUNSET: 1902				SUNRISE: 0553				AUG 23				SUNSET: 1855			
03	CLR	NC	10.00	78	76	77	93	5	26	29.86	29.98	03	SCT	NC	10.00	76	73	74	91	5	36	29.85	29.97
06	FEW	NC	8.00	77	75	76	94	3	27	29.88	30.00	06	SCT	NC	10.00	75	73	74	94	3	28	29.89	30.00
09	FEW	NC	10.00	84	75	78	74	8	31	29.90	30.01	09	BKN	250	10.00	83	73	76	72	7	27	29.91	30.02
12	FEW	NC	10.00	90	76	80	63	5	21	29.86	29.98	12	SCT	NC	10.00	88	71	76	57	0	00	29.91	30.03
15	SCT	NC	10.00	95	75	80	53	6	18	29.81	29.92	15	SCT	NC	10.00	92	70	77	49	5	VR	29.84	29.96
18	OVC	250	10.00	92	74	79	56	6	16	29.80	29.91	18	BKN	250	10.00	88	73	77	61	13	08	29.85	29.96
21	BKN	250	10.00	81	75	77	82	7	03	29.83	29.95	21	SCT	NC	10.00	82	74	76	77	8	12	29.88	29.99
24	SCT	NC	10.00	79	76	77	90	3	18	29.84	29.96	24	SCT	NC	10.00	79	74	75	85	0	00	29.89	30.01
SUNRISE: 0550				AUG 18				SUNSET: 1901				SUNRISE: 0554				AUG 24				SUNSET: 1854			
03	SCT	NC	10.00	80	76	77	87	3	21	29.85	29.96	03	SCT	NC	10.00	78	74	75	87	0	00	29.89	30.01
06	BKN	250	10.00	79	76	77	90	0	00	29.88	30.00	06	SCT	NC	10.00	76	74	75	94	0	00	29.93	30.04
09	BKN	250	10.00	84	75	78	74	7	VR	29.92	30.03	09	FEW	NC	10.00	85	73	77	68	6	32	29.96	30.07
12	BKN	250	10.00	90	74	79	59	5	26	29.91	30.02	12	SCT	NC	10.00	91	70	76	50	0	00	29.92	30.04
15	BKN	250	10.00	94	74	80	52	7	17	29.86	29.97	15	BKN	050	10.00	90	73	78	58	18	05	29.87	29.99
18	BKN	250	10.00	84	73	76	70	0	00	29.85	29.97	18	BKN	250	10.00	85	74	77	70	0	00	29.83	29.95
21	SCT	NC	10.00	82	74	76	77	5	17	29.88	30.00	21	SCT	NC	10.00	80	77	78	90	0	00	29.90	30.01
24	SCT	NC	10.00	81	75	77	82	3	17	29.90	30.01	24	SCT	NC	10.00	79	75	76	88	0	00	29.89	30.01

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX

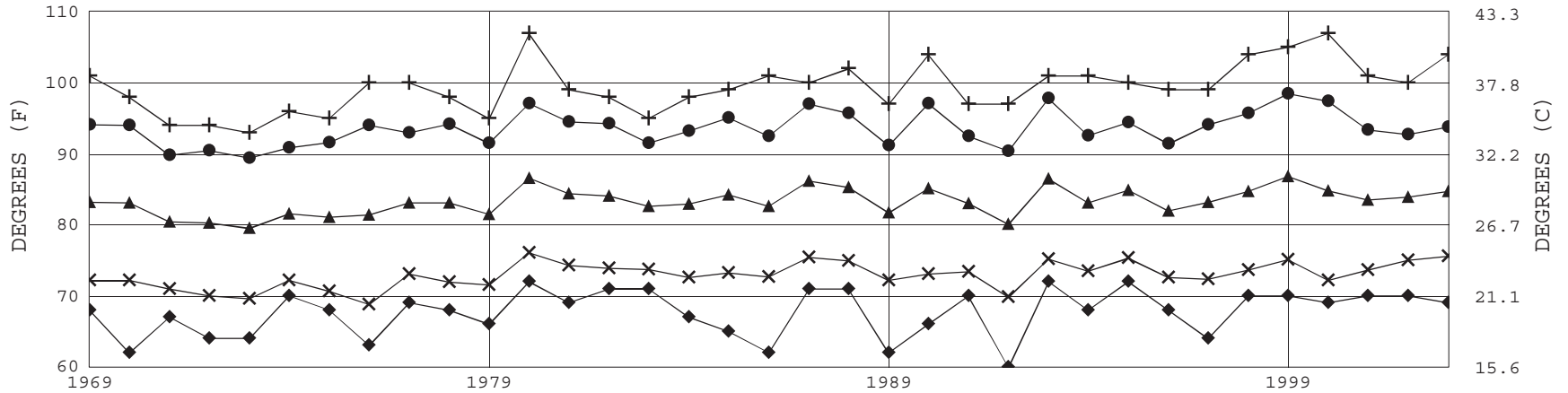
AUGUST 2003

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		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		SKY COVER	CEILING		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: 0554								AUG 25				SUNSET: 1853				SUNRISE: 0558								AUG 31				SUNSET: 1846			
03	SCT	NC			10.00		FU	78	75	76	90	0	00	29.89	30.01	03	OVC	033			10.00	-RA	75	74	74	96	8	04	29.74	29.86	
06	SCT	NC			8.00			76	75	75	97	3	34	29.91	30.02	06	OVC	043			8.00	RA	75	74	74	96	10	01	29.70	29.82	
09	BKN	250			10.00			84	76	78	77	0	00	29.94	30.05	09	OVC	008			6.00	-RA BR	76	74	75	94	12	03	29.70	29.82	
12	BKN	250			10.00			92	73	79	54	5	VR	29.91	30.03	12	OVC	006			8.00		77	76	76	96	12	17	29.72	29.84	
15	BKN	250			10.00			94	71	78	48	7	VR	29.85	29.96	15	OVC	030			10.00		81	74	76	79	12	17	29.71	29.83	
18	BKN	250			10.00			90	75	79	62	12	12	29.83	29.95	18	OVC	110			10.00		81	76	77	85	7	18	29.71	29.83	
21	BKN	250			10.00			84	75	78	74	6	16	29.89	30.00	21	BKN	250			10.00		78	76	77	93	5	12	29.77	29.88	
24	BKN	250			10.00			80	76	77	87	0	00	29.90	30.01	24	SCT	NC			10.00		78	76	77	93	6	18	29.80	29.92	
SUNRISE: 0555								AUG 26				SUNSET: 1852				3-HOURLY OBSERVATION NOTES															
03	OVC	250			9.00			78	76	77	93	0	00	29.87	29.99	Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, VV = Vertical Visibility = 8/8.															
06	BKN	022			7.00			77	75	76	94	0	00	29.90	30.01	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.															
09	BKN	023			10.00			84	76	78	77	5	32	29.93	30.04	& = Original observation contained additional weather elements.															
12	BKN	250			10.00			88	75	79	66	5	22	29.90	30.01	See page 3 for additional notes.															
15	BKN	250			10.00			91	74	79	57	5	VR	29.82	29.93																
18	OVC	250			10.00			85	77	79	77	9	10	29.82	29.93																
21	BKN	250			10.00			81	78	79	91	6	13	29.87	29.98																
24	SCT	NC			10.00			80	78	79	94	3	10	29.87	29.98																
SUNRISE: 0555								AUG 27				SUNSET: 1851				SUMMARY BY HOUR															
03	SCT	NC			10.00			78	77	77	97	0	00	29.85	29.96	AVERAGES															
06	BKN	250			10.00			77	76	76	96	0	00	29.88	29.99	RESULTANT WIND (MPH)															
09	BKN	250			10.00			84	77	79	80	0	00	29.91	30.02	HOUR (LST)															
12	BKN	250			10.00			91	75	80	59	3	VR	29.88	30.00	CEILOMETER															
15	OVC	130			10.00			85	77	79	77	13	10	29.81	29.93	EFF CLD AMT															
18	OVC	250			10.00			85	78	80	80	12	12	29.80	29.92	DRY BULB															
21	BKN	250			10.00			82	76	78	82	7	18	29.83	29.94	DEW POINT															
24	SCT	NC			10.00			80	77	78	90	5	16	29.86	29.98	WET BULB															
SUNRISE: 0556								AUG 28				SUNSET: 1850				PRESSURE (INCHES, HG)															
03	SCT	NC			10.00			79	77	78	94	3	18	29.84	29.95	STATION															
06	BKN	250			10.00			77	76	76	96	0	00	29.87	29.99	SEA LEVEL															
09	SCT	NC			10.00			85	75	78	72	3	17	29.91	30.03	VISIBILITY (MILES)															
12	BKN	250			10.00			91	75	80	59	10	12	29.88	30.00	WIND SPEED (MPH)															
15	BKN	250			10.00			91	74	79	57	14	12	29.81	29.93	SPEED															
18	BKN	250			10.00			87	74	78	65	12	11	29.81	29.93	DIRECTION															
21	SCT	NC			10.00			82	75	77	79	6	14	29.83	29.95																
24	SCT	NC			10.00			80	76	77	87	0	00	29.85	29.97																
SUNRISE: 0557								AUG 29				SUNSET: 1849																			
03	SCT	NC			10.00			78	76	77	93	0	00	29.85	29.96																
06	SCT	NC			10.00			78	76	77	93	3	05	29.84	29.96																
09	BKN	250			10.00			86	77	80	75	9	12	29.87	29.98																
12	BKN	075			10.00			88	75	79	66	9	09	29.86	29.98																
15	BKN	250			10.00			91	73	78	56	14	10	29.81	29.93																
18	BKN	250			10.00			87	74	78	65	14	13	29.78	29.90																
21	SCT	NC			10.00			82	75	77	79	5	12	29.84	29.96																
24	SCT	NC			10.00			81	77	78	88	5	11	29.85	29.97																
SUNRISE: 0557								AUG 30				SUNSET: 1848																			
03	SCT	NC			10.00			79	77	78	94	5	03	29.81	29.93																
06	BKN	020			10.00			77	75	76	94	3	03	29.83	29.95																
09	SCT	NC			10.00			84	77	79	80	7	03	29.86	29.97																
12	OVC	250			10.00			88	76	79	68	16	08	29.85	29.96																
15	OVC	250			10.00			82	74	76	77	13	07	29.81	29.93																
18	OVC	120			10.00			82	75	77	79	18	09	29.77	29.89																
21	OVC	090			10.00			78	75	76	90	9	06	29.82	29.93																
24	OVC	010			9.00		-RA	76	75	75	97	10	01	29.78	29.90																

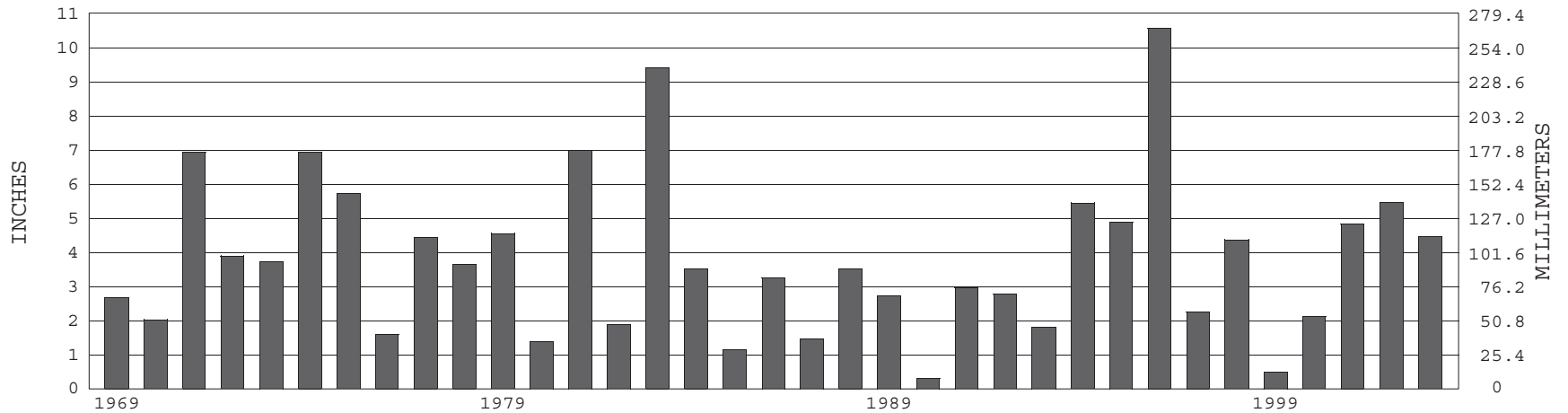
HOUSTON, TX AUGUST TEMPERATURES



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

Long-Term (1969-2003) Mean: 83.3 1961-1990 Normal: 83.3

HOUSTON, TX AUGUST PRECIPITATION



Long-Term (1969-2003) Mean Monthly Total: 3.84

1961-1990 Normal: 3.83



AUGUST 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.

DIRECTOR

NCDC now offers an annual online subscription for the **Edited Local Climatological Data Publication**. When you purchase this subscription service, you will have **immediate online access** to all previous publications back to July 1996 and all publications thereafter until the expiration of the subscription. Your subscription is valid for one year after purchase. **The total cost is \$29 for online delivery (including back issues) compared to \$34 for offline delivery.** To order this and other subscriptions online with your credit card, go to: www.ncdc.noaa.gov and choose subscriptions.

We welcome your questions or comments, please contact us at
Toll Free Number (866) 742–3322 (voice)
Fax Number :(304) 726–4409
TDD : 828–271–4010
or Email : ncdc.info@noaa.gov
Local Climatological Data is available at www.ncdc.noaa.gov

For address correction, please return a photocopy of this page to Subscription Services indicating changes

NCDC Subscription Services Center
310 State Route 956 Building 300
Rocket Center, WV 26726

OFFICIAL BUSINESS. PENALTY FOR PRIVATE USE \$300

FIRST CLASS
POSTAGE AND FEES PAID
NOAA
PERMIT G-19