



# SEPTEMBER 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

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	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
01	94	75	85	3	74	77	0	20	BR	0	0.0	0.00	29.90	30.01	4.9	08	6.7	18	12	16	11	01		
02	94	75	85*	3	73	77	0	20		0	0.0	0.00	29.82	29.93	5.0	09	6.4	17	10	15	10	02		
03	84	75	80	-2	75	76	0	15	TS RA	0	0.0	0.02	29.84	29.95	7.3	05	8.1	24	06	21	06	03		
04	86	74	80	-2	74	76	0	15		0	0.0	0.00	29.88	29.99	8.6	05	9.2	22	10	18	08	04		
05	90	74	82	0	72	75	0	17		0	0.0	0.00	29.81	29.92	10.0	06	10.6	25	08	22	09	05		
06	83	74	79	-2	72	74	0	14	TSRA RA BR	0	0.0	0.52	29.72	29.83	12.9	05	13.8	29	05	23	06	06		
07	84	74	79	-2	76	77	0	14	TSRA RA FG BR	0	0.0	2.85	29.69	29.80	15.2	08	15.9	30	06	26	06	07		
08	82	74	78	-2	75	76	0	13	RA	0	0.0	0.20	29.79	29.90	11.9	08	12.5	26	08	23	09	08		
09	86	74	80	0	75	76	0	15	TSRA RA BR	0	0.0	0.13	29.81	29.92	9.6	08	10.6	29	07	25	07	09		
10	90	73	82	2	73	75	0	17	BR	0	0.0	0.00	29.78	29.89	7.2	05	7.6	20	05	17	04	10		
11	94	73	84	4	71	74	0	19	BR HZ	0	0.0	0.00	29.78	29.88	2.8	06	4.4	17	06	14	11	11		
12	95	73	84	4	70	74	0	19	BR HZ	0	0.0	0.00	29.77	29.88	1.9	03	3.2	13	06	9	06	12		
13	95*	73	84	5	70	74	0	19	BR HZ	0	0.0	0.00	29.73	29.84	0.6	18	2.2	10	12	9	12	13		
14	94	73	84	5	69	74	0	19	BR HZ	0	0.0	0.00	29.77	29.88	2.3	21	4.0	16	13	13	14	14		
15	81	72	77	-2	74	74	0	12	TSRA RA BR HZ	0	0.0	0.33	29.91	30.02	0.2	28	3.5	14	08	10	07	15		
16	81	72	77	-2	74	74	0	12	RA BR HZ	0	0.0	0.20	29.91	30.03	4.6	08	6.3	15	13	13	13	16		
17	88	75	82	3	76	77	0	17	TS TSRA RA BR	0	0.0	0.41	29.81	29.92	3.5	14	5.7	30	17	23	18	17		
18	91	77	84	6	77	78	0	19		0	0.0	0.00	29.70	29.81	8.4	17	8.4	22	18	20	14	18		
19	86	74	80	2	76	77	0	15	TS TSRA RA FG BR	0	0.0	3.35	29.62	29.73	5.1	16	8.2	43*	29	37*	29	19		
20	85	68	77	-1	66	69	0	12	TS RA	0	0.0	0.01	29.69	29.79	5.3	32	5.9	21	35	16	34	20		
21	86	63	75*	-3	63	67	0	10		0	0.0	0.00	29.74	29.85	1.1	36	2.4	12	01	9	36	21		
22	86	67	77	0	67	70	0	12		0	0.0	0.00	29.81	29.92	10.1	01	10.4	28	01	23	01	22		
23	86	69	78	1	64	68	0	13		0	0.0	0.00	29.86	29.97	11.9	02	12.1	25	01	21	01	23		
24	87	66	77	0	62	67	0	12	RA	0	0.0	T	29.83	29.94	12.9	02	13.3	29	01	24	02	24		
25	88	69	79	2	64	69	0	14		0	0.0	0.00	29.69	29.80	14.3	36	14.7	31	01	26	01	25		
26	90	68	79	3	63	68	0	14		0	0.0	0.00	29.55	29.66	10.3	34	10.5	25	31	22	32	26		
27	91	63*	77	1	61	67	0	12	MIFG	0	0.0	0.00	29.71	29.83	1.3	04	2.8	17	04	9	13	27		
28	89	66	78	2	67	70	0	13	MIFG	0	0.0	0.00	29.85	29.97	2.0	11	3.3	15	13	12	09	28		
29	88	68	78	2	67	71	0	13	BR	0	0.0	0.00	29.90	30.01	3.1	11	4.4	21	08	13	13	29		
30	89	66	78	3	69	71	0	13	BR	0	0.0	0.00	29.88	29.99	4.4	13	4.9	20	14	15	13	30		

88.1	71.2	79.7	■ ■	70.3	73.1	0.0	15.0	< MONTHLY AVERAGES	TOTALS->	0.0	8.02	29.79	29.90	1.2	03	7.7	<- MONTHLY AVERAGES
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-1.2	2.8	0.8	■ ■	->-----DEPARTURE FROM NORMAL-----<						3.69	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3							
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<b>DEGREE DAYS</b>				GREATEST 24-HR PRECIPITATION: 3.36 DATE: 19-20				SEA LEVEL PRESSURE DATE TIME							
MONTHLY TOTAL DEPARTURE				SEASON TO DATE TOTAL DEPARTURE				GREATEST 24-HR SNOWFALL: 0.0 DATE:				MAXIMUM MINIMUM			
HEATING: 0 -1				0 -1				GREATEST SNOW DEPTH: 0 DATE:				: 30.10 15 1253			
COOLING: 449 37				2910 303				NUMBER OF DAYS WITH =>				: 29.61 26 1453			
								MAXIMUM TEMP ≥ 90: 11				PRECIPITATION ≥ 0.01 INCH : 10			
								MAXIMUM TEMP ≤ 32 : 0				PRECIPITATION ≥ 0.10 INCH : 8			
								THUNDERSTORMS : 8				HEAVY FOG : 0			
								MINIMUM TEMP ≤ 32 : 0				SNOWFALL ≥ 1.0 INCH : 0			

SEPTEMBER 2002  
 HOUSTON, TX

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## HOUSTON, TX

SEPTEMBER 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													01												01		0.00		
02													02												02		0.00		
03													03				0.02								03		0.02		
04													04												04		0.00		
05													05												05		0.00		
06													06												06		0.52		
07	0.01		T	T	0.01	0.38	0.11	1.11	0.61	0.26	T	06	0.01	T	0.11	0.01	T	T	0.04	0.11	0.07	0.05	0.15	0.10	06		2.85		
08	0.06	0.01		T	0.06	0.01			T		0.06	07	T					T	T	T	0.14		0.01	0.08	07		0.20		
09												08		0.06	0.07										08		0.13		
10												09													09		0.00		
11												10													10		0.00		
12												11													11		0.00		
13												12													12		0.00		
14												13													13		0.00		
15												14													14		0.00		
16												15	0.20	0.08	0.01	T	T			T				15		0.33			
17												16		T	T	0.11	T	T						16		0.20			
18					T							17			0.21	T								17		0.41			
19												18												18		0.00			
20	0.01											19	0.01	T	T	1.08	1.46	0.02	T		T	0.04	0.05	0.54	19		3.35		
21												20												20		0.01			
22												21												21		0.00			
23												22												22		0.00			
24												23												23		0.00			
25												24									T			24		T			
26												25												25		0.00			
27												26												26		0.00			
28												27												27		0.00			
29												28												28		0.00			
30												29												29		0.00			
31												30												30		0.00			

### MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.42	.62	.90	1.15	1.42	1.47	1.98	2.06	2.52	2.54	2.54	2.56
Ending Date	19	19	19	19	19	19	19	19	19	19	19	19
Ending Time (Hour/Min)	1631	1631	1630	1633	1637	1637	1633	1648	1637	1648	1648	1751

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 SEPTEMBER 2002

Ceilorometer (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							6.00	10.00	
02							7.00	10.00	
03							10.00	10.00	
04							10.00	10.00	
05							10.00	10.00	
06							6.00	10.00	
07							.50	10.00	
08							10.00	10.00	
09							6.00	10.00	
10							5.00	10.00	
11							5.00	10.00	
12							3.00	10.00	
13							3.00	6.00	
14							3.00	8.00	
15							1.75	7.00	
16							2.50	10.00	
17							1.00	10.00	
18							8.00	10.00	
19							.00	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							8.00	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							4.00	10.00	
30							5.00	10.00	
<b>MONTHLY AVGS</b>							6.81	9.70	
<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 0            7            16									



# OBSERVATIONS AT 3-HOURLY INTERVALS

# HOUSTON, TX

SEPTEMBER 2002

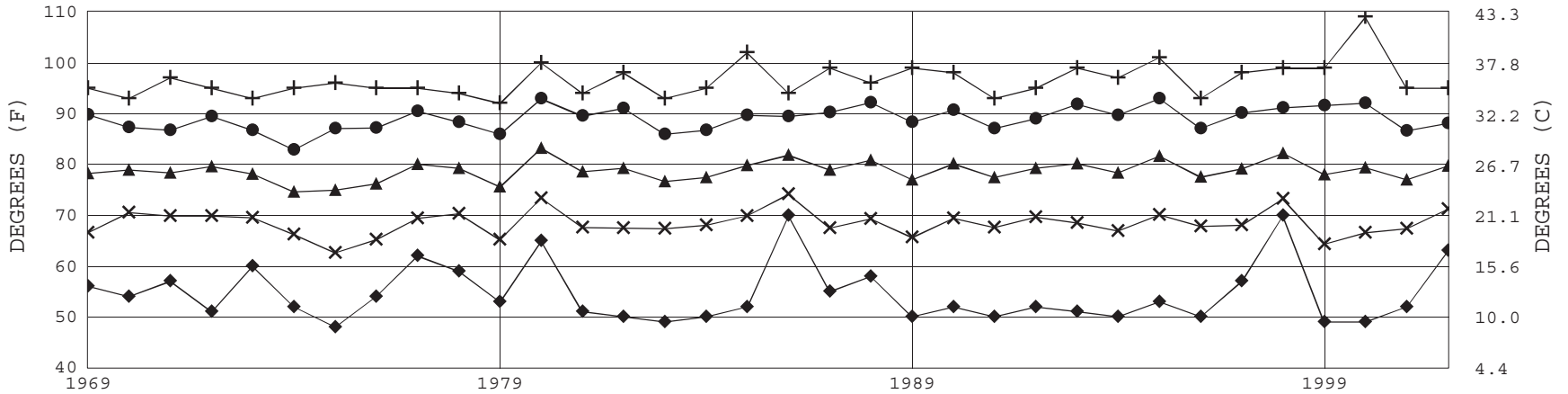
IAH

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: 0605					SEP 13				SUNSET: 1830				SUNRISE: 0608					SEP 19				SUNSET: 1823							
03	SCT	NC		3.00	BR	74	72	73	94	0	00	29.74	29.85	03	BKN	250		10.00		81	78	79	91	10	17	29.61	29.72		
06	BKN	250		3.00	BR	74	72	73	94	0	00	29.75	29.87	06	OVC	130		10.00		80	78	79	94	6	17	29.63	29.74		
09	SCT	NC		4.00	HZ	82	71	75	69	0	00	29.78	29.89	09	OVC	021		10.00		84	78	80	82	12	19	29.64	29.75		
12	SCT	NC		5.00	HZ	91	68	75	47	0	00	29.75	29.86	12	OVC	080		10.00	-RA	78	76	77	93	7	17	29.61	29.72		
15	SCT	NC		5.00	HZ	94	64	74	37	5	28	29.69	29.80	15	OVC	075		10.00	-TSRA	80	72	75	76	9	12	29.58	29.70		
18	BKN	250		5.00	HZ	90	69	76	50	8	13	29.66	29.77	18	OVC	130		10.00	-TSRA	75	74	74	96	9	12	29.58	29.70		
21	SCT	NC		5.00	HZ	81	73	75	77	0	00	29.70	29.81	21	OVC	042		10.00		75	74	74	96	10	12	29.61	29.73		
24	FEW	NC		5.00	HZ	78	72	74	82	5	25	29.70	29.81	24	OVC	022		10.00	TSRA BR	75	74	74	96	0	00	29.63	29.74		
SUNRISE: 0605					SEP 14				SUNSET: 1829				SUNRISE: 0609					SEP 20				SUNSET: 1822							
03	CLR	NC		5.00	HZ	77	71	73	82	3	27	29.71	29.82	03	OVC	013		10.00		72	70	71	94	9	31	29.63	29.74		
06	FEW	NC		3.00	BR	73	71	72	94	0	00	29.73	29.84	06	OVC	060		10.00		68	65	66	90	5	32	29.67	29.78		
09	CLR	NC		5.00	HZ	83	71	75	67	3	27	29.78	29.89	09	BKN	250		10.00		70	64	66	82	9	31	29.72	29.83		
12	FEW	NC		7.00		90	64	73	42	5	23	29.79	29.90	12	BKN	250		10.00		79	63	69	58	14	34	29.71	29.82		
15	SCT	NC		7.00		93	62	73	36	3	VR	29.75	29.86	15	BKN	250		10.00		82	65	71	56	7	VR	29.66	29.77		
18	SCT	NC		8.00		89	66	74	47	12	13	29.75	29.86	18	SCT	NC		10.00		82	61	69	49	3	VR	29.66	29.77		
21	CLR	NC		6.00	HZ	82	72	75	72	7	18	29.81	29.93	21	FEW	NC		10.00		72	67	69	84	0	00	29.71	29.83		
24	SCT	NC		5.00	BR	77	74	75	90	0	00	29.83	29.94	24	CLR	NC		10.00		69	65	66	87	0	00	29.73	29.84		
SUNRISE: 0606					SEP 15				SUNSET: 1828				SUNRISE: 0609					SEP 21				SUNSET: 1821							
03	SCT	NC		4.00	BR	77	74	75	90	0	00	29.86	29.97	03	CLR	NC		10.00		66	62	64	87	0	00	29.72	29.83		
06	SCT	NC		2.00	BR	74	73	73	97	5	36	29.87	29.98	06	CLR	NC		10.00		64	61	62	90	0	00	29.73	29.85		
09	OVC	250		4.00	HZ	80	75	77	85	7	33	29.90	30.02	09	CLR	NC		10.00		75	64	68	69	6	VR	29.78	29.89		
12	OVC	023		1.75	RA BR	78	77	77	97	6	22	29.98	30.09	12	FEW	NC		10.00		82	62	69	51	0	00	29.77	29.88		
15	OVC	100		3.00	-RA	76	71	73	85	7	VR	29.93	30.04	15	FEW	NC		10.00		85	60	69	43	6	VR	29.71	29.82		
18	OVC	130		3.00	BR	75	73	74	94	8	15	29.90	30.02	18	CLR	NC		10.00		84	61	69	46	6	04	29.70	29.81		
21	OVC	130		3.00	BR	73	73	73	100	7	34	29.92	30.03	21	CLR	NC		10.00		74	67	69	79	0	00	29.75	29.86		
24	OVC	070		2.50	BR	73	73	73	100	3	34	29.91	30.02	24	CLR	NC		10.00		70	65	67	84	3	31	29.76	29.87		
SUNRISE: 0606					SEP 16				SUNSET: 1827				SUNRISE: 0610					SEP 22				SUNSET: 1819							
03	OVC	130		2.50	BR	73	73	73	100	3	34	29.90	30.02	03	CLR	NC		10.00		68	63	65	84	3	35	29.76	29.87		
06	OVC	019		4.00	BR	74	70	71	88	6	01	29.91	30.03	06	SCT	NC		10.00		69	67	68	93	7	35	29.80	29.91		
09	OVC	029		3.00	HZ	76	71	73	85	7	11	29.96	30.08	09	SCT	NC		10.00		79	72	74	79	14	01	29.82	29.94		
12	OVC	022		4.00	HZ	79	74	75	85	6	05	29.94	30.05	12	OVC	028		10.00		83	71	75	67	20	01	29.82	29.93		
15	OVC	130		9.00		80	75	77	85	8	11	29.89	30.01	15	BKN	070		10.00		85	68	74	57	17	03	29.77	29.89		
18	OVC	085		7.00		78	76	77	93	8	11	29.89	30.01	18	BKN	075		10.00		81	64	70	57	12	02	29.80	29.91		
21	OVC	095		8.00	-RA	76	75	75	97	9	12	29.91	30.02	21	BKN	110		10.00		75	66	69	74	6	03	29.86	29.97		
24	OVC	006		10.00		75	75	75	100	6	04	29.85	29.97	24	SCT	NC		10.00		71	65	67	81	7	35	29.85	29.97		
SUNRISE: 0607					SEP 17				SUNSET: 1826				SUNRISE: 0610					SEP 23				SUNSET: 1818							
03	OVC	016		10.00		75	75	75	100	7	11	29.85	29.97	03	BKN	250		10.00		71	63	66	76	12	02	29.84	29.96		
06	OVC	004		4.00	BR	75	75	75	100	5	13	29.85	29.96	06	OVC	046		10.00		70	62	65	76	12	03	29.87	29.98		
09	OVC	037		7.00		80	77	78	90	0	00	29.87	29.98	09	SCT	NC		10.00		75	63	67	66	14	04	29.89	30.01		
12	BKN	090		8.00		82	78	79	88	5	20	29.84	29.95	12	SCT	NC		10.00		83	66	72	57	15	01	29.87	29.99		
15	BKN	080		10.00	TS	88	76	79	68	3	VR	29.75	29.86	15	BKN	250		10.00		85	64	71	50	15	02	29.82	29.93		
18	BKN	250		10.00		80	76	77	87	13	10	29.75	29.87	18	BKN	130		10.00		82	66	71	58	10	03	29.83	29.95		
21	BKN	250		10.00		79	78	78	97	6	16	29.78	29.90	21	SCT	NC		10.00		75	65	69	71	8	02	29.88	29.99		
24	FEW	NC		10.00		78	78	78	100	7	16	29.76	29.87	24	FEW	NC		10.00		72	60	65	66	12	02	29.88	30.00		
SUNRISE: 0608					SEP 18				SUNSET: 1824				SUNRISE: 0611					SEP 24				SUNSET: 1817							
03	SCT	NC		10.00		78	78	78	100	0	00	29.73	29.84	03	BKN	060		10.00		70	55	61	59	9	02	29.86	29.98		
06	BKN	250		8.00		77	77	77	100	0	00	29.74	29.85	06	BKN	060		10.00		67	52	59	59	12	36	29.86	29.98		
09	BKN	022		10.00		83	78	79	85	10	16	29.76	29.87	09	BKN	120		10.00		73	54	62	51	16	01	29.88	29.99		
12	BKN	250		10.00		89	74	78	61	13	17	29.71	29.83	12	FEW	NC		10.00		83	64	71	53	16	01	29.83	29.95		
15	BKN	130		10.00		89	74	78	61	12	17	29.65	29.77	15	SCT	NC		10.00		86	67	73	53	21	02	29.77	29.88		
18	BKN	250		10.00		85	76	78	75	9	16	29.64	29.75	18	OVC	055		10.00		82	68	73	63	14	04	29.78	29.89		
21	SCT	NC		10.00		82	78	79	88	12	17	29.65	29.77	21	BKN	041		10.00		78	67	71	69	10	03	29.82	29.93		
24	BKN	250		10.00		81	78	79	91	10	18	29.62	29.73	24	SCT	NC		10.00		74	67	69	79	12	04	29.81	29.92		



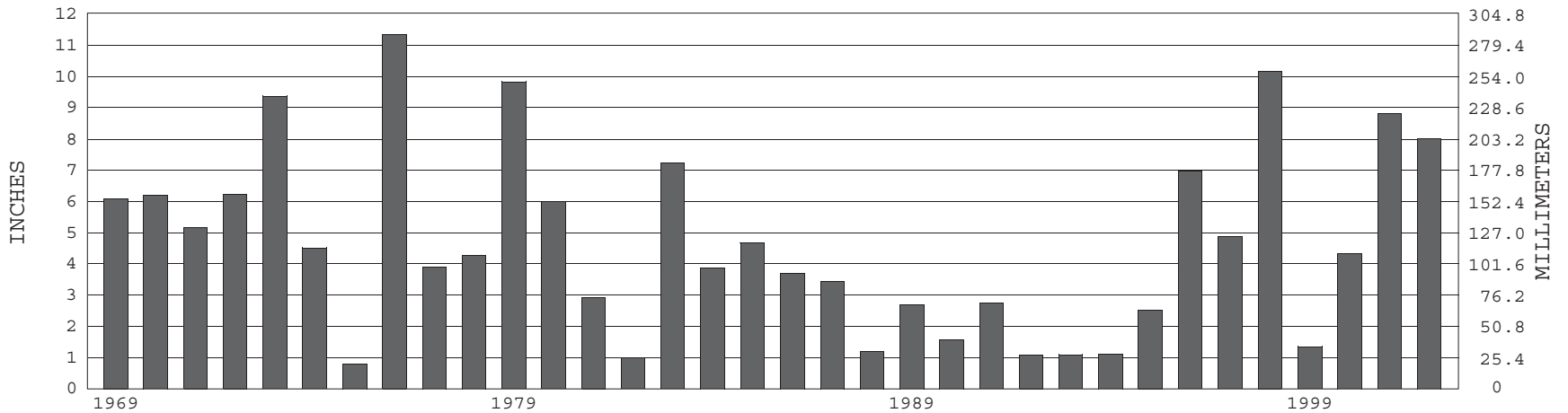
### HOUSTON, TX SEPTEMBER TEMPERATURES



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

Long-Term (1969-2002) Mean: 78.7      1961-1990 Normal: 78.9

### HOUSTON, TX SEPTEMBER PRECIPITATION



Long-Term (1969-2002) Mean Monthly Total: 4.68

1961-1990 Normal: 4.33



SEPTEMBER 2002

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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