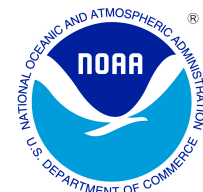




# JUNE 2006 LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

**HOUSTON, TX**  
**G BUSH INTERCONTINENTAL AP/HOU AP (KIAH)**  
 Lat:29° 59'N Long: 95° 21'W Elev (Ground) 94 Feet  
 Time Zone : CENTRAL WBAN: 12960 ISSN#: 0198-5094



Date 1	Temperature °F						Deg Days BASE 65°		WEATHER 10	SNOW/ICE ON GND(IN)		PRECIPITATION ON GND(IN)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								Date 24
	MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEP FROM NORMAL 5	AVERAGE DEW PT 6	AVERAGE WET BULB 7	HEATING 8	COOLING 9		0600 LST 11	1200 LST 12	2400 LST 13	2400 LST 14	AVERAGE STATION 15	AVERAGE SEA LEVEL 16	RESULTANT SPEED 17	RES DIR 18	AVERAGE SPEED 19	MAXIMUM					
																			5-SEC		2-MIN			
01	82	72	77*	-2	70	72	0	12	TSRA RA BR HZ	0		0.0	0.05	29.89	30.01	3.5	05	5.4	22	14	18	14	01	
02	91	72	82	2	68	72	0	17	RA BR HZ	0		0.0	T	29.86	29.98	0.6	01	3.2	14	36	13	01	02	
03	91	72	82	2	68	72	0	17	HZ	0		0.0	0.00	29.83	29.95	2.7	07	5.6	16	04	14	04	03	
04	92	71	82	2	67	72	0	17	BR HZ	0		0.0	0.00	29.79	29.90	2.1	19	3.9	15	15	12	16	04	
05	91	71	81	1	68	72	0	16	BR	0		0.0	0.00	29.79	29.90	2.5	17	4.7	15	09	13	09	05	
06	92	71	82	2	66	71	0	17	BR	0		0.0	0.00	29.80	29.92	4.3	18	5.3	17	19	15	15	06	
07	93	69	81	1	66	72	0	16	MIFG	0		0.0	0.00	29.83	29.94	4.0	22	5.3	15	20	13	15	07	
08	93	72	83	3	68	73	0	18		0		0.0	0.00	29.85	29.96	1.7	20	4.2	14	17	9	19	08	
09	94	73	84	4	68	73	0	19	RA	0		0.0	T	29.81	29.93	1.6	19	5.7	14	16	12	17	09	
10	94	73	84	3	67	72	0	19	HZ	0		0.0	0.00	29.73	29.85	4.2	18	5.5	22	14	18	14	10	
11	91	71	81	0	68	72	0	16	BR HZ	0		0.0	0.00	29.72	29.83	5.2	14	6.0	21	13	17	14	11	
12	96	67	82	1	63	70	0	17	BR	0		0.0	0.00	29.81	29.92	0.7	17	2.5	14	11	12	11	12	
13	100*	75	88*	7	66	72	0	23	TS RA	0		0.0	T	29.82	29.93	3.0	36	6.5	40*	06	33*	06	13	
14	91	71	81	0	61	68	0	16		0		0.0	0.00	29.84	29.96	4.9	08	7.0	16	12	14	12	14	
15	92	67*	80	-1	69	73	0	15	BR HZ	0		0.0	0.00	29.83	29.95	8.3	14	8.7	29	14	25	14	15	
16	89	76	83	2	71	74	0	18	RA	0		0.0	0.00	29.82	29.93	12.8	13	13.4	30	12	24	14	16	
17	87	69	78	-4	73	75	0	13	TS TSRA RA FG BR HZ	0		0.0	1.43	29.84	29.94	7.9	15	10.1	30	15	28	15	17	
18	90	72	81	-1	72	75	0	16	TS TSRA RA FG BR	0		0.0	1.18	29.84	29.95	2.3	20	6.9	29	29	23	15	18	
19	82	73	78	-4	72	73	0	13	TSRA RA BR	0		0.0	4.43	29.85	29.97	6.2	08	8.0	26	10	21	10	19	
20	84	72	78	-4	71	73	0	13	RA	0		0.0	0.14	29.90	30.01	7.0	13	8.1	21	16	17	16	20	
21	92	73	83	1	72	75	0	18	MIFG	0		0.0	0.00	29.90	30.01	8.4	16	8.7	23	15	18	14	21	
22	90	71	81	-1	72	74	0	16	TS TSRA RA BR	0		0.0	0.51	29.96	30.07	3.3	16	6.3	38	28	31	29	22	
23	94	72	83	1	72	75	0	18	BR	0		0.0	0.00	29.93	30.05	1.5	17	3.9	17	15	15	15	23	
24	92	75	84	2	71	75	0	19		0		0.0	0.00	29.90	30.02	2.1	35	4.2	14	01	12	05	24	
25	95	75	85	3	70	75	0	20	TS BR HZ	0		0.0	0.00	29.85	29.97	4.3	36	5.1	18	33	16	34	25	
26	95	74	85	3	64	71	0	20		0		0.0	0.00	29.86	29.97	6.9	36	7.5	28	01	17	36	26	
27	91	69	80	-3	60	67	0	15		0		0.0	0.00	29.95	30.05	4.3	02	5.6	16	02	13	01	27	
28	91	68	80	-3	61	68	0	15		0		0.0	0.00	30.01	30.12	3.2	05	4.0	16	04	14	03	28	
29	91	69	80	-3	63	69	0	15		0		0.0	0.00	29.99	30.11	1.5	07	4.4	13	08	10	06	29	
30	91	69	80	-3	69	72	0	15	TSRA RA HZ	0		0.0	0.08	29.94	30.06	2.3	15	3.5	21	17	18	17	30	

91.2			71.5			81.4			☼	67.9			72.2			0.0			16.6			< MONTHLY AVERAGES   TOTALS >				0.0		7.84		29.86		29.97		2.1		13		6.0		< MONTHLY AVERAGES			
0.5			-0.3			0.1				<-----DEPARTURE FROM NORMAL----->												2.49		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																			
<b>DEGREE DAYS</b>									GREATEST 24-HR PRECIPITATION : 4.63 DATE : 18-19									SEA LEVEL PRESSURE																									
MONTHLY									GREATEST 24-HR SNOWFALL : 0.0 DATE :									MAXIMUM : 30.18 28 1011																									
TOTAL DEPARTURE									GREATEST SNOW DEPTH : 0 DATE :									MINIMUM : 29.78 10 1746																									
SEASON TO DATE									NUMBER OF -> DAYS WITH									MAXIMUM TEMP >= 90 : 25			MINIMUM TEMP <= 32 : 0			PRECIPITATION >= 0.01 INCH : 8																			
TOTAL DEPARTURE									HEATING : 0 0 1121 -404			MAXIMUM TEMP <= 32 : 0			MINIMUM TEMP <= 0 : 0			PRECIPITATION >= 0.10 INCH : 5																									
TOTAL DEPARTURE									COOLING : 499 14 1290 231			THUNDERSTORMS : 8			HEAVY FOG : 0			SNOWFALL >= 1.0 INCH : 0																									

**JUNE 2006  
HOUSTON, TX**

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX (KIAH)  
JUNE 2006

WBAN # 12960

Date	FOR HOUR (LST) ENDING AT												Date	FOR HOUR (LST) ENDING AT												Date	Sum of Hourly Data	2400 LST Water Equiv.
	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												T	01	0.04	0.01	T									01	0.05	0.05	
02													02						T						02	T	T	
03													03												03	0.00	0.00	
04													04												04	0.00	0.00	
05													05												05	0.00	0.00	
06													06												06	0.00	0.00	
07													07												07	0.00	0.00	
08													08												08	0.00	0.00	
09				T									09												09	T	T	
10													10												10	0.00	0.00	
11													11												11	0.00	0.00	
12													12												12	0.00	0.00	
13													13			T									13	T	T	
14													14												14	0.00	0.00	
15													15												15	0.00	0.00	
16											0.02		16												16	0.02	0.02	
17	T			T	T						T	0.25	17	0.40	0.02									17	1.43	1.43		
18				T		0.08	0.49		T				18			T	T	0.19	0.35	0.02				18	1.18	1.18		
19	0.13	0.27	0.93	0.86	0.39	0.04		T					19	0.02	0.03		0.05	1.30	0.09		0.02			19	4.43	4.43		
20	0.03	T			T	0.03		T	0.08				20			T					0.11	0.02	0.17	0.02	20	0.14	0.14	
21													21												21	0.00	0.00	
22													22	0.03	0.02		0.05	0.41		T				22	0.51	0.51		
23													23												23	0.00	0.00	
24													24												24	0.00	0.00	
25													25												25	0.00	0.00	
26													26												26	0.00	0.00	
27													27												27	0.00	0.00	
28													28												28	0.00	0.00	
29													29												29	0.00	0.00	
30													30			0.05	0.03							30	0.08	0.08		

\* Indicates sum of Hourly and Daily disagree.

### MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	0.36	0.66	0.84	0.89	1.03	1.23	1.33	1.42	1.51	1.94	2.26	2.44
Ending Date	19	19	19	19	19	19	19	19	19	19	19	19
Ending Time (Hr/Min)	1630	1635	1639	1644	1638	1648	1704	1706	0333	0355	0423	0452

Note : The hourly and daily precipitation totals are printed in the last 2 columns and hi-lighted in red when they disagree. 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.

Date and time are not entered for TRACE amounts.

# 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		
DESCRIPTOR	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	
PR Partial	RA Rain	PY Spray	SQ Squalls
SH Shower(s)	SG Snow Grains	SA Sand	SS Sandstorm
TS Thunderstorm	SN Snow	VA Volcanic Ash	GL Glaze
VC In the Vicinity	UP Unkown Precipitation		

Intensity (as indicated on pages 4 to 6):  
'+' = Heavy    '' = Moderate    '-' = Light

# HOUSTON, TX JUNE 2006

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	
			Sky Cover	Satellite	Sky Cover	Satellite			
01							2.50	10.00	
02							3.00	10.00	
03							4.00	10.00	
04							3.00	10.00	
05							4.00	10.00	
06							6.00	10.00	
07							7.00	10.00	
08							7.00	10.00	
09							7.00	10.00	
10							4.00	10.00	
11							4.00	10.00	
12							6.00	10.00	
13							7.00	10.00	
14							7.00	10.00	
15							5.00	10.00	
16							9.00	10.00	
17							1.00	10.00	
18							3.00	10.00	
19							0.75	10.00	
20							7.00	10.00	
21							8.00	10.00	
22							2.00	10.00	
23							5.00	10.00	
24							7.00	10.00	
25							4.00	10.00	
26							9.00	10.00	
27							10.00	10.00	
28							10.00	10.00	
29							8.00	10.00	
30							1.00	10.00	
MONTHLY AVGS							5.38	10.00	
<b>SUNSHINE (Minutes)</b>									
Total :					Possible :				
Percent Possible :									
<b>NUMBER OF DAYS WITH :</b>									
SKY CONDITION									
Clear		Partly CLDY			Cloudy			Missing	
<b>MINIMUM VISIBILITY (MILES)</b>									
<= .25		<= 3.0			>= 7.0				
0		8			13				





# OBSERVATIONS AT 3-HOURLY INTERVALS

# HOUSTON, TX

## JUNE 2006

## KIAH

## WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		
			Observation Time (LST)	Eff Cl'd Amt Oktas			DRY BULB	DEW POINT	WET BULB		RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL
SUNRISE: 0521 JUN 25							SUNSET: 1925						
03	SCT	250			7.00		77	72	74	85	0 00	29.90	30.00
06	SCT	250			4.00	BR	76	72	73	87	0 00	29.90	30.01
09	FEW	035			10.00		87	72	77	61	8 32	29.92	30.02
12	BKN	042			10.00		92	72	78	52	12 36	29.90	30.00
15	BKN	080			10.00		95	68	76	41	10 36	29.83	29.94
18	BKN	250			10.00	TS	90	66	74	45	10 34	29.80	29.91
21	SCT	250			10.00		80	68	72	67	5 04	29.84	29.94
24	FEW	250			10.00		78	69	72	74	3 36	29.84	29.94
SUNRISE: 0521 JUN 26							SUNSET: 1925						
03	BKN	250			10.00		74	69	71	84	5 04	29.84	29.95
06	SCT	250			9.00		75	69	71	82	3 33	29.86	29.97
09	SCT	250			10.00		83	68	73	61	12 03	29.90	30.01
12	SCT	250			10.00		89	64	72	44	10 02	29.88	29.98
15	SCT	250			10.00		93	63	73	37	8 35	29.84	29.94
18	BKN	250			10.00		91	58	70	33	7 35	29.82	29.93
21	FEW	250			10.00		82	59	68	46	7 34	29.86	29.97
24	SCT	250			10.00		77	57	65	50	7 35	29.91	30.01
SUNRISE: 0521 JUN 27							SUNSET: 1925						
03	SCT	250			10.00		72	57	63	59	3 01	29.92	30.03
06	BKN	250			10.00		70	57	62	64	5 35	29.95	30.05
09	SCT	250			10.00		82	61	69	49	9 05	29.98	30.09
12	SCT	250			10.00		87	58	69	37	6 04	29.98	30.08
15	SCT	250			10.00		90	58	70	34	7 VR	29.94	30.05
18	BKN	250			10.00		89	56	68	33	8 04	29.92	30.03
21	SCT	250			10.00		76	63	68	64	0 00	29.95	30.06
24	SCT	250			10.00		73	63	67	71	0 00	29.98	30.10
SUNRISE: 0522 JUN 28							SUNSET: 1925						
03	SCT	250			10.00		70	64	66	81	0 00	30.00	30.11
06	BKN	250			10.00		70	64	66	81	0 00	30.02	30.13
09	BKN	250			10.00		83	63	70	51	3 VR	30.06	30.17
12	BKN	250			10.00		89	57	69	34	10 04	30.05	30.15
15	BKN	250			10.00		90	55	68	31	9 03	30.01	30.12
18	BKN	250			10.00		87	58	69	37	9 07	29.98	30.09
21	BKN	250			10.00		76	63	68	64	0 00	30.00	30.11
24	SCT	250			10.00		72	65	68	79	0 00	30.02	30.13
SUNRISE: 0522 JUN 29							SUNSET: 1925						
03	SCT	250			10.00		71	65	67	81	3 35	30.02	30.12
06	SCT	250			9.00		71	65	67	81	3 34	30.03	30.15
09	BKN	250			10.00		84	68	73	59	6 VR	30.06	30.17
12	BKN	250			10.00		88	58	69	36	5 VR	30.03	30.15
15	BKN	250			10.00		90	61	71	38	7 11	29.98	30.09
18	SCT	250			10.00		88	58	69	36	10 07	29.95	30.05
21	SCT	250			10.00		76	61	67	60	0 00	29.97	30.08
24	SCT	250			10.00		77	64	69	64	6 21	29.98	30.09
SUNRISE: 0523 JUN 30							SUNSET: 1925						
03	SCT	250			9.00		72	66	68	82	0 00	29.97	30.07
06	BKN	250			7.00		71	66	68	84	3 02	29.98	30.09
09	BKN	250			10.00		83	70	74	65	0 00	29.98	30.10
12	BKN	250			10.00		87	67	74	52	3 08	29.96	30.06
15	OVC	130			1.00	TSRA	78	71	73	79	17 16	29.93	30.04
18	OVC	250			9.00		82	75	77	79	7 11	29.90	30.00
21	SCT	250			8.00		77	73	74	88	5 17	29.93	30.04
24	SCT	250			7.00		76	72	73	87	3 18	29.95	30.06

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		
			Observation Time (LST)	Eff Cl'd Amt Oktas			DRY BULB	DEW POINT	WET BULB		RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL

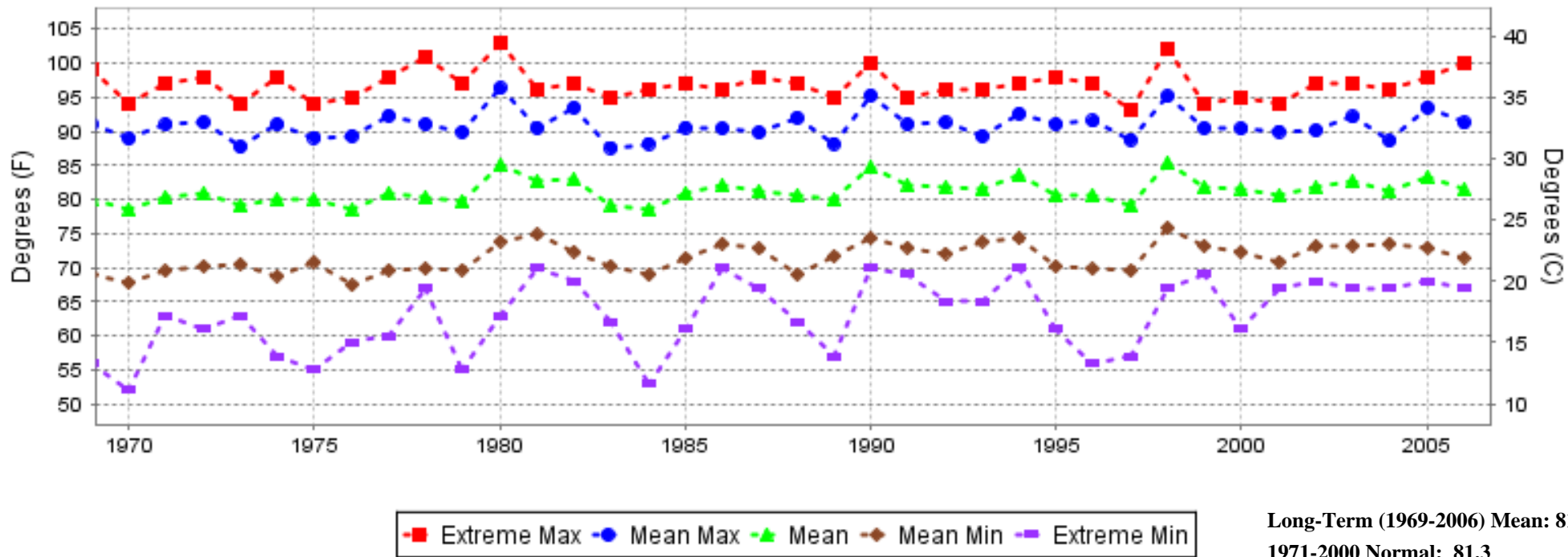
## 3-HOURLY OBSERVATION NOTES

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, W = Vertical Visibility = 8/8  
 Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No Ceiling detected.  
 & = Original observation contained additional weather elements.  
 See page 3 for additional notes.

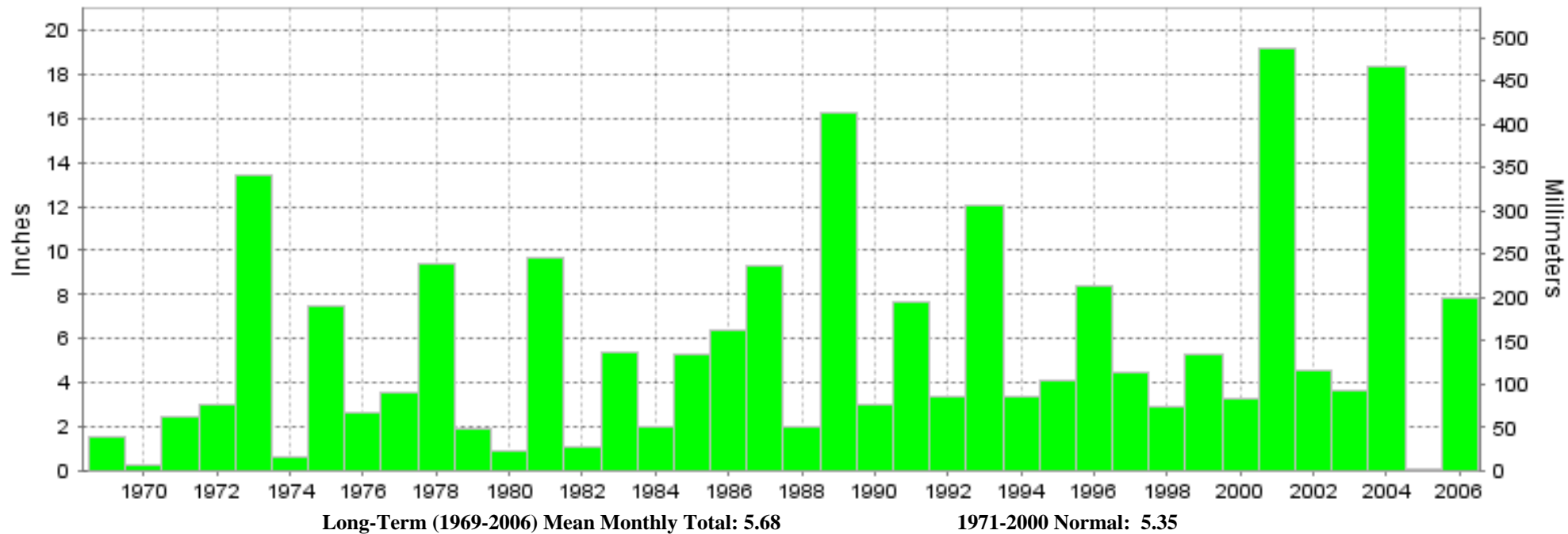
## SUMMARY BY HOUR

HOUR (LST)	AVERAGES										RESULTANT WIND (MPH)	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			76	69	72	79	29.86	29.96	9.00	4	3	16
02			76	69	71	80	29.86	29.96	8.47	4	4	16
03			75	69	71	83	29.86	29.96	8.33	3	4	17
04			74	69	70	84	29.86	29.97	8.09	2	5	16
05			73	69	70	86	29.87	29.98	7.80	2	5	17
06			73	68	70	85	29.88	29.99	6.47	3	4	17
07			76	69	72	80	29.89	30.00	7.32	4	4	15
08			80	69	73	71	29.90	30.01	8.78	7	3	15
09			82	69	73	65	29.91	30.01	9.28	7	3	15
10			85	68	74	59	29.91	30.01	9.27	7	4	16
11			86	68	74	55	29.91	30.01	9.53	6	3	18
12			87	66	73	52	29.89	30.00	9.60	8	6	12
13			88	66	73	50	29.88	29.98	9.83	8	4	14
14			89	66	73	49	29.86	29.97	9.90	8	6	13
15			89	66	73	49	29.85	29.95	9.70	8	4	13
16			88	66	73	50	29.84	29.94	9.40	9	5	13
17			87	66	73	52	29.83	29.93	9.20	9	5	12
18			86	66	73	54	29.82	29.93	9.40	9	5	12
19			83	67	73	60	29.83	29.93	9.77	8	4	12
20			81	68	72	66	29.83	29.94	9.83	6	4	13
21			79	68	72	70	29.85	29.96	9.67	6	3	14
22			79	68	72	72	29.86	29.97	9.43	5	3	16
23			78	69	72	74	29.87	29.97	9.23	5	3	18
24			77	69	72	76	29.87	29.97	9.13	5	3	17

# HOUSTON, TX JUNE Temperatures



# HOUSTON, TX JUNE Precipitation





**JUNE 2006  
HOUSTON, TX**

**LOCAL CLIMATOLOGICAL DATA  
NOAA, National Climatic Data Center**

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