



OCTOBER 2005

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

HOUSTON, TX

G BUSH INTCNTL APT/HOU APT (IAH)
 Lat: 29°59' N Long: 95°21' W Elev (Ground): 118 Feet
 Time Zone: CENTRAL WBAN: 12960 ISSN #:0198-5094

OCTOBER 2005
HOUSTON, TX

DATE	TEMPERATURE °F						DEG DAYS BASE 65°		WEATHER	SNOW/ICE ON GND(IN)		PRECIPITATION (INCHES)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES						DATE																									
	MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	HEATING	COOLING		0600 LST	1200 LST	2400 LST	2400 LST	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM																												
																			5-SEC		2-MIN																										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																								
01	90	72	81	6	71	74	0	16	BR	0		0.0	0.00	29.85	29.96	8.2	12	8.7	21	10	18	13	01																								
02	91	74	83	8	74	76	0	18	RA	0		0.0	T	29.88	30.00	9.3	10	10.2	26	12	23	12	02																								
03	91	75	83	8	72	75	0	18	BR	0		0.0	0.00	29.90	30.01	8.0	09	9.2	21	09	18	09	03																								
04	90	74	82	8	71	74	0	17		0		0.0	0.00	29.86	29.97	8.3	09	9.7	23	08	20	11	04																								
05	92	73	83*	9	69	73	0	18		0		0.0	0.00	29.81	29.92	6.7	07	7.8	24	11	16	10	05																								
06	92*	66	79	6	63	69	0	14		0		0.0	0.00	29.80	29.91	10.5	01	11.2	31	34	24	35	06																								
07	76	61	69	-4	50	58	0	4		0		0.0	0.00	29.85	29.97	12.0	34	12.2	30	02	20	36	07																								
08	76	56	66	-7	47	55	0	1		0		0.0	0.00	29.81	29.92	5.6	02	7.1	18	36	15	36	08																								
09	82	51	67	-6	49	56	0	2		0		0.0	0.00	29.75	29.86	3.4	10	4.9	15	12	12	12	09																								
10	76	58	67	-5	61	64	0	2	RA BR HZ	0		0.0	0.55	29.75	29.86	9.0	08	10.0	23	13	20	11	10																								
11	85	66	76	4	64	68	0	11	RA	0		0.0	T	29.82	29.93	4.1	07	6.5	23	28	18	29	11																								
12	88	66	77	5	64	69	0	12		0		0.0	0.00	29.87	29.98	4.8	05	5.9	15	09	13	05	12																								
13	86	65	76	5	61	66	0	11		0		0.0	0.00	29.93	30.04	5.0	03	6.0	17	01	14	02	13																								
14	88	66	77	6	60	65	0	12	HZ	0		0.0	0.00	30.00	30.12	4.7	02	5.7	21	01	16	01	14																								
15	85	62	74	3	56	62	0	9	BR	0		0.0	0.00	29.96	30.07	3.5	05	4.5	15	03	13	03	15																								
16	86	58	72	2	53	60	0	7		0		0.0	0.00	29.94	30.05	1.6	07	2.3	15	04	10	09	16																								
17	88	58	73	3	55	62	0	8		0		0.0	0.00	29.92	30.04	1.0	20	2.3	12	09	7	20	17																								
18	89	61	75	5	60	65	0	10	BR	0		0.0	0.00	29.88	29.99	2.1	18	3.8	15	15	13	14	18																								
19	89	60	75	5	61	66	0	10	MIFG	0		0.0	0.00	29.85	29.96	4.7	16	5.4	20	13	17	13	19																								
20	89	61	75	6	64	68	0	10	MIFG	0		0.0	0.00	29.78	29.90	3.2	17	5.0	16	14	14	14	20																								
21	86	63	75	6	56	63	0	10		0		0.0	0.00	29.84	29.96	7.6	35	8.0	22	01	17	02	21																								
22	81	55	68	0	52	58	0	3		0		0.0	0.00	29.85	29.97	5.8	01	6.7	22	03	17	02	22																								
23	84	53	69	1	45	55	0	4		0		0.0	0.00	29.87	29.99	10.2	01	10.7	33	03	28	01	23																								
24	68	46	57*	-11	32	45	8	0		0		0.0	0.00	30.12	30.24	10.3	34	10.8	26	01	21	36	24																								
25	73	42	58	-9	33	46	7	0		0		0.0	0.00	30.06	30.18	2.4	33	3.6	17	02	15	33	25																								
26	75	41	58	-9	43	51	7	0		0		0.0	0.00	29.97	30.08	5.7	13	6.9	20	14	17	13	26																								
27	77	48	63	-4	42	51	2	0		0		0.0	0.00	30.03	30.15	7.2	06	7.8	23	11	18	06	27																								
28	74	45	60	-6	38	49	5	0		0		0.0	0.00	30.17	30.28	5.6	06	6.5	25	06	16	04	28																								
29	75	41*	58	-8	44	51	7	0		0		0.0	0.00	30.17	30.29	3.0	12	5.3	15	12	13	15	29																								
30	79	52	66	0	58	61	0	1	BR	0		0.0	0.00	30.12	30.23	8.9	12	10.0	23	12	21	12	30																								
31	82	57	70	4	59	62	0	5	TSRA RA BR	0		0.0	1.14	30.02	30.14	2.3	17	9.9	39*	31	30*	31	31																								
83.3										58.9		71.1		■ ■		55.7		61.8		1.2		7.5		< MONTHLY AVERAGES		TOTALS->		0.0		1.69		29.92		30.03		2.9		04		7.3		<- MONTHLY AVERAGES					
1.3										0.1		0.7		■ ■		<-----DEPARTURE FROM NORMAL----->																				-2.81		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.14 DATE: 31										SEA LEVEL PRESSURE										DATE		TIME															
MONTHLY										GREATEST 24-HR SNOWFALL: 0.0 DATE:										MAXIMUM										: 30.35		29 0953															
TOTAL DEPARTURE										SEASON TO DATE										MINIMUM										: 29.80		10 0453															
HEATING: 36 -1 36 -2										NUMBER OF DAYS WITH =>										MAXIMUM TEMP ≥ 90: 6										MINIMUM TEMP ≤ 32: 0										PRECIPITATION ≥ 0.01 INCH: 2							
COOLING: 233 37 3147 344																				MAXIMUM TEMP ≤ 32: 0										MINIMUM TEMP ≤ 0: 0										PRECIPITATION ≥ 0.10 INCH: 2							
																				THUNDERSTORMS: 1										HEAVY FOG: 0										SNOWFALL ≥ 1.0 INCH: 0							

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX

OCTOBER 2005

IAH

WBAN # 12960

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note)	2400 LST	
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			Water	Equiv.
01													01	T	T	T			T							01		0.00	
02													02													02		T	
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		0.00	
09													09													09		0.00	
10								0.07	0.20	0.21	0.01	0.03	10	0.03											10		0.55		
11													11							T					11		T		
12													12								T				12		0.00		
13													13												13		0.00		
14													14												14		0.00		
15													15												15		0.00		
16													16												16		0.00		
17													17												17		0.00		
18													18												18		0.00		
19													19												19		0.00		
20													20												20		0.00		
21													21												21		0.00		
22													22												22		0.00		
23													23												23		0.00		
24													24												24		0.00		
25													25												25		0.00		
26													26												26		0.00		
27													27												27		0.00		
28													28												28		0.00		
29													29												29		0.00		
30													30												30		0.00		
31													31				0.59	0.32	0.18	0.05	T				31		1.14		

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.26	.46	.63	.73	.79	.84	.88	.94	1.02	1.08	1.12	1.14
Ending Date	31	31	31	31	31	31	31	31	31	31	31	31
Ending Time (Hour/Min)	1646	1651	1655	1700	1707	1722	1737	1759	1819	1839	1909	1920

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 OCTOBER 2005

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							2.00	10.00	
02							8.00	10.00	
03							4.00	10.00	
04							10.00	10.00	
05							8.00	10.00	
06							10.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							9.00	10.00	
10							3.00	10.00	
11							9.00	10.00	
12							7.00	10.00	
13							8.00	10.00	
14							6.00	10.00	
15							5.00	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							3.00	10.00	
19							7.00	10.00	
20							8.00	10.00	
21							9.00	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							10.00	10.00	
29							8.00	10.00	
30							5.00	10.00	
31							1.00	10.00	
MONTHLY AVGS							7.74	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 0 4 23									

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX

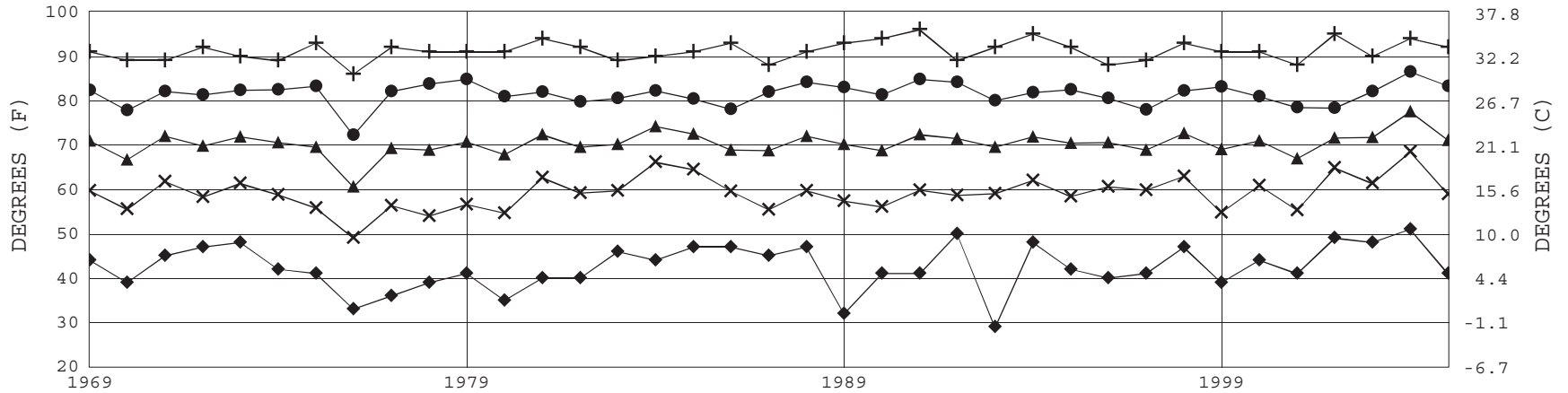
OCTOBER 2005

IAH

WBAN # 12960

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)																	
	SKY COVER	CEILING		OBSERVATION TIME (LST)	EFF CLD AMT Oktas			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		SKY COVER	CEILING		OBSERVATION TIME (LST)	EFF CLD AMT Oktas			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL																
SUNRISE: 0630								OCT 25								SUNSET: 1740								SUNRISE: 0635								OCT 31								SUNSET: 1735							
03	CLR	NC				10.00		46	36	42	68	0	00	30.10	30.22	03	BKN	038				6.00	BR	63	62	62	97	5	11	30.04	30.16																
06	CLR	NC				10.00		43	35	40	74	5	30	30.11	30.23	06	BKN	060				7.00		65	62	63	90	7	12	30.04	30.16																
09	CLR	NC				10.00		57	36	47	45	5	VR	30.13	30.25	09	BKN	050				10.00		72	63	66	73	9	13	30.06	30.17																
12	CLR	NC				10.00		69	29	50	22	14	34	30.10	30.21	12	BKN	075				10.00		79	59	67	50	14	16	30.00	30.12																
15	CLR	NC				10.00		72	29	52	20	7	VR	30.00	30.11	15	BKN	075				10.00		79	60	67	52	14	18	29.88	30.00																
18	CLR	NC				10.00		61	28	46	29	0	00	29.99	30.11	18	OVC	044				4.00	+RA BR	61	59	60	93	7	05	29.97	30.09																
21	CLR	NC				10.00		53	35	45	51	0	00	30.01	30.13	21	OVC	014				10.00		58	55	56	90	14	32	30.06	30.18																
24	CLR	NC				10.00		47	38	43	71	0	00	30.00	30.12	24	FEW	NC				10.00		58	51	54	78	9	31	30.06	30.18																
SUNRISE: 0631								OCT 26								SUNSET: 1739								3-HOURLY OBSERVATION NOTES																							
03	CLR	NC				10.00		44	40	42	85	5	03	29.99	30.11	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	CLR	NC				10.00		46	40	43	79	3	02	30.00	30.12	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																															
09	FEW	NC				10.00		62	45	53	54	6	13	30.03	30.15	NC = No ceiling detected.																															
12	CLR	NC				10.00		73	38	55	28	6	VR	29.97	30.09	& = Original observation contained additional weather elements.																															
15	FEW	NC				10.00		74	41	57	31	15	13	29.89	30.01	See page 3 for additional notes.																															
18	CLR	NC				10.00		65	44	54	47	9	13	29.91	30.03																																
21	CLR	NC				10.00		58	48	53	70	6	12	29.96	30.07																																
24	CLR	NC				10.00		52	46	49	80	8	09	29.97	30.09																																
SUNRISE: 0632								OCT 27								SUNSET: 1739								SUMMARY BY HOUR																							
03	FEW	NC				10.00		49	44	47	83	3	04	29.96	30.08	AVERAGES																															
06	FEW	NC				10.00		51	43	47	74	0	00	30.00	30.11	RESULTANT WIND (MPH)																															
09	SCT	NC				10.00		64	43	53	46	8	07	30.05	30.16	HOUR (LST)																															
12	SCT	NC				10.00		74	39	56	28	13	06	30.04	30.16	CEILOMETER																															
15	SCT	NC				10.00		76	39	57	27	14	05	29.99	30.10	EFF CLD AMT																															
18	BKN	130				10.00		68	40	54	36	7	08	30.03	30.14	DRY BULB																															
21	SCT	NC				10.00		58	42	50	56	8	07	30.10	30.22	DEW POINT																															
24	FEW	NC				10.00		54	42	48	64	7	05	30.12	30.24	WET BULB																															
SUNRISE: 0633								OCT 28								SUNSET: 1738								RELATIVE HUMIDITY																							
03	CLR	NC				10.00		51	42	47	71	0	00	30.13	30.24	PRESSURE (INCHES,HG)																															
06	FEW	NC				10.00		47	40	44	77	3	03	30.16	30.27	STATION																															
09	CLR	NC				10.00		62	37	50	40	15	08	30.21	30.33	SEA LEVEL																															
12	CLR	NC				10.00		70	36	53	29	15	04	30.20	30.32	VISIBILITY (MILES)																															
15	CLR	NC				10.00		73	34	54	24	10	08	30.12	30.24	WIND SPEED (MPH)																															
18	CLR	NC				10.00		63	37	50	38	7	05	30.14	30.26	SPEED																															
21	CLR	NC				10.00		55	40	48	57	6	04	30.19	30.30	DIRECTION																															
24	CLR	NC				10.00		48	40	44	74	0	00	30.20	30.31																																
SUNRISE: 0633								OCT 29								SUNSET: 1737																															
03	CLR	NC				10.00		46	40	43	79	3	33	30.18	30.29																																
06	CLR	NC				9.00		44	39	42	83	5	04	30.19	30.32																																
09	CLR	NC				10.00		60	40	50	48	5	07	30.23	30.34																																
12	FEW	NC				10.00		69	45	56	42	7	15	30.21	30.32																																
15	FEW	NC				10.00		74	47	59	38	8	13	30.13	30.24																																
18	SCT	NC				10.00		66	49	57	54	10	15	30.12	30.24																																
21	CLR	NC				8.00		58	51	54	78	7	14	30.15	30.27																																
24	CLR	NC				10.00		55	48	51	77	0	00	30.14	30.26																																
SUNRISE: 0634								OCT 30								SUNSET: 1736																															
03	SCT	NC				8.00		54	50	52	87	3	36	30.13	30.24																																
06	FEW	NC				6.00	BR	53	51	52	93	7	06	30.14	30.25																																
09	SCT	NC				9.00		68	58	62	70	10	11	30.16	30.28																																
12	SCT	NC				10.00		77	62	68	60	14	14	30.14	30.26																																
15	BKN	070				10.00		76	63	68	64	15	12	30.08	30.20																																
18	SCT	NC				10.00		71	63	66	76	16	13	30.07	30.19																																
21	FEW	NC				8.00		66	63	64	90	6	11	30.10	30.22																																
24	CLR	NC				6.00	BR	63	61	62	93	7	11	30.06	30.18																																

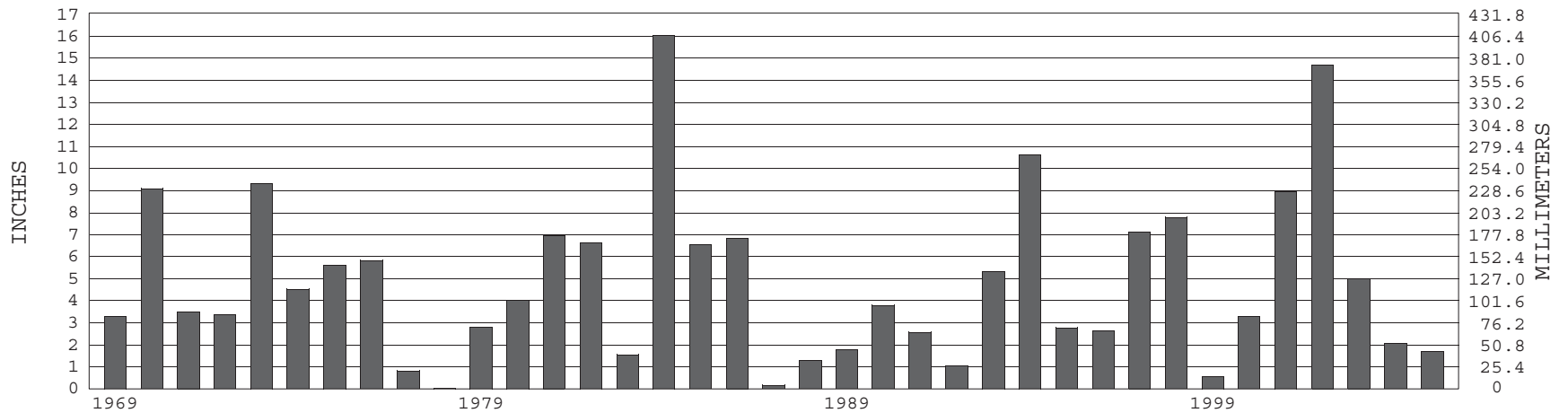
HOUSTON, TX OCTOBER TEMPERATURES



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

Long-Term (1969-2005) Mean: 70.3 1971-2000 Normal: 70.4

HOUSTON, TX OCTOBER PRECIPITATION



Long-Term (1969-2005) Mean Monthly Total: 4.86

1971-2000 Normal: 4.50



OCTOBER 2005

HOUSTON, TX

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites operated by NOAA – National Weather Service / Department Of Transportation – Federal Aviation Administration and received at the National Climatic Data Center (NCDC), Asheville, North Carolina 28801.

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