



# JUNE 2014 LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

**HOUSTON, TX**  
**G BUSH INTERCONTINENTAL AP/HOUSTON AP (KIAH)**  
 Lat:29° 58'N Long: 95° 21'W Elev (Ground) 95 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	1200 LST	2400 LST	2400 LST	AVERAGE STATION 15	AVERAGE SEA LEVEL 16	RESULTANT SPEED 17	RES DIR 18	AVERAGE SPEED 19	MAXIMUM					
																			3-SEC		2-MIN			
11	12	13	14	15	16	17	18	19	20	21	22	23	24											
01	88	71	80	1	72	74	0	15	RA	0		0.0	0.01	29.80	29.91	6.6	11	8.3	26	09	22	11	01	
02	89	72	81	1	72	75	0	16	RA BCFG	0		0.0	T	29.85	29.95	8.5	13	8.9	24	13	20	14	02	
03	88	73	81	1	72	75	0	16	RA	0		0.0	T	29.85	29.96	7.6	12	8.4	22	14	16	13	03	
04	90	71	81	1	71	74	0	16		0		0.0	0.00	29.77	29.89	5.9	16	6.4	21	16	17	14	04	
05	92	75	84	4	72	75	0	19		0		0.0	0.00	29.75	29.86	6.9	18	7.4	21	18	14	17	05	
06	92	73	83	3	72	75	0	18		0		0.0	0.00	29.82	29.92	5.8	16	6.3	18	15	15	15	06	
07	93	73	83	3	73	76	0	18		0		0.0	0.00	29.81	29.92	5.1	16	5.8	18	11	16	10	07	
08	92	77	85	5	73	76	0	20	RA	0		0.0	0.02	29.78	29.90	4.2	17	6.0	22	18	16	18	08	
09	87	72	80	0	73	75	0	15	TS TSRA RA BR	0		0.0	0.50	29.70	29.82	6.7	18	8.5	26	20	20	14	09	
10	87	71	79	-2	67	71	0	14	RA	0		0.0	0.01	29.72	29.84	6.6	27	7.2	23	25	17	29	10	
11	94	68*	81	0	69	73	0	16		0		0.0	0.00	29.75	29.86	3.3	17	4.3	16	18	13	13	11	
12	94*	74	84	3	74	76	0	19	TS TSRA RA	0		0.0	0.10	29.77	29.87	5.4	16	7.4	26	13	23	13	12	
13	92	77	85	4	73	76	0	20	RA BR	0		0.0	0.01	29.81	29.92	2.5	13	5.8	20	02	15	14	13	
14	91	71	81	0	72	75	0	16		0		0.0	0.00	29.80	29.92	7.5	14	8.2	24	14	21	14	14	
15	93	74	84	3	73	76	0	19		0		0.0	0.00	29.82	29.93	9.8	16	10.0	23	15	21	15	15	
16	92	77	85	4	73	76	0	20	RA BR HZ	0		0.0	T	29.91	30.01	11.1	16	11.4	30	13	24	14	16	
17	93	80	87*	5	73	76	0	22		0		0.0	0.00	29.90	30.01	10.8	17	11.0	25	14	21	15	17	
18	89	78	84	2	74	76	0	19	TSRA RA	0		0.0	0.22	29.90	30.01	7.7	16	8.7	25	14	21	13	18	
19	92	75	84	2	72	75	0	19		0		0.0	0.00	29.92	30.03	8.4	15	9.0	21	14	16	13	19	
20	92	74	83	1	71	75	0	18		0		0.0	0.00	29.93	30.04	4.4	15	5.5	24	17	17	18	20	
21	92	71	82	0	72	75	0	17	RA	0		0.0	T	29.86	29.99	2.9	18	3.8	25	16	22	16	21	
22	90	76	83	1	72	76	0	18	TS RA HZ	0		0.0	0.07	29.80	29.92	5.8	18	6.1	29	22	20	22	22	
23	92	73	83	1	73	76	0	18	TSRA RA BR	0		0.0	0.50	29.83	29.94	6.2	19	7.3	31	24	22	26	23	
24	92	74	83	1	73	75	0	18	TS TSRA RA BR	0		0.0	0.54	29.91	30.02	2.1	12	3.5	30	23	22	23	24	
25	83	73	78*	-4	72	74	0	13	RA	0		0.0	0.09	29.91	30.02	6.9	13	8.1	24	16	21	15	25	
26	86	73	80	-2	72	74	0	15	RA	0		0.0	T	29.86	29.98	5.4	15	6.9	22	17	20	13	26	
27	90	74	82	-1	74	76	0	17	RA	0		0.0	0.01	29.80	29.92	13.6	16	13.7	31*	16	25*	15	27	
28	90	79	85	2	76	78	0	20	RA BR	0		0.0	0.10	29.85	29.95	12.6	16	12.8	28	13	23	14	28	
29	93	79	86	3	75	78	0	21	BR	0		0.0	0.00	29.92	30.03	10.0	17	10.2	24	15	20	15	29	
30	93	78	86	3	73	77	0	21	BR	0		0.0	0.00	29.88	29.99	8.1	18	8.5	23	15	17	16	30	

90.7	74.2	82.5	☼	72.4	75.3	0.0	17.8	< MONTHLY AVERAGES   TOTALS >				0.0	2.18	29.83	29.94	6.3	16	7.8	< MONTHLY AVERAGES			
-0.7	0.9	0.1		-----DEPARTURE FROM NORMAL ----->								-3.75	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									

<b>DEGREE DAYS</b>				<b>GREATEST 24-HR PRECIPITATION :</b> 0.63 <b>DATE :</b> 24-25				<b>SEA LEVEL PRESSURE</b>			
<b>MONTHLY</b>				<b>GREATEST 24-HR SNOWFALL :</b> 0.0 <b>DATE :</b>				<b>MAXIMUM :</b> 30.09 <b>DATE</b> 20 <b>TIME</b> 0953			
<b>TOTAL DEPARTURE</b>				<b>GREATEST SNOW DEPTH :</b> 0 <b>DATE :</b>				<b>MINIMUM :</b> 29.78 <b>DATE</b> 10 <b>TIME</b> 0053			
<b>SEASON TO DATE</b>				<b>NUMBER OF -&gt; DAYS WITH</b>				<b>MAXIMUM TEMP &gt;= 90 :</b> 22			
<b>HEATING :</b> 0 0 1741 374				<b>MAXIMUM TEMP &lt;= 32 :</b> 0				<b>MINIMUM TEMP &lt;= 0 :</b> 0			
<b>COOLING :</b> 533 13 1074 -98				<b>THUNDERSTORMS :</b> 6				<b>HEAVY FOG :</b> 0			
								<b>PRECIPITATION &gt;= 0.01 INCH :</b> 13			
								<b>PRECIPITATION &gt;= 0.10 INCH :</b> 6			
								<b>SNOWFALL &gt;= 1.0 INCH :</b> 0			

**JUNE 2014  
HOUSTON, TX**

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX (KIAH)  
JUNE 2014

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													01	0.01	T										01	0.01	0.01	
02													02												02	T	T	
03													03			T									03	T	T	
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		0.02										08	0.02	0.02	
09													09		0.08	0.40	0.02								09	0.50	0.50	
10			0.01										10												10	0.01	0.01	
11													11												11	0.00	0.00	
12													12						0.08	0.02					12	0.10	0.10	
13		T	0.01	T									13												13	0.01	0.01	
14													14												14	0.00	0.00	
15													15												15	0.00	0.00	
16													16	T											16	T	T	
17													17												17	0.00	0.00	
18													18	0.22	T										18	0.22	0.22	
19													19												19	0.00	0.00	
20													20												20	0.00	0.00	
21													21			T									21	T	T	
22													22				T	T				T	T		22	0.07	0.07	
23		T	T										23	0.50	T	T									23	0.50	0.50	
24													24		0.21	0.26	0.06	0.01							24	0.54	0.54	
25				T	T		0.08	0.01					25			T	T		T						25	0.09	0.09	
26													26												26	T	T	
27													27							T					27	0.01	0.01	
28											0.01		28	0.02	0.01	0.07									28	0.10	0.10	
29													29												29	0.00	0.00	
30													30												30	0.00	0.00	

\* 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)	0.13	0.21	0.29	0.37	0.47	0.50	0.50	0.50	0.50	0.52	0.54	0.54
Ending Date	23	24	24	24	24	23	23	23	09	24	24	24
Ending Time (Hr/Min)	1211	1401	1405	1413	1416	1245	1245	1245	1526	1541	1607	1607

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.

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).

## 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	
VC In the Vicinity	UP Unkown Precipitation		GL Glaze

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

# HOUSTON, TX JUNE 2014

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet.

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.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

NORMALS ARE FOR THE YEARS 1981-2010

ADDITIONAL NOTES & ERRATA:

Date	VISIBILITY (MILES)	
	MINIMUM	MAXIMUM
01	8.00	10.00
02	8.00	10.00
03	10.00	10.00
04	10.00	10.00
05	10.00	10.00
06	10.00	10.00
07	10.00	10.00
08	10.00	10.00
09	3.00	10.00
10	10.00	10.00
11	10.00	10.00
12	10.00	10.00
13	0.25	10.00
14	10.00	10.00
15	10.00	10.00
16	6.00	10.00
17	10.00	10.00
18	10.00	10.00
19	10.00	10.00
20	10.00	10.00
21	10.00	10.00
22	6.00	10.00
23	5.00	10.00
24	6.00	10.00
25	8.00	10.00
26	10.00	10.00
27	9.00	10.00
28	8.00	10.00
29	5.00	10.00
30	6.00	10.00
<b>AVGS</b>	8.28	10.00
<b>MINIMUM VISIBILITY (MILES)</b>		
<= .25	<= 3.0	>= 7.0
1	2	22





# OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX  
JUNE 2014

KIAH

WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)						
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL					
SUNRISE: 0522      JUN 25      SUNSET: 1926					03	BKN	200	10.00		74	73	73	97	5	12	29.90	30.01
06	BKN	035	10.00		76	73	74	91	14	16	29.91	30.02					
09	BKN	250	10.00		79	72	74	79	8	07	29.96	30.07					
12	OVC	250	10.00		80	72	75	76	9	14	29.93	30.04					
15	OVC	250	10.00		78	74	75	87	7	12	29.93	30.03					
18	OVC	120	8.00		77	72	74	85	14	15	29.91	30.01					
21	OVC	250	10.00		75	71	72	88	0	00	29.90	30.01					
24	BKN	250	10.00		74	72	73	94	6	13	29.90	30.01					
SUNRISE: 0522      JUN 26      SUNSET: 1926					03	BKN	250	10.00		73	72	72	96	3	13	29.87	29.98
06	SCT	110	10.00		74	73	73	97	3	VR	29.91	30.02					
09	BKN	110	10.00		83	76	78	79	9	14	29.92	30.03					
12	OVC	250	10.00		80	73	75	79	7	31	29.90	30.01					
15	BKN	250	10.00		84	71	75	65	7	18	29.84	29.94					
18	OVC	250	10.00		78	71	73	79	11	16	29.85	29.96					
21	BKN	250	10.00		77	71	73	82	15	17	29.85	29.96					
24	SCT	250	10.00		75	71	72	88	0	00	29.82	29.93					
SUNRISE: 0523      JUN 27      SUNSET: 1926					03	OVC	100	10.00		77	71	73	82	7	17	29.81	29.91
06	BKN	250	10.00		78	73	75	85	9	16	29.82	29.93					
09	BKN	250	10.00		84	75	78	74	14	16	29.85	29.96					
12	BKN	120	10.00		87	74	78	65	20	15	29.82	29.92					
15	BKN	250	10.00		89	73	78	59	22	15	29.78	29.89					
18	BKN	250	10.00		83	72	75	70	22	15	29.79	29.89					
21	BKN	250	10.00		81	74	76	79	11	16	29.79	29.89					
24	BKN	250	10.00		81	75	77	82	13	17	29.82	29.92					
SUNRISE: 0523      JUN 28      SUNSET: 1926					03	BKN	250	10.00		80	74	76	82	13	16	29.82	29.92
06	SCT	250	8.00		79	75	76	88	6	18	29.84	29.94					
09	SCT	250	10.00		86	74	78	67	14	16	29.86	29.96					
12	SCT	029	10.00		83	77	79	82	23	14	29.86	29.96					
15	BKN	120	8.00		81	79	80	94	11	15	29.85	29.96					
18	BKN	120	10.00		85	78	80	80	17	16	29.82	29.93					
21	OVC	033	10.00		83	77	79	82	13	17	29.87	29.97					
24	BKN	250	9.00		82	76	78	82	10	17	29.91	30.01					
SUNRISE: 0523      JUN 29      SUNSET: 1926					03	BKN	100	9.00	BR	80	76	77	87	9	17	29.90	30.01
06	SCT	250	5.00	BR	79	75	76	88	6	17	29.92	30.02					
09	BKN	026	8.00	BR	84	75	78	74	11	18	29.96	30.06					
12	SCT	047	9.00		90	72	77	56	9	19	29.96	30.07					
15	BKN	250	10.00		91	74	79	57	16	17	29.94	30.04					
18	BKN	250	10.00		88	75	79	66	13	16	29.89	30.00					
21	BKN	250	10.00		83	75	77	77	10	17	29.91	30.02					
24	BKN	250	10.00		81	76	77	85	11	18	29.93	30.03					
SUNRISE: 0524      JUN 30      SUNSET: 1926					03	BKN	250	9.00	BR	79	76	77	90	6	17	29.90	30.01
06	SCT	250	6.00	BR	78	75	76	90	3	17	29.93	30.03					
09	FEW	022	7.00		85	74	77	70	8	20	29.94	30.04					
12	FEW	047	8.00		91	71	77	52	9	22	29.92	30.02					
15	SCT	048	10.00		92	71	77	51	10	18	29.86	29.97					
18	FEW	040	10.00		88	71	76	57	11	17	29.84	29.95					
21	FEW	035	8.00		82	73	76	74	11	17	29.85	29.95					
24	FEW	019	10.00		79	74	76	85	7	17	29.84	29.94					

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	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.

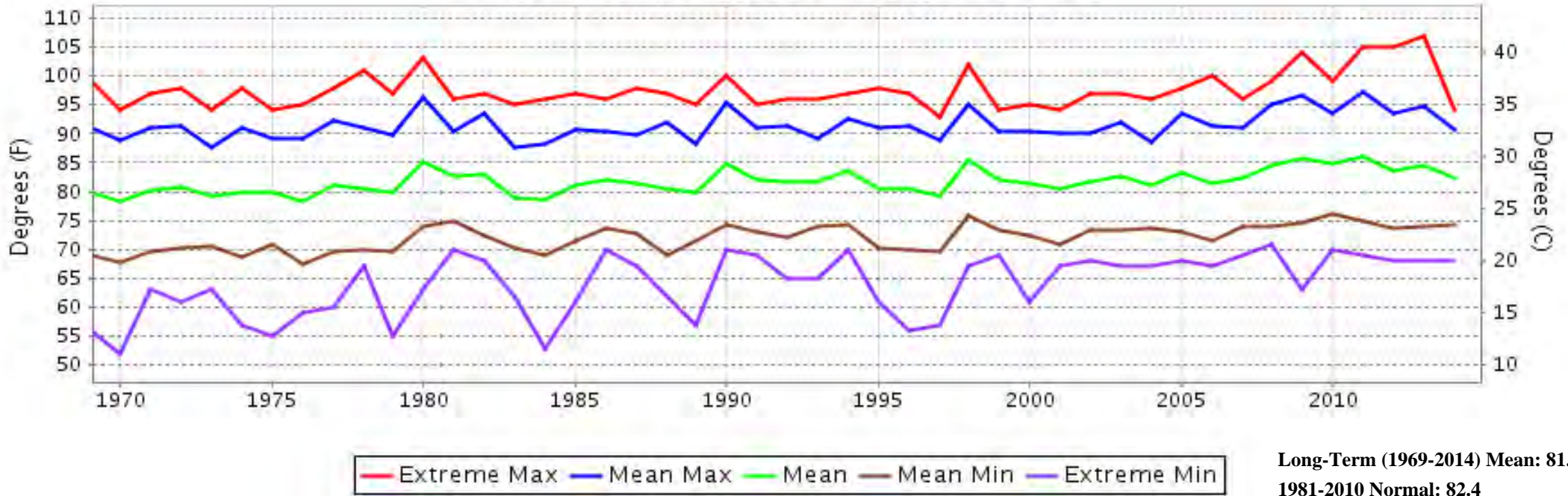
& = Original observation contained additional weather elements.

See page 3 for additional notes.

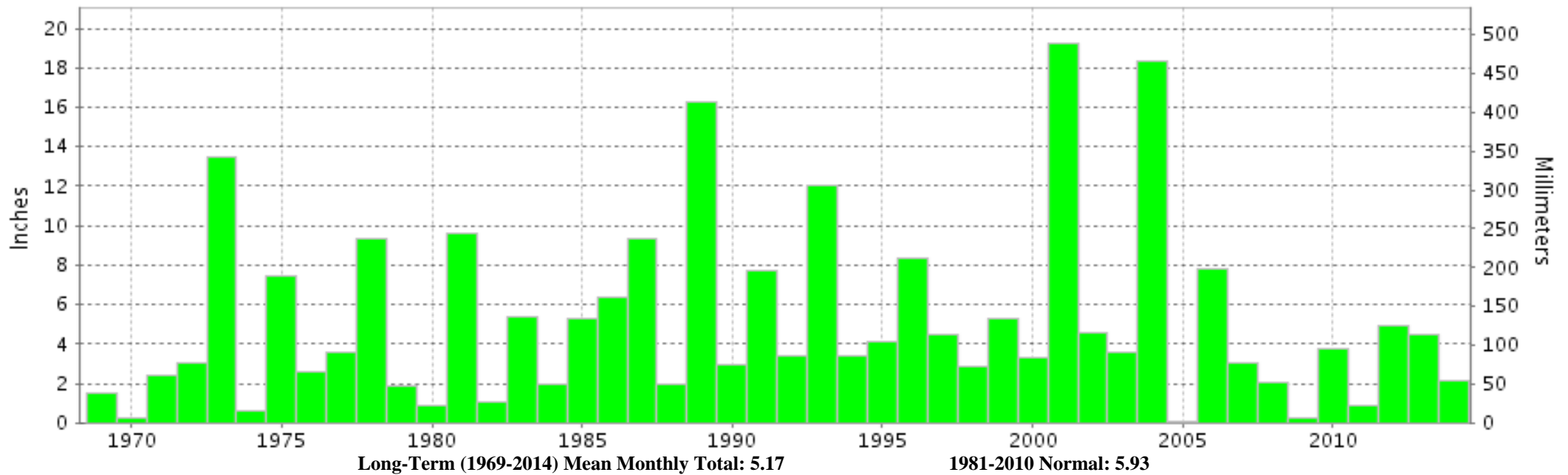
## SUMMARY BY HOUR

HOUR (LST)	AVERAGES							RESULTANT WIND (MPH)		
	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
					STATION	SEA LEVEL				
01	77	73	75	87	29.83	29.93	9.86	6	6	17
02	77	73	74	89	29.83	29.93	9.90	5	6	17
03	77	73	74	89	29.83	29.93	9.90	5	7	17
04	76	73	74	91	29.83	29.93	9.87	4	7	17
05	76	73	74	91	29.83	29.94	9.83	4	7	17
06	76	73	74	91	29.85	29.95	8.98	5	6	17
07	79	74	75	86	29.86	29.97	9.08	6	6	16
08	81	74	76	78	29.87	29.98	9.67	8	6	16
09	84	73	76	71	29.88	29.98	9.77	8	5	17
10	85	72	76	65	29.87	29.98	9.83	9	6	16
11	87	72	76	62	29.87	29.98	9.83	8	6	16
12	87	71	76	60	29.86	29.97	9.90	8	6	18
13	87	71	76	60	29.85	29.96	9.67	9	6	16
14	87	71	76	61	29.84	29.95	9.57	10	6	15
15	87	71	76	62	29.83	29.93	9.67	10	6	14
16	86	72	76	64	29.82	29.92	9.90	11	7	13
17	86	72	76	64	29.80	29.91	9.87	12	8	13
18	85	72	76	65	29.80	29.91	9.93	12	7	13
19	83	72	75	70	29.81	29.92	9.87	10	7	14
20	81	72	75	75	29.81	29.92	9.83	9	6	14
21	80	72	75	78	29.82	29.93	9.87	8	6	15
22	79	73	75	81	29.84	29.95	9.87	7	5	17
23	79	73	75	83	29.84	29.95	9.90	7	5	17
24	78	73	75	85	29.84	29.95	9.93	5	5	17

## HOUSTON, TX JUNE Temperatures



## HOUSTON, TX JUNE Precipitation







**JUNE 2014  
HOUSTON, TX**

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

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A handwritten signature in black ink, appearing to read "Thomas R. Karl".

**DIRECTOR**

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