



# JULY 2016 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



**JULY 2016  
HOUSTON, TX**

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			
									DEPTH 11	WATER- EQUIV 12	SNOW- FALL 13	WATER EQUIV 14					SPEED 20	DIR 21	SPEED 22	DIR 23				
01	94	76	85	2	74	77	0	20	BR	0		0.0	0.00	29.88	29.99	4.7	13	5.9	18	14	14	15	01	
02	96	76	86	3	73	77	0	21		0		0.0	0.00	29.89	30.00	5.3	19	5.6	17	17	12	19	02	
03	97	80	89	6	74	78	0	24		0		0.0	0.00	29.85	29.96	9.1	18	9.2	25	18	18	17	03	
04	97	82	90	7	75	79	0	25		0		0.0	0.00	29.85	29.97	9.1	18	9.6	25	23	18	17	04	
05	97	83	90	7	75	79	0	25		0		0.0	0.00	29.89	30.00	8.7	18	9.0	21	17	16	17	05	
06	96	82	89	6	74	78	0	24		0		0.0	0.00	29.88	30.00	9.8	18	10.0	25	16	21	16	06	
07	97	81	89	6	75	79	0	24		0		0.0	0.00	29.86	29.97	9.5	17	9.8	25	15	21	16	07	
08	98	78	88	5	74	78	0	23		0		0.0	0.00	29.90	30.00	7.5	18	7.8	24	16	18	17	08	
09	98	77	88	5	75	78	0	23	RA	0		0.0	0.28	29.91	30.01	6.0	17	7.0	21	12	16	12	09	
10	96	80	88	5	73	77	0	23	RA	0		0.0	T	29.85	29.97	7.7	18	8.0	23	22	17	23	10	
11	97	81	89	6	73	77	0	24		0		0.0	0.00	29.85	29.96	10.8	17	11.0	29	14	22	14	11	
12	97	80	89	6	74	78	0	24		0		0.0	0.00	29.86	29.97	9.3	17	9.5	25	16	20	15	12	
13	98	81	90*	7	74	78	0	25		0		0.0	0.00	29.91	30.02	8.9	18	9.0	25	15	21	16	13	
14	98	79	89	6	73	78	0	24		0		0.0	0.00	29.89	30.01	7.0	18	7.7	21	20	16	16	14	
15	99	77	88	4	73	77	0	23	BR	0		0.0	0.00	29.88	29.99	5.9	17	7.2	25	13	22	14	15	
16	96	77	87	3	72	76	0	22		0		0.0	0.00	29.90	30.00	5.6	17	6.2	24	11	17	14	16	
17	96	76	86	2	73	77	0	21	TS RA	0		0.0	T	29.94	30.05	4.3	15	5.4	29	16	20	18	17	
18	97	76	87	3	75	78	0	22	TS RA	0		0.0	0.24	30.01	30.11	2.1	12	3.5	22	18	16	18	18	
19	93	77	85	1	76	78	0	20	TS TSRA RA	0		0.0	0.22	30.02	30.13	3.5	09	5.2	21	19	16	11	19	
20	97	76	87	3	74	77	0	22	TS TSRA RA	0		0.0	0.01	30.01	30.12	2.9	16	3.7	23	14	18	15	20	
21	98	75	87	3	72	76	0	22		0		0.0	0.00	29.97	30.09	2.2	15	3.9	18	14	16	14	21	
22	99	76	88	4	73	77	0	23		0		0.0	0.00	29.91	30.03	2.2	15	3.5	18	15	15	15	22	
23	100	77	89	5	74	78	0	24		0		0.0	0.00	29.83	29.95	4.2	18	5.5	20	14	16	15	23	
24	100*	78	89	5	74	78	0	24		0		0.0	0.00	29.82	29.93	3.5	17	5.3	24	13	18	14	24	
25	98	77	88	4	74	77	0	23	TS TSRA RA	0		0.0	T	29.81	29.92	1.7	14	5.5	31	14	28*	14	25	
26	92	77	85	1	75	77	0	20	TS RA BR	0		0.0	T	29.80	29.92	2.1	18	5.0	20	22	15	22	26	
27	85	73*	79*	-5	75	76	0	14	TS TSRA RA BR	0		0.0	0.22	29.85	29.96	3.4	13	4.3	15	13	12	13	27	
28	91	76	84	0	76	77	0	19	TS TSRA RA BR	0		0.0	0.12	29.88	29.98	1.7	19	2.8	30	15	24	15	28	
29	96	75	86	2	74	77	0	21	RA MIFG	0		0.0	T	29.88	29.99	2.3	16	4.4	20	07	17	15	29	
30	98	76	87	3	74	77	0	22	TS	0		0.0	0.00	29.88	29.99	2.8	20	4.3	32*	14	26	14	30	
31	96	77	87	3	75	78	0	22	TS TSRA RA	0		0.0	T	29.89	30.00	5.1	18	5.6	20	14	17	13	31	
96.4		77.8	87.1	☼	74.0	77.5	0.0	22.4	< MONTHLY AVERAGES   TOTALS >		0.0	1.09	29.89	30.00	5.2	17	6.5	< MONTHLY AVERAGES						
2.7	2.7	2.7	<-----DEPARTURE FROM NORMAL ----->							-2.70	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3													
<b>DEGREE DAYS</b>									GREATEST 24-HR PRECIPITATION : 0.46 DATE : 18-19				SEA LEVEL PRESSURE				DATE		TIME					
MONTHLY				SEASON TO DATE					GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM :				20		1053					
TOTAL DEPARTURE				TOTAL DEPARTURE					GREATEST SNOW DEPTH : 0 DATE :				MINIMUM :				26		1653					
HEATING :		0		0		0		0		NUMBER OF		MAXIMUM TEMP >= 90 : 30		MINIMUM TEMP <= 32 : 0		PRECIPITATION >= 0.01 INCH:		6						
COOLING :		693		92		1794		21		->		MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH:		5						
										THUNDERSTORMS		: 10		HEAVY FOG		: 0		SNOWFALL >= 1.0 INCH		: 0				

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX (KIAH)  
JULY 2016

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													02												02	0.00	0.00	
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													09				T	0.28		T					09	0.28	0.28	
10													10												10	T	T	
11													11												11	0.00	0.00	
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				T			T					17	T	T	
18													18				0.19	T	0.05	T					18	0.24	0.24	
19													19												19	0.22	0.22	
20													20												20	0.01	0.01	
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				T								25	T	T	
26													26				T								26	T	T	
27													27				T								27	0.22	0.22	
28													28				0.01	0.03	T		T				28	0.12	0.12	
29													29				T								29	T	T	
30													30												30	0.00	0.00	
31													31												31	T	T	

\* 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)												
Ending Date												
Ending Time (Hr/Min)												

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	GL Glaze
VC In the Vicinity	UP Unkown Precipitation		

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

# HOUSTON, TX JULY 2016

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	6.00	10.00
02	10.00	10.00
03	10.00	10.00
04	9.00	10.00
05	8.00	10.00
06	9.00	10.00
07	10.00	10.00
08	10.00	10.00
09	10.00	10.00
10	8.00	10.00
11	8.00	10.00
12	9.00	10.00
13	10.00	10.00
14	10.00	10.00
15	6.00	10.00
16	9.00	10.00
17	10.00	10.00
18	5.00	10.00
19	7.00	10.00
20	10.00	10.00
21	10.00	10.00
22	10.00	10.00
23	10.00	10.00
24	10.00	10.00
25	10.00	10.00
26	0.25	10.00
27	5.00	10.00
28	5.00	10.00
29	8.00	10.00
30	9.00	10.00
31	10.00	10.00
<b>AVGS</b>	8.43	10.00
<b>MINIMUM VISIBILITY (MILES)</b>		
<= .25	<= 3.0	>= 7.0
1	1	25

# OBSERVATIONS AT 3-HOURLY INTERVALS

**HOUSTON, TX**  
**JULY 2016**

**KIAH**

**WBAN # 12960**

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		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						DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL				
<b>SUNRISE: 0524</b>					<b>JUL 01</b>					<b>SUNSET: 1927</b>					<b>SUNRISE: 0527</b>					<b>JUL 07</b>					<b>SUNSET: 1926</b>				
03	SCT	250	10.00	BR	76	74	75	94	0	00	29.85	29.96	03	FEW	023	10.00		81	77	78	88	7	17	29.86	29.96				
06	SCT	250	6.00		78	75	76	90	0	00	29.89	29.99	06	SCT	250	10.00		81	77	78	88	6	18	29.86	29.97				
09	SCT	250	10.00		87	75	78	67	3	22	29.93	30.03	09	BKN	250	10.00		88	76	79	68	10	20	29.90	30.00				
12	BKN	250	10.00		89	74	78	61	8	14	29.93	30.03	12	SCT	250	10.00		94	72	78	49	7	20	29.90	30.00				
15	SCT	250	10.00		94	73	79	51	11	12	29.86	29.97	15	SCT	250	10.00		97	72	79	45	14	17	29.86	29.97				
18	SCT	250	10.00		90	73	78	58	11	15	29.85	29.96	18	SCT	250	10.00		91	73	78	56	13	17	29.84	29.95				
21	SCT	250	10.00		83	74	77	74	10	14	29.88	29.99	21	SCT	250	10.00		85	75	78	72	9	17	29.86	29.96				
24	CLR	NC	10.00	81	74	76	79	5	18	29.91	30.01	24	SCT	250	10.00	82	76	78	82	7	19	29.87	29.98						
<b>SUNRISE: 0524</b>					<b>JUL 02</b>					<b>SUNSET: 1927</b>					<b>SUNRISE: 0527</b>					<b>JUL 08</b>					<b>SUNSET: 1926</b>				
03	FEW	250	10.00		77	74	75	90	3	19	29.89	29.99	03	SCT	250	10.00		81	75	77	82	5	18	29.86	29.97				
06	SCT	250	10.00		76	74	75	94	0	00	29.92	30.03	06	SCT	250	10.00		81	77	78	88	5	18	29.89	30.00				
09	SCT	250	10.00		86	74	78	67	9	23	29.94	30.05	09	SCT	026	10.00		89	76	80	65	9	18	29.94	30.04				
12	SCT	250	10.00		93	72	78	50	9	17	29.93	30.03	12	SCT	250	10.00		94	72	78	49	5	20	29.94	30.04				
15	BKN	250	10.00		95	72	79	47	8	20	29.86	29.97	15	SCT	060	10.00		95	70	77	44	8	18	29.88	29.98				
18	SCT	250	10.00		93	71	78	49	6	20	29.83	29.94	18	SCT	250	10.00		91	70	76	50	15	17	29.87	29.97				
21	FEW	250	10.00		85	75	78	72	8	18	29.85	29.96	21	FEW	025	10.00		84	74	77	72	10	18	29.87	29.97				
24	FEW	250	10.00	82	75	77	79	7	19	29.91	30.01	24	FEW	025	10.00	82	75	77	79	3	19	29.94	30.04						
<b>SUNRISE: 0525</b>					<b>JUL 03</b>					<b>SUNSET: 1926</b>					<b>SUNRISE: 0527</b>					<b>JUL 09</b>					<b>SUNSET: 1926</b>				
03	FEW	250	10.00		81	75	77	82	7	19	29.85	29.96	03	FEW	250	10.00		80	76	77	87	3	19	29.91	30.01				
06	SCT	250	10.00		81	75	77	82	5	19	29.88	29.98	06	SCT	250	10.00		77	75	76	94	0	00	29.95	30.06				
09	SCT	250	10.00		89	75	79	63	13	19	29.90	30.00	09	BKN	250	10.00		86	76	79	72	9	22	29.96	30.06				
12	SCT	250	10.00		94	73	79	51	8	20	29.88	29.98	12	SCT	250	10.00		94	72	78	49	7	VR	29.94	30.05				
15	SCT	050	10.00		94	72	78	49	9	21	29.83	29.93	15	SCT	090	10.00		96	76	81	52	11	15	29.88	29.98				
18	SCT	045	10.00		91	73	78	56	11	19	29.80	29.91	18	SCT	250	10.00		91	74	79	57	11	18	29.84	29.95				
21	FEW	025	10.00		85	75	78	72	11	17	29.81	29.92	21	SCT	250	10.00		85	75	78	72	9	17	29.90	30.00				
24	FEW	025	10.00	83	76	78	79	6	18	29.87	29.98	24	SCT	250	10.00	82	76	78	82	3	20	29.92	30.02						
<b>SUNRISE: 0525</b>					<b>JUL 04</b>					<b>SUNSET: 1926</b>					<b>SUNRISE: 0528</b>					<b>JUL 10</b>					<b>SUNSET: 1926</b>				
03	FEW	250	10.00		83	76	78	79	8	19	29.84	29.95	03	BKN	200	10.00		81	76	77	85	7	18	29.86	29.96				
06	SCT	250	10.00		82	77	78	85	5	19	29.86	29.96	06	BKN	200	10.00		81	77	78	88	3	16	29.89	30.00				
09	SCT	026	10.00		88	76	79	68	9	20	29.89	29.99	09	BKN	090	9.00		86	78	80	77	8	19	29.91	30.01				
12	SCT	250	10.00		94	73	79	51	14	18	29.90	30.01	12	BKN	250	10.00		92	72	78	52	8	23	29.91	30.01				
15	BKN	250	10.00		94	74	80	52	11	17	29.85	29.96	15	BKN	250	10.00		94	70	77	46	13	21	29.84	29.94				
18	BKN	250	10.00		91	73	78	56	11	18	29.82	29.93	18	SCT	250	10.00		92	66	74	43	10	19	29.80	29.91				
21	SCT	250	10.00		85	73	77	68	9	17	29.84	29.95	21	SCT	250	10.00		85	73	77	68	9	17	29.83	29.93				
24	SCT	250	9.00	83	77	79	82	10	17	29.86	29.97	24	SCT	250	10.00	83	76	78	79	8	17	29.86	29.96						
<b>SUNRISE: 0526</b>					<b>JUL 05</b>					<b>SUNSET: 1926</b>					<b>SUNRISE: 0528</b>					<b>JUL 11</b>					<b>SUNSET: 1925</b>				
03	BKN	250	10.00		83	77	79	82	6	20	29.88	29.98	03	SCT	250	10.00		82	76	78	82	8	18	29.85	29.95				
06	BKN	250	8.00		83	77	79	82	3	22	29.92	30.02	06	SCT	250	8.00		82	76	78	82	7	17	29.86	29.97				
09	BKN	250	10.00		88	77	80	70	9	20	29.91	30.02	09	SCT	250	10.00		88	75	79	66	9	19	29.88	29.98				
12	BKN	250	10.00		94	73	79	51	10	17	29.92	30.03	12	SCT	250	10.00		95	67	76	40	9	19	29.87	29.97				
15	BKN	250	10.00		96	71	78	44	8	19	29.89	29.99	15	FEW	060	10.00		94	70	77	46	21	15	29.82	29.93				
18	BKN	250	10.00		91	72	78	54	10	17	29.86	29.96	18	FEW	047	10.00		90	70	76	52	14	17	29.82	29.92				
21	SCT	250	10.00		85	76	79	75	9	17	29.88	29.98	21	CLR	NC	10.00		84	72	76	67	10	17	29.84	29.94				
24	SCT	250	10.00	83	77	79	82	6	18	29.90	30.00	24	SCT	250	10.00	83	75	77	77	7	17	29.86	29.97						
<b>SUNRISE: 0526</b>					<b>JUL 06</b>					<b>SUNSET: 1926</b>					<b>SUNRISE: 0529</b>					<b>JUL 12</b>					<b>SUNSET: 1925</b>				
03	SCT	250	10.00		83	77	79	82	10	18	29.88	29.99	03	FEW	022	10.00		81	76	77	85	5	18	29.84	29.94				
06	SCT	250	10.00		82	76	78	82	6	19	29.91	30.02	06	SCT	250	9.00		81	76	77	85	3	17	29.84	29.95				
09	SCT	250	10.00		88	75	79	66	14	19	29.94	30.04	09	SCT	026	10.00		88	75	79	66	10	17	29.91	30.01				
12	SCT	250	10.00		94	69	77	44	15	19	29.93	30.03	12	SCT	044	10.00		93	73	79	52	11	16	29.89	30.00				
15	SCT	250	10.00		95	71	78	46	15	17	29.88	29.98	15	SCT	055	10.00		96	70	78	43	11	17	29.85	29.96				
18	SCT	250	10.00		90	72	77	56	14	16	29.84	29.95	18	FEW	045	10.00		92	73	78	54	16	16	29.84	29.95				
21	FEW	030	10.00		85	74	77	70	10	17	29.87	29.97	21	FEW	030	10.00		85	74	77	70	11	17	29.88	29.98				
24	FEW	020	10.00	83	76	78	79	7	18	29.89	30.00	24	FEW	020	10.00	83	77	79	82	7	17	29.90	30.01						

# OBSERVATIONS AT 3-HOURLY INTERVALS

**HOUSTON, TX**  
**JULY 2016**

**KIAH**

**WBAN # 12960**

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)	
					DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL						DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
<b>SUNRISE: 0529 JUL 13</b>					<b>SUNSET: 1925</b>					<b>SUNRISE: 0533 JUL 19</b>					<b>SUNSET: 1923</b>										
03	FEW	020	10.00		82	76	78	82	6	18	29.89	30.00	03	BKN	250	10.00		78	76	77	93	0	00	30.00	30.10
06	FEW	018	10.00		82	77	78	85	5	17	29.91	30.01	06	SCT	250	10.00		79	77	78	94	3	01	30.03	30.14
09	BKN	030	10.00		90	77	81	66	9	19	29.96	30.07	09	SCT	250	10.00		87	76	79	70	5	06	30.06	30.18
12	BKN	050	10.00		96	73	79	47	8	17	29.95	30.06	12	OVC	250	7.00	TS+RA	81	74	76	79	9	20	30.06	30.18
15	SCT	050	10.00		96	72	79	46	14	17	29.89	30.00	15	BKN	250	10.00		85	75	78	72	11	11	30.01	30.12
18	SCT	250	10.00		93	72	78	50	13	18	29.87	29.97	18	BKN	190	10.00		85	75	78	72	9	08	29.98	30.08
21	CLR	NC	10.00		86	73	77	65	13	17	29.90	30.01	21	BKN	250	10.00		80	76	77	87	7	13	30.01	30.11
24	FEW	020	10.00		82	76	78	82	10	18	29.92	30.03	24	SCT	250	10.00		78	76	77	93	3	12	30.03	30.14
<b>SUNRISE: 0530 JUL 14</b>					<b>SUNSET: 1925</b>					<b>SUNRISE: 0533 JUL 20</b>					<b>SUNSET: 1922</b>										
03	FEW	020	10.00		81	76	77	85	6	19	29.90	30.01	03	SCT	250	10.00		77	75	76	94	0	00	30.01	30.12
06	SCT	250	10.00		81	77	78	88	0	00	29.91	30.02	06	SCT	250	10.00		76	75	75	97	3	01	30.03	30.14
09	BKN	250	10.00		87	74	78	65	8	22	29.95	30.06	09	SCT	250	10.00		88	76	79	68	0	00	30.06	30.18
12	BKN	250	10.00		95	72	79	47	7	24	29.93	30.03	12	SCT	250	10.00		91	72	78	54	5	15	30.06	30.17
15	SCT	250	10.00		97	68	77	39	8	19	29.86	29.96	15	SCT	250	10.00		97	71	79	43	0	00	29.98	30.09
18	SCT	250	10.00		93	71	78	49	10	18	29.85	29.96	18	SCT	250	10.00		92	71	77	51	11	14	29.97	30.07
21	FEW	250	10.00		86	73	77	65	9	17	29.89	29.99	21	SCT	250	10.00		85	72	76	65	6	17	29.98	30.10
24	SCT	250	10.00		82	75	77	79	6	19	29.90	30.01	24	BKN	250	10.00		83	76	78	79	0	00	30.00	30.11
<b>SUNRISE: 0531 JUL 15</b>					<b>SUNSET: 1924</b>					<b>SUNRISE: 0534 JUL 21</b>					<b>SUNSET: 1922</b>										
03	SCT	250	10.00		81	76	77	85	5	19	29.89	29.99	03	BKN	250	10.00		78	75	76	90	0	00	29.97	30.08
06	BKN	250	6.00	BR	78	75	76	90	0	00	29.94	30.04	06	SCT	250	10.00		76	74	75	94	0	00	30.00	30.10
09	SCT	250	10.00		88	74	78	63	10	18	29.94	30.04	09	SCT	250	10.00		86	75	78	70	5	VR	30.03	30.15
12	SCT	250	10.00		95	70	77	44	7	25	29.92	30.02	12	SCT	250	10.00		94	70	77	46	0	00	30.03	30.14
15	SCT	065	10.00		98	68	77	38	5	16	29.86	29.96	15	FEW	060	10.00		96	69	77	41	7	13	29.96	30.07
18	BKN	250	10.00		93	72	78	50	18	14	29.82	29.92	18	SCT	250	10.00		94	67	75	41	7	17	29.92	30.03
21	CLR	NC	10.00		86	73	77	65	9	17	29.85	29.96	21	SCT	250	10.00		87	70	75	57	6	18	29.95	30.06
24	CLR	NC	10.00		82	76	78	82	6	19	29.88	29.98	24	SCT	250	10.00		81	75	77	82	0	00	29.96	30.07
<b>SUNRISE: 0531 JUL 16</b>					<b>SUNSET: 1924</b>					<b>SUNRISE: 0534 JUL 22</b>					<b>SUNSET: 1921</b>										
03	CLR	NC	10.00		80	75	77	85	3	21	29.86	29.97	03	FEW	250	10.00		80	75	77	85	0	00	29.93	30.04
06	BKN	018	9.00		77	75	76	94	0	00	29.91	30.02	06	SCT	250	10.00		77	75	76	94	0	00	29.97	30.07
09	SCT	250	10.00		87	74	78	65	7	22	29.94	30.04	09	FEW	024	10.00		88	75	79	66	0	00	29.98	30.09
12	SCT	047	10.00		94	71	78	48	7	14	29.92	30.03	12	SCT	045	10.00		94	71	78	48	3	VR	29.98	30.08
15	SCT	250	10.00		96	69	77	41	15	15	29.87	29.98	15	SCT	250	10.00		96	70	78	43	5	09	29.90	30.01
18	SCT	250	10.00		92	67	75	44	16	16	29.85	29.95	18	SCT	250	10.00		95	68	76	41	8	18	29.85	29.95
21	SCT	250	10.00		85	69	74	59	6	17	29.91	30.01	21	FEW	250	10.00		87	72	77	61	6	17	29.87	29.98
24	SCT	250	10.00		82	73	76	74	5	18	29.93	30.03	24	CLR	NC	10.00		83	74	77	74	5	18	29.89	30.00
<b>SUNRISE: 0532 JUL 17</b>					<b>SUNSET: 1924</b>					<b>SUNRISE: 0535 JUL 23</b>					<b>SUNSET: 1921</b>										
03	SCT	250	10.00		81	74	76	79	3	19	29.91	30.01	03	CLR	NC	10.00		81	75	77	82	0	00	29.87	29.97
06	FEW	250	10.00		77	74	75	90	0	00	29.92	30.03	06	SCT	250	10.00		78	75	76	90	0	00	29.87	29.97
09	SCT	250	10.00		86	73	77	65	5	16	29.97	30.08	09	SCT	250	10.00		87	75	78	67	6	VR	29.90	30.01
12	SCT	180	10.00		92	71	77	51	7	VR	29.97	30.07	12	SCT	250	10.00		94	72	78	49	8	19	29.87	29.98
15	SCT	110	10.00		94	70	77	46	14	16	29.93	30.03	15	SCT	250	10.00		98	70	78	40	5	29	29.81	29.91
18	SCT	130	10.00		86	73	77	65	8	15	29.92	30.03	18	SCT	250	10.00		93	75	80	56	9	19	29.76	29.87
21	SCT	250	10.00		83	74	77	74	9	13	29.96	30.06	21	SCT	250	10.00		87	74	78	65	6	17	29.81	29.92
24	FEW	250	10.00		81	75	77	82	0	00	29.98	30.09	24	SCT	250	10.00		83	75	77	77	3	18	29.84	29.94
<b>SUNRISE: 0532 JUL 18</b>					<b>SUNSET: 1923</b>					<b>SUNRISE: 0536 JUL 24</b>					<b>SUNSET: 1920</b>										
03	SCT	250	10.00		79	75	76	88	0	00	29.98	30.09	03	SCT	250	10.00		82	76	78	82	0	00	29.82	29.92
06	SCT	250	10.00		78	75	76	90	3	01	30.01	30.12	06	BKN	250	10.00		78	76	77	93	0	00	29.84	29.95
09	BKN	250	10.00		89	76	80	65	0	00	30.03	30.14	09	SCT	250	10.00		89	75	79	63	6	26	29.87	29.97
12	BKN	250	10.00		94	72	78	49	0	00	30.03	30.14	12	SCT	250	10.00		95	71	78	46	6	VR	29.84	29.95
15	BKN	250	10.00		90	75	79	62	7	15	30.00	30.10	15	SCT	250	10.00		97	69	77	40	8	24	29.78	29.89
18	SCT	120	10.00		87	76	79	70	8	13	29.98	30.09	18	BKN	250	10.00		92	75	80	58	15	14	29.77	29.88
21	BKN	250	10.00		82	76	78	82	7	11	30.01	30.12	21	BKN	250	10.00		88	73	77	61	7	18	29.82	29.92
24	BKN	250	10.00		80	76	77	87	0	00	30.01	30.11	24	BKN	250	10.00		84	76	78	77	0	00	29.84	29.94

# OBSERVATIONS AT 3-HOURLY INTERVALS

**HOUSTON, TX**  
**JULY 2016**

**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					
<b>SUNRISE: 0536 JUL 25 SUNSET: 1920</b>					03	BKN	250	10.00	-RA	81	76	77	85	0	00	29.82	29.92
06	SCT	250	10.00		80	76	77	87	0	00	29.85	29.96					
09	SCT	250	10.00		88	75	79	66	8	29	29.85	29.96					
12	BKN	250	10.00		92	72	78	52	0	00	29.82	29.92					
15	BKN	250	10.00		85	73	77	68	22	14	29.79	29.90					
18	BKN	170	10.00		84	73	76	70	5	19	29.82	29.92					
21	SCT	150	10.00		81	73	75	77	3	32	29.80	29.91					
24	BKN	250	10.00		78	73	75	85	3	30	29.78	29.89					
<b>SUNRISE: 0537 JUL 26 SUNSET: 1919</b>					03	BKN	040	10.00	BR	78	76	77	93	0	00	29.81	29.92
06	OVC	003	0.25		78	76	77	93	5	07	29.82	29.92					
09	BKN	250	8.00		81	76	77	85	5	08	29.84	29.95					
12	BKN	250	10.00	TS	91	74	79	57	6	VR	29.82	29.92					
15	SCT	090	10.00		84	75	78	74	8	20	29.80	29.91					
18	SCT	180	10.00		82	73	76	74	5	22	29.77	29.88					
21	BKN	250	10.00		80	73	75	79	5	17	29.82	29.93					
24	BKN	220	10.00		79	73	75	82	3	20	29.83	29.93					
<b>SUNRISE: 0537 JUL 27 SUNSET: 1919</b>					03	BKN	180	10.00		78	74	75	87	0	00	29.81	29.91
06	BKN	250	10.00		78	75	76	90	0	00	29.84	29.95					
09	SCT	060	10.00		84	75	78	74	6	VR	29.88	29.98					
12	BKN	120	10.00		75	73	74	94	6	11	29.91	30.02					
15	BKN	150	10.00		81	75	77	82	10	13	29.85	29.96					
18	SCT	190	10.00		85	78	80	80	7	12	29.80	29.90					
21	BKN	200	10.00		82	75	77	79	3	18	29.84	29.95					
24	OVC	170	10.00		79	77	78	94	0	00	29.86	29.97					
<b>SUNRISE: 0538 JUL 28 SUNSET: 1918</b>					03	OVC	200	10.00	-TSRA BR	82	78	79	88	0	00	29.85	29.96
06	BKN	200	7.00		80	78	79	94	3	17	29.89	29.99					
09	BKN	150	10.00		87	78	80	75	5	19	29.91	30.01					
12	OVC	060	5.00		76	73	74	91	5	24	29.94	30.05					
15	BKN	120	10.00		79	74	76	85	3	30	29.89	29.99					
18	BKN	160	10.00		84	74	77	72	0	00	29.85	29.96					
21	BKN	250	10.00		78	75	76	90	3	16	29.87	29.97					
24	SCT	250	10.00		76	74	75	94	0	00	29.88	29.99					
<b>SUNRISE: 0539 JUL 29 SUNSET: 1917</b>					03	SCT	250	8.00	MIFG	76	74	75	94	0	00	29.88	29.98
06	BKN	200	8.00		77	75	76	94	3	18	29.88	29.99					
09	BKN	150	10.00		86	74	78	67	5	23	29.93	30.04					
12	BKN	250	10.00		90	73	78	58	0	00	29.92	30.03					
15	BKN	200	10.00		92	73	78	54	10	08	29.87	29.97					
18	SCT	250	10.00		89	73	78	59	11	15	29.83	29.93					
21	SCT	250	10.00		85	74	77	70	8	17	29.84	29.95					
24	SCT	200	10.00		81	76	77	85	0	00	29.90	30.01					
<b>SUNRISE: 0539 JUL 30 SUNSET: 1917</b>					03	SCT	200	10.00		80	76	77	87	0	00	29.90	30.01
06	FEW	200	10.00		77	75	76	94	3	16	29.90	30.00					
09	SCT	022	10.00		86	76	79	72	9	26	29.92	30.02					
12	SCT	040	10.00		94	73	79	51	7	27	29.91	30.01					
15	BKN	250	10.00		95	70	77	44	5	VR	29.85	29.96					
18	BKN	250	10.00		86	72	76	63	8	16	29.85	29.96					
21	SCT	250	10.00		85	75	78	72	5	18	29.86	29.97					
24	FEW	250	10.00		82	76	78	82	3	20	29.88	29.99					

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					
<b>SUNRISE: 0540 JUL 31 SUNSET: 1916</b>					03	FEW	250	10.00		80	76	77	87	5	18	29.88	29.98
06	SCT	250	10.00		79	76	77	90	0	00	29.90	30.00					
09	BKN	250	10.00		86	76	79	72	9	21	29.93	30.04					
12	BKN	250	10.00		92	73	78	54	7	21	29.92	30.03					
15	OVC	250	10.00		94	71	78	48	9	19	29.87	29.97					
18	BKN	250	10.00		90	75	79	62	8	16	29.86	29.96					
21	FEW	250	10.00		84	75	78	74	7	17	29.89	29.99					
24	FEW	250	10.00		81	75	77	82	5	19	29.91	30.02					

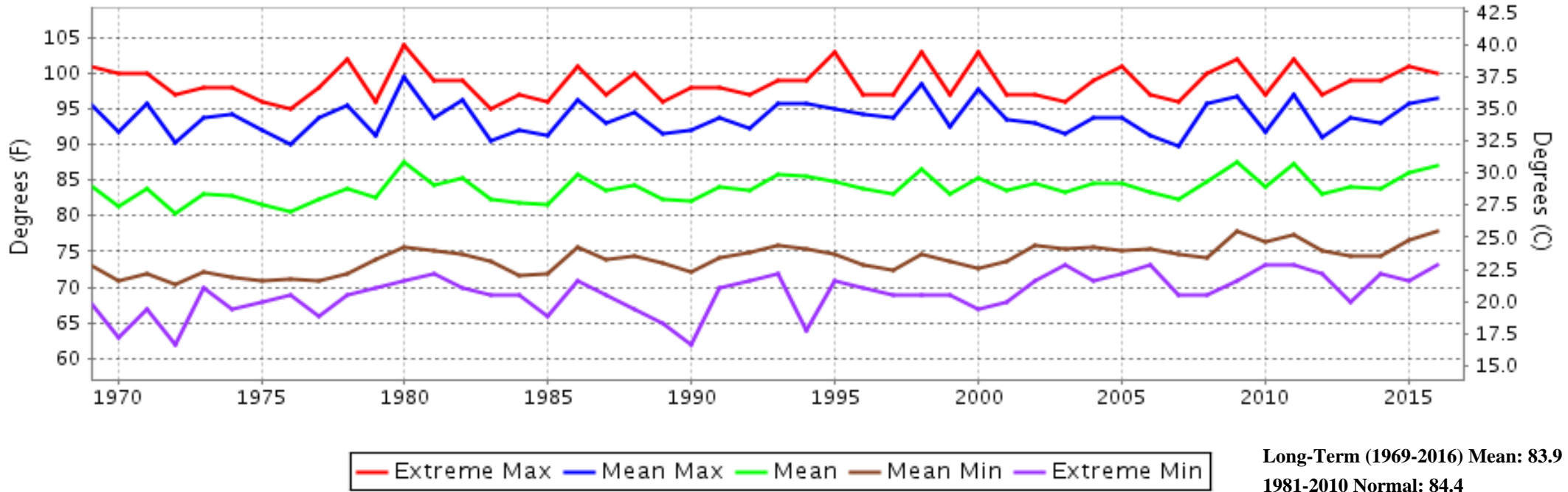
**3-HOURLY OBSERVATION NOTES**

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.

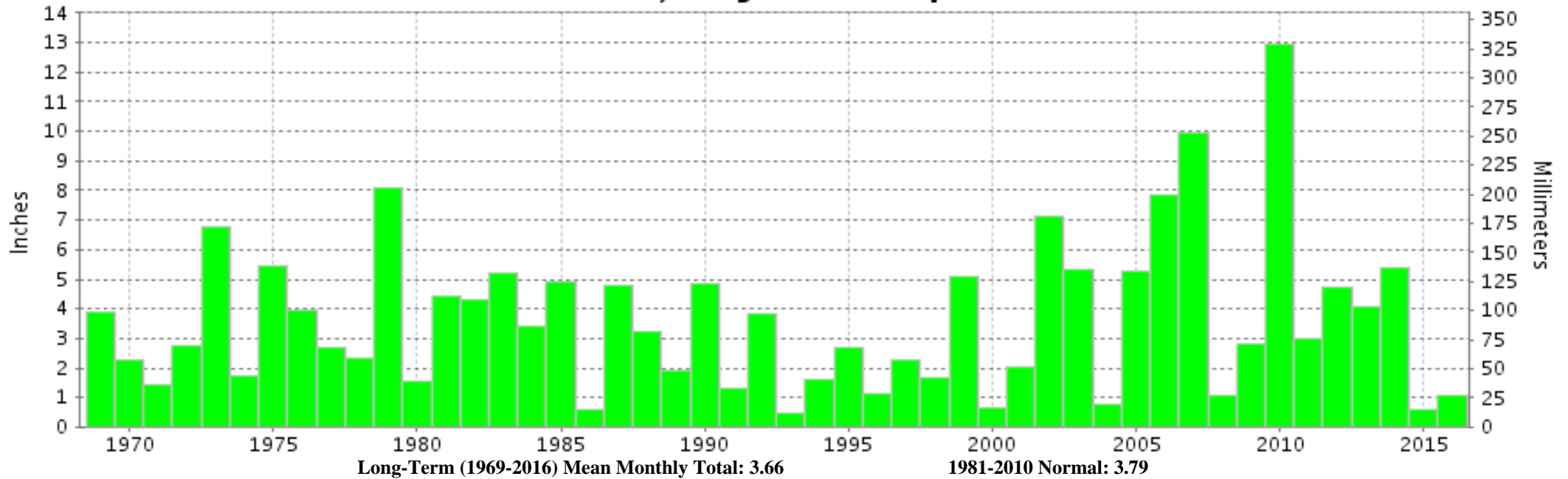
## SUMMARY BY HOUR

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	81	75	77	83	29.89	30.00	9.97	4	5	18
02	80	75	77	86	29.88	29.99	10.00	4	5	19
03	80	76	77	86	29.88	29.99	9.94	3	7	18
04	80	76	77	88	29.88	29.99	9.84	3	7	18
05	79	76	77	89	29.89	30.00	9.49	3	7	18
06	79	76	77	90	29.91	30.01	9.07	2	7	18
07	82	77	78	84	29.92	30.02	9.40	4	6	17
08	85	77	79	76	29.93	30.04	9.84	6	5	20
09	87	75	79	68	29.93	30.04	9.90	7	5	21
10	89	74	78	61	29.94	30.04	9.84	7	5	20
11	91	73	78	57	29.93	30.04	9.90	7	5	18
12	92	72	78	54	29.93	30.03	9.74	7	5	19
13	93	72	78	52	29.91	30.01	10.00	8	5	17
14	93	71	78	51	29.89	30.00	10.00	8	5	15
15	93	72	78	51	29.87	29.98	10.00	10	5	15
16	92	72	78	53	29.86	29.97	9.84	10	5	14
17	91	72	78	55	29.85	29.96	10.00	10	5	14
18	90	72	77	57	29.85	29.96	10.00	10	5	14
19	88	73	77	61	29.85	29.96	10.00	10	5	14
20	86	73	77	65	29.86	29.97	10.00	8	4	15
21	84	74	77	71	29.88	29.98	10.00	8	4	16
22	83	75	77	75	29.90	30.00	10.00	7	4	17
23	83	75	77	78	29.90	30.01	10.00	6	4	17
24	82	75	77	82	29.90	30.01	9.97	4	5	18

# HOUSTON, TX JULY Temperatures



# HOUSTON, TX JULY Precipitation





**JULY 2016  
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.*

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

**DIRECTOR**

NCDC now offers free online access to the **Edited Local Climatological Data Publication**. Go to : [www.ncdc.noaa.gov](http://www.ncdc.noaa.gov) and choose Most Popular.

We welcome your questions or comments, please contact us at:  
(828) 271-4800, option 2  
Fax Number : 828-271-4876  
TDD : (828) 271-4010  
or Email : [ncdc.orders@noaa.gov](mailto:ncdc.orders@noaa.gov)

NOAA\National Climatic Data Center  
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151 Patton Avenue  
Asheville, NC 28801-5001