



# JUNE 2013 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 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					
																			3-SEC		2-MIN			
01	95	79	87	8	73	77	0	22		0		0.0	0.00	29.75	29.86	10.5	17	10.4	28	15	21	15	01	
02	86	69	78*	-2	70	72	0	13	TS TSRA RA BR	0		0.0	1.32	29.83	29.94	2.1	36	6.4	38	34	30	34	02	
03	92	68	80	0	65	70	0	15		0		0.0	0.00	29.78	29.90	2.6	07	4.2	17	04	14	10	03	
04	92	69	81	1	69	73	0	16		0		0.0	0.00	29.76	29.88	3.2	13	4.4	22	11	15	14	04	
05	94	71	83	3	72	75	0	18	BCFG	0		0.0	0.00	29.72	29.84	3.0	14	4.6	22	16	18	16	05	
06	95	72	84	4	72	74	0	19	TS TSRA RA BR	0		0.0	0.31	29.72	29.82	1.2	31	6.3	32	33	26	01	06	
07	88	69	79	-1	65	69	0	14		0		0.0	0.00	29.79	29.89	5.3	35	6.1	18	36	15	36	07	
08	92	68*	80	0	67	70	0	15		0		0.0	0.00	29.77	29.89	3.2	15	4.3	41*	16	35*	16	08	
09	90	71	81	1	71	72	0	16	TS TSRA RA SQ	0		0.0	1.85	29.83	29.91	1.6	16	3.6	37	31	25	29	09	
10	93	70	82	1	72	75	0	17	TS	0		0.0	0.00	29.85	29.96	4.2	15	4.6	25	15	21	15	10	
11	91	74	83	2	75	77	0	18	RA	0		0.0	T	29.90	30.01	4.4	16	4.9	25	14	20	14	11	
12	93	74	84	3	75	77	0	19		0		0.0	0.00	29.91	30.02	6.5	17	6.8	18	15	14	16	12	
13	96	74	85	4	75	78	0	20		0		0.0	0.00	29.87	29.99	2.2	19	3.0	20	14	16	15	13	
14	95	78	87	6	74	78	0	22		0		0.0	0.00	29.82	29.94	1.8	18	2.8	17	12	13	12	14	
15	94	77	86	5	73	77	0	21		0		0.0	0.00	29.83	29.95	3.9	19	4.6	14	16	10	16	15	
16	96	75	86	5	73	77	0	21		0		0.0	0.00	29.86	29.97	5.8	18	6.8	22	14	18	14	16	
17	96	78	87	5	73	77	0	22		0		0.0	0.00	29.83	29.94	5.8	19	6.9	24	15	21	14	17	
18	96	75	86	4	73	76	0	21	TS	0		0.0	0.00	29.83	29.94	2.6	22	7.9	26	07	21	36	18	
19	96	73	85	3	73	76	0	20	TSRA RA BR	0		0.0	0.98	29.85	29.96	4.0	17	5.4	23	15	20	15	19	
20	93	74	84	2	74	77	0	19	TS	0		0.0	0.00	29.92	30.02	5.1	15	6.7	26	11	23	11	20	
21	94	74	84	2	72	76	0	19		0		0.0	0.00	29.93	30.05	5.2	17	6.2	24	15	18	14	21	
22	94	74	84	2	72	76	0	19		0		0.0	0.00	29.89	30.01	6.3	16	7.0	22	15	18	15	22	
23	95	74	85	3	72	76	0	20		0		0.0	0.00	29.87	29.98	7.5	17	7.6	23	15	17	16	23	
24	96	75	86	4	73	76	0	21		0		0.0	0.00	29.90	30.01	9.3	17	9.5	29	16	22	15	24	
25	97	80	89	7	73	77	0	24		0		0.0	0.00	29.86	29.99	9.5	17	10.0	28	15	22	15	25	
26	98	79	89	7	72	77	0	24		0		0.0	0.00	29.85	29.96	7.0	18	8.0	22	13	17	16	26	
27	98	75	87	4	71	76	0	22		0		0.0	0.00	29.86	29.97	4.5	18	6.0	25	10	17	15	27	
28	100	78	89	6	71	76	0	24		0		0.0	0.00	29.77	29.89	4.5	22	6.3	18	28	14	15	28	
29	107*	80	94*	11	68	75	0	29		0		0.0	0.00	29.67	29.79	3.7	31	8.1	22	01	18	03	29	
30	98	74	86	3	59	69	0	21		0		0.0	0.00	29.71	29.82	5.1	34	7.0	25	31	18	32	30	

94.7	74.0	84.4	☼	71.2	75.0	0.0	19.7	< MONTHLY AVERAGES   TOTALS >				0.0	4.46	29.82	29.94	3.3	17	6.2	< MONTHLY AVERAGES			
3.3	0.7	2.0		-----DEPARTURE FROM NORMAL ----->										-1.47	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3							

<b>DEGREE DAYS</b>				GREATEST 24-HR PRECIPITATION : 1.85 DATE : 09				SEA LEVEL PRESSURE			
MONTHLY				GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.10 21 1138			
TOTAL DEPARTURE				GREATEST SNOW DEPTH : 0 DATE :				MINIMUM : 29.70 29 1837			
SEASON TO DATE				NUMBER OF -> DAYS WITH				PRECIPITATION >= 0.01 INCH: 4			
TOTAL DEPARTURE				THUNDERSTORMS : 7				PRECIPITATION >= 0.10 INCH: 4			
HEATING : 0 0 1187 -180				MAXIMUM TEMP >= 90 : 28				PRECIPITATION >= 1.0 INCH : 0			
COOLING : 591 71 1161 -11				MAXIMUM TEMP <= 32 : 0				MINIMUM TEMP <= 0 : 0			
				MINIMUM TEMP <= 0 : 0				HEAVY FOG : 0			

**JUNE 2013  
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# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX (KIAH)  
JUNE 2013

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												01	0.00	0.00	
02						0.68	0.34	0.14	0.15	0.01	T		02												02	1.32	1.32	
03													03												03	0.00	0.00	
04													04												04	0.00	0.00	
05													05												05	0.00	0.00	
06													06					0.15	0.16						06	0.31	0.31	
07													07												07	0.00	0.00	
08													08												08	0.00	0.00	
09												0.91	09	0.88	0.05	0.01	T								09	1.85	1.85	
10													10												10	0.00	0.00	
11													11			T	T								11	T	T	
12													12												12	0.00	0.00	
13													13												13	0.00	0.00	
14													14												14	0.00	0.00	
15													15												15	0.00	0.00	
16													16												16	0.00	0.00	
17													17												17	0.00	0.00	
18													18												18	0.00	0.00	
19													19												19	0.98	0.98	
20													20					0.03	0.95						20	0.00	0.00	
21													21												21	0.00	0.00	
22													22												22	0.00	0.00	
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												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)	0.42	0.71	0.93	1.11	1.55	1.77	1.79	1.79	1.81	1.83	1.85	1.85
Ending Date	09	09	09	09	09	09	09	09	09	09	09	09
Ending Time (Hr/Min)	1153	1157	1202	1205	1217	1228	1231	1231	1314	1335	1408	1408

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 2013

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:

Beginning with the January 2013 LCD, monthly mean temperature calculations have changed to the National Data Stewardship Team standard. Monthly maximum and minimum temperature are not rounded until after monthly mean temperature is calculated. This is the most accurate outcome, but may be slightly different from the mean derived from rounded monthly maximum and minimum.

Beginning in Jun 2013 Monthly Max & Min SLP is being calculated from hourly data received and Not from Monthly Summary Message from ASOS.

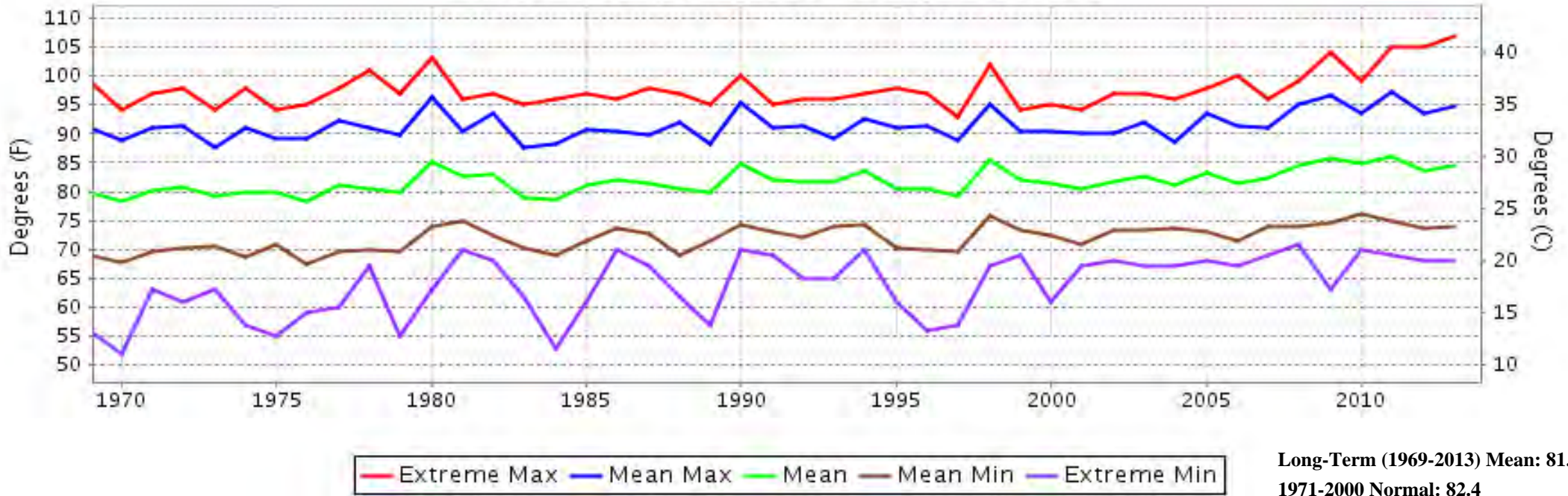
Date	VISIBILITY (MILES)	
	MINIMUM	MAXIMUM
01	10.00	10.00
02	2.50	10.00
03	9.00	10.00
04	9.00	10.00
05	10.00	10.00
06	3.00	10.00
07	10.00	10.00
08	10.00	10.00
09	2.00	10.00
10	10.00	10.00
11	7.00	10.00
12	8.00	10.00
13	10.00	10.00
14	9.00	10.00
15	10.00	10.00
16	10.00	10.00
17	10.00	10.00
18	10.00	10.00
19	9.00	10.00
20	10.00	10.00
21	8.00	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	10.00	10.00
30	10.00	10.00
<b>AVGS</b>	8.88	10.00
<b>MINIMUM VISIBILITY (MILES)</b>		
<= .25	<= 3.0	>= 7.0
0	3	27



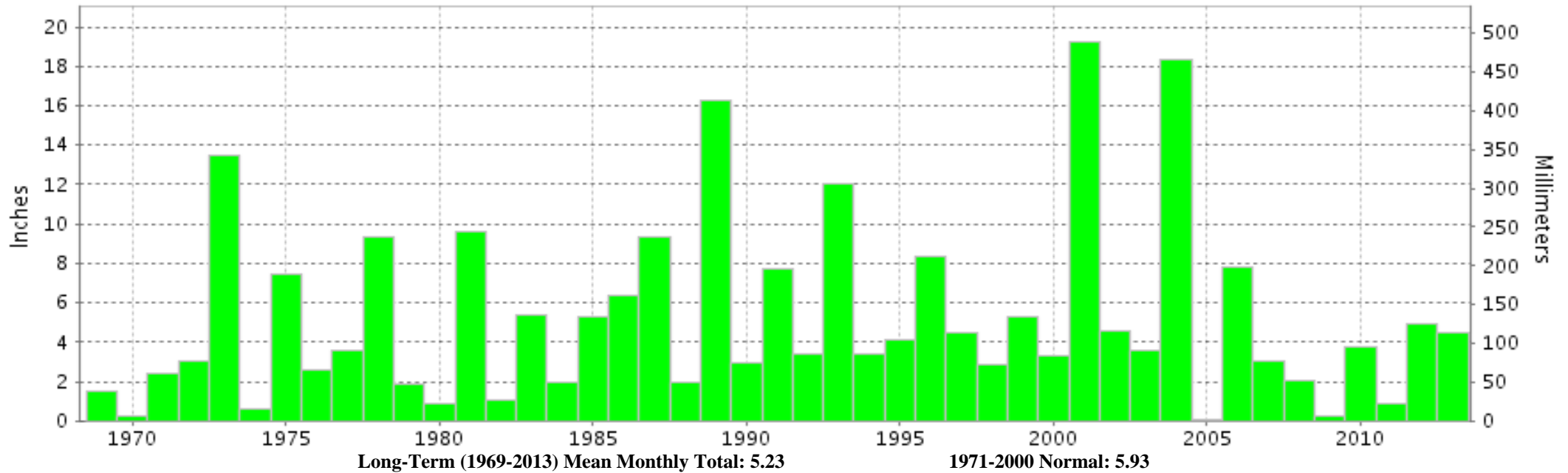




## HOUSTON, TX JUNE Temperatures



## HOUSTON, TX JUNE Precipitation





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*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.*

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

**DIRECTOR**

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