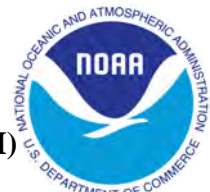




JULY 2013 LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

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	93	69	81	-2	59	67	0	16		0		0.0	0.00	29.81	29.92	4.8	01	5.0	28	03	17	01	01	
02	95	70	83	0	60	68	0	18		0		0.0	0.00	29.86	29.96	2.6	03	5.2	17	04	15	01	02	
03	94	70	82	-1	63	70	0	17		0		0.0	0.00	29.85	29.97	3.6	11	6.1	24	04	17	05	03	
04	96	71	84	1	66	71	0	19	TS RA	0		0.0	T	29.83	29.95	2.5	06	4.6	21	23	17	04	04	
05	97	71	84	1	67	73	0	19	HZ	0		0.0	0.00	29.81	29.93	5.7	11	6.9	24	13	18	13	05	
06	96	75	86	3	72	76	0	21		0		0.0	0.00	29.79	29.90	7.4	11	8.8	30	13	22	14	06	
07	91	75	83	0	73	76	0	18	RA	0		0.0	0.01	29.86	29.96	7.1	13	8.9	28	14	24	13	07	
08	89	74	82	-1	74	76	0	17	RA BR	0		0.0	0.52	29.98	30.08	3.2	16	5.8	25	22	18	23	08	
09	96	74	85	2	73	77	0	20		0		0.0	0.00	29.98	30.09	4.4	16	5.3	29	15	20	14	09	
10	97	75	86	3	73	77	0	21		0		0.0	0.00	29.91	30.03	4.7	18	5.4	23	15	17	15	10	
11	98	78	88	5	71	76	0	23		0		0.0	0.00	29.83	29.96	4.6	20	6.1	17	15	16	16	11	
12	98	79	89*	6	72	77	0	24		0		0.0	0.00	29.80	29.92	3.4	20	5.5	18	14	14	16	12	
13	99*	77	88	5	70	76	0	23	RA	0		0.0	T	29.78	29.90	1.2	22	4.4	31	36	26	01	13	
14	91	68*	80	-3	71	74	0	15	TS TSRA RA BR	0		0.0	1.73	29.80	29.91	1.8	18	5.3	23	27	23	27	14	
15	89	72	81	-3	72	74	0	16	TS RA BR	0		0.0	0.35	29.88	29.98	6.6	12	7.1	37*	14	30	14	15	
16	90	74	82	-2	73	75	0	17	TS TSRA RA HZ	0		0.0	0.20	29.96	30.06	8.1	08	9.2	35	12	30*	11	16	
17	85	71	78*	-6	74	75	0	13	RA BR	0		0.0	0.82	30.02	30.14	6.5	11	7.3	25	13	21	12	17	
18	93	73	83	-1	70	74	0	18		0		0.0	0.00	29.95	30.08	5.4	11	6.9	23	12	16	14	18	
19	89	73	81	-3	72	74	0	16	TS TSRA RA BR	0		0.0	0.18	29.88	30.01	2.4	07	3.3	30	13	24	13	19	
20	88	74	81	-3	74	75	0	16	TS TSRA RA	0		0.0	0.03	29.83	29.95	3.0	08	4.6	23	14	18	13	20	
21	88	74	81	-3	74	76	0	16	RA BR	0		0.0	T	29.85	29.96	6.5	18	6.6	28	15	21	18	21	
22	95	77	86	2	75	78	0	21		0		0.0	0.00	29.87	29.98	7.9	18	8.1	22	17	17	16	22	
23	95	79	87	3	74	77	0	22		0		0.0	0.00	29.85	29.97	7.6	20	7.9	22	20	15	17	23	
24	96	77	87	3	73	77	0	22		0		0.0	0.00	29.83	29.94	4.8	22	5.5	17	24	13	23	24	
25	96	78	87	3	73	77	0	22		0		0.0	0.00	29.89	29.99	3.0	20	4.9	18	17	16	15	25	
26	96	78	87	3	74	77	0	22		0		0.0	0.00	29.85	29.97	6.5	20	7.0	21	17	15	19	26	
27	94	79	87	3	76	78	0	22	RA	0		0.0	0.14	29.80	29.91	2.7	26	7.0	18	01	16	01	27	
28	93	75	84	0	74	77	0	19	RA	0		0.0	0.11	29.83	29.93	4.1	13	7.2	22	15	18	15	28	
29	95	75	85	1	72	76	0	20		0		0.0	0.00	29.92	30.02	8.7	17	8.9	26	15	21	15	29	
30	96	77	87	3	73	77	0	22		0		0.0	0.00	29.96	30.06	7.0	17	7.7	23	15	20	16	30	
31	98	74	86	2	73	77	0	21		0		0.0	0.00	29.91	30.03	4.3	18	5.6	21	15	18	15	31	

93.7		74.4		84.1		☼	71.3		75.1		0.0		19.2		< MONTHLY AVERAGES TOTALS >				0.0		4.09		29.87		29.98		3.2		15		6.4		< MONTHLY AVERAGES			
0.0		-0.7		-0.3			<-----DEPARTURE FROM NORMAL----->										0.30		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																	
DEGREE DAYS										GREATEST 24-HR PRECIPITATION : 1.73 DATE : 14										SEA LEVEL PRESSURE				DATE TIME												
MONTHLY					SEASON TO DATE					GREATEST 24-HR SNOWFALL : 0.0 DATE :					MAXIMUM : 30.20				17 0859																	
TOTAL DEPARTURE					TOTAL DEPARTURE					GREATEST SNOW DEPTH : 0 DATE :					MINIMUM : 29.83				13 1753																	
HEATING :		0		0		0		0		NUMBER OF		MAXIMUM TEMP >= 90 :		25		MINIMUM TEMP <= 32 :		0		PRECIPITATION >= 0.01 INCH :		10														
COOLING :		596		-5		1757		-16		->		MAXIMUM TEMP <= 32 :		0		MINIMUM TEMP <= 0 :		0		PRECIPITATION >= 0.10 INCH :		8														
										DAYS WITH		THUNDERSTORMS :		6		HEAVY FOG		:		SNOWFALL >= 1.0 INCH :		0														

**JULY 2013
HOUSTON, TX**

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX (KIAH)
JULY 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													02												02	0.00	0.00	
03													03												03	0.00	0.00	
04													04											T	04	T	T	
05													05											T	05	0.00	0.00	
06													06												06	0.00	0.00	
07													07	0.01											07	0.01	0.01	
08													08												08	0.52	0.52	
09													09												09	0.00	0.00	
10													10												10	0.00	0.00	
11													11												11	0.00	0.00	
12													12												12	0.00	0.00	
13													13		T	T									13	T	T	
14													14						T	0.02					14	0.02*	1.73	
15													15				T		0.19	0.02				T	15	0.35	0.35	
16													16												16	0.20	0.20	
17	T	T	T		T	T			0.03	0.58	0.21	T	17		T									T	17	0.82	0.82	
18													18												18	0.00	0.00	
19													19	0.17	T	0.01	T			T					19	0.18	0.18	
20													20		T	T	0.01	0.02							20	0.03	0.03	
21													21												21	T	T	
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		0.02	0.10									27	0.14	0.14	
28													28												28	0.11	0.11	
29													29												29	0.00	0.00	
30													30												30	0.00	0.00	
31													31												31	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)												
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	
VC In the Vicinity	UP Unkown Precipitation		GL Glaze

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

HOUSTON, TX JULY 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.

Date	VISIBILITY (MILES)	
	MINIMUM	MAXIMUM
01	10.00	10.00
02	10.00	10.00
03	10.00	10.00
04	8.00	10.00
05	6.00	10.00
06	7.00	10.00
07	10.00	10.00
08	3.00	10.00
09	10.00	10.00
10	10.00	10.00
11	10.00	10.00
12	10.00	10.00
13	10.00	10.00
14	1.00	10.00
15	5.00	10.00
16	0.75	10.00
17	1.50	10.00
18	10.00	10.00
19	3.00	10.00
20	9.00	10.00
21	8.00	10.00
22	10.00	10.00
23	8.00	10.00
24	10.00	10.00
25	10.00	10.00
26	10.00	10.00
27	7.00	10.00
28	7.00	10.00
29	8.00	10.00
30	10.00	10.00
31	10.00	10.00
AVGS	7.81	10.00
MINIMUM VISIBILITY (MILES)		
<= .25	<= 3.0	>= 7.0
0	5	24

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX
JULY 2013

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
SUNRISE: 0524 JUL 01					SUNSET: 1927					SUNRISE: 0527 JUL 07					SUNSET: 1926										
03	FEW	250	10.00		74	58	64	57	0	00	29.77	29.88	03	FEW	022	10.00		76	74	75	94	7	06	29.81	29.91
06	CLR	NC	10.00		71	59	64	66	0	00	29.80	29.91	06	SCT	022	10.00		76	74	75	94	3	03	29.83	29.94
09	SCT	250	10.00		84	61	69	46	3	01	29.83	29.94	09	SCT	250	10.00		86	74	78	67	5	12	29.86	29.97
12	SCT	065	10.00		90	56	69	32	6	VR	29.82	29.93	12	OVC	250	10.00		85	75	78	72	9	11	29.87	29.98
15	BKN	250	10.00		91	56	69	31	11	35	29.80	29.90	15	BKN	250	10.00		88	73	77	61	16	12	29.84	29.95
18	SCT	250	10.00		89	59	70	36	9	34	29.80	29.91	18	BKN	250	10.00		84	72	76	67	11	16	29.86	29.97
21	SCT	250	10.00		78	61	67	56	0	00	29.82	29.93	21	SCT	250	10.00		80	72	75	76	6	18	29.87	29.98
24	SCT	250	10.00		76	62	67	62	0	00	29.84	29.94	24	SCT	250	10.00		79	73	75	82	6	18	29.90	30.01
SUNRISE: 0524 JUL 02					SUNSET: 1927					SUNRISE: 0527 JUL 08					SUNSET: 1926										
03	BKN	250	10.00		72	61	65	68	3	36	29.85	29.95	03	SCT	250	10.00		79	73	75	82	5	18	29.92	30.03
06	SCT	250	10.00		71	61	65	71	0	00	29.88	29.98	06	BKN	250	10.00		77	74	75	90	5	11	29.97	30.07
09	CLR	NC	10.00		86	61	70	43	5	05	29.90	30.01	09	BKN	250	10.00		86	74	78	67	15	27	30.00	30.11
12	BKN	075	10.00		90	57	69	33	8	05	29.89	29.99	12	BKN	100	10.00		77	72	74	85	0	00	30.02	30.13
15	SCT	085	10.00		92	55	69	29	5	VR	29.83	29.93	15	BKN	250	10.00		85	72	76	65	3	21	29.98	30.08
18	BKN	090	10.00		90	54	68	29	6	07	29.82	29.92	18	BKN	250	10.00		88	73	77	61	7	VR	29.95	30.06
21	BKN	085	10.00		82	64	70	55	6	23	29.86	29.97	21	SCT	250	10.00		81	75	77	82	8	15	29.98	30.10
24	BKN	100	10.00		75	66	69	74	6	04	29.90	30.00	24	FEW	250	10.00		78	75	76	90	3	18	30.01	30.11
SUNRISE: 0525 JUL 03					SUNSET: 1926					SUNRISE: 0527 JUL 09					SUNSET: 1926										
03	BKN	110	10.00		76	67	70	74	6	03	29.89	30.00	03	FEW	250	10.00		76	75	75	97	0	00	30.00	30.10
06	BKN	090	10.00		71	65	67	81	0	00	29.89	29.99	06	FEW	250	10.00		75	74	74	96	0	00	30.02	30.12
09	FEW	110	10.00		85	62	70	46	5	06	29.91	30.02	09	FEW	023	10.00		87	74	78	65	7	16	30.03	30.14
12	SCT	110	10.00		91	60	71	35	6	14	29.89	29.99	12	SCT	045	10.00		93	71	78	49	6	18	30.01	30.11
15	SCT	090	10.00		93	60	72	33	11	13	29.83	29.93	15	BKN	080	10.00		90	72	77	56	13	20	29.98	30.08
18	SCT	110	10.00		89	62	71	41	11	11	29.80	29.91	18	CLR	NC	10.00		91	70	76	50	13	14	29.93	30.03
21	BKN	100	10.00		83	66	72	57	7	17	29.84	29.94	21	CLR	NC	10.00		84	73	76	70	6	18	29.94	30.05
24	BKN	090	10.00		77	66	70	69	0	00	29.86	29.96	24	FEW	250	10.00		81	76	77	85	6	18	29.97	30.08
SUNRISE: 0525 JUL 04					SUNSET: 1926					SUNRISE: 0528 JUL 10					SUNSET: 1926										
03	SCT	250	10.00		74	67	69	79	0	00	29.85	29.96	03	SCT	250	10.00		78	75	76	90	0	00	29.97	30.07
06	SCT	250	8.00		72	69	70	91	3	05	29.86	29.96	06	FEW	023	10.00		76	75	75	97	0	00	29.97	30.07
09	FEW	250	10.00		87	66	73	50	5	36	29.88	29.99	09	SCT	023	10.00		86	74	78	67	7	25	29.98	30.09
12	BKN	250	10.00		91	62	72	38	0	00	29.85	29.96	12	SCT	045	10.00		94	70	77	46	6	VR	29.95	30.06
15	BKN	250	10.00		93	60	72	33	8	10	29.81	29.91	15	SCT	250	10.00		94	70	77	46	10	16	29.89	30.00
18	BKN	250	10.00		90	62	72	39	16	07	29.79	29.89	18	SCT	250	10.00		92	71	77	51	13	17	29.83	29.94
21	BKN	250	10.00		79	68	72	69	0	00	29.84	29.94	21	SCT	250	10.00		86	73	77	65	6	18	29.87	29.98
24	BKN	250	8.00		76	69	71	79	0	00	29.85	29.96	24	SCT	250	10.00		81	74	76	79	6	19	29.89	29.99
SUNRISE: 0526 JUL 05					SUNSET: 1926					SUNRISE: 0528 JUL 11					SUNSET: 1925										
03	BKN	250	7.00		73	68	70	84	0	00	29.83	29.94	03	FEW	250	10.00		79	75	76	88	3	20	29.90	30.01
06	FEW	250	8.00		72	67	69	84	3	34	29.84	29.95	06	FEW	250	10.00		78	75	76	90	0	00	29.90	30.01
09	CLR	NC	10.00		86	70	75	59	3	VR	29.87	29.97	09	SCT	250	10.00		86	71	76	61	10	23	29.88	29.98
12	SCT	065	10.00		96	63	74	34	7	08	29.85	29.95	12	BKN	250	10.00		93	70	77	47	6	27	29.88	29.98
15	SCT	070	10.00		94	62	73	35	9	11	29.78	29.89	15	BKN	250	10.00		97	64	75	34	9	14	29.81	29.91
18	SCT	080	10.00		91	61	71	37	16	11	29.75	29.86	18	BKN	250	10.00		95	68	76	41	7	16	29.78	29.88
21	FEW	035	10.00		84	73	76	70	14	13	29.80	29.91	21	SCT	250	10.00		86	69	74	57	9	19	29.80	29.90
24	SCT	100	10.00		78	74	75	87	8	10	29.82	29.93	24	SCT	250	10.00		82	73	76	74	6	18	29.82	29.93
SUNRISE: 0526 JUL 06					SUNSET: 1926					SUNRISE: 0529 JUL 12					SUNSET: 1925										
03	SCT	026	10.00		76	74	75	94	3	01	29.81	29.92	03	BKN	250	10.00		81	75	77	82	6	23	29.81	29.91
06	FEW	026	9.00		76	74	75	94	5	02	29.82	29.93	06	BKN	250	10.00		79	75	76	88	3	27	29.84	29.94
09	BKN	023	10.00		86	73	77	65	10	11	29.83	29.93	09	BKN	250	10.00		84	74	77	72	7	30	29.86	29.97
12	SCT	049	10.00		91	67	75	45	14	09	29.82	29.92	12	BKN	250	10.00		92	69	76	47	3	VR	29.84	29.94
15	SCT	065	10.00		94	66	75	40	3	13	29.75	29.86	15	SCT	250	10.00		98	68	77	38	9	16	29.79	29.90
18	SCT	080	10.00		89	73	78	59	18	14	29.75	29.86	18	SCT	250	10.00		95	71	78	46	7	18	29.76	29.86
21	FEW	030	10.00		82	74	76	77	11	12	29.80	29.91	21	SCT	250	10.00		87	73	77	63	7	19	29.80	29.90
24	FEW	025	10.00		78	74	75	87	9	09	29.80	29.91	24	SCT	250	10.00		83	72	75	70	3	25	29.81	29.91

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX
JULY 2013

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
SUNRISE: 0529 JUL 13					SUNSET: 1925					SUNRISE: 0533 JUL 19					SUNSET: 1923										
03	SCT	250	10.00		80	72	75	76	0	00	29.81	29.91	03	BKN	250	10.00		75	71	72	88	0	00	29.92	30.02
06	SCT	250	10.00		79	73	75	82	0	00	29.84	29.94	06	BKN	250	10.00		75	71	72	88	0	00	29.93	30.03
09	FEW	055	10.00		87	70	75	57	7	30	29.87	29.97	09	BKN	250	10.00		83	74	77	74	3	VR	29.95	30.06
12	SCT	060	10.00		93	68	76	44	3	VR	29.82	29.93	12	BKN	250	10.00		89	69	75	52	0	00	29.91	30.02
15	BKN	250	10.00		90	68	75	48	13	32	29.77	29.87	15	BKN	250	10.00		78	73	75	85	9	06	29.90	30.01
18	BKN	250	10.00		94	69	77	44	9	14	29.73	29.83	18	BKN	250	10.00	-RA	77	73	74	88	6	10	29.84	29.95
21	BKN	250	10.00		86	70	75	59	7	15	29.77	29.87	21	SCT	250	10.00		75	74	74	96	3	12	29.87	29.98
24	BKN	250	10.00		83	72	75	70	5	17	29.79	29.89	24	BKN	250	10.00		74	73	73	97	0	00	29.88	29.98
SUNRISE: 0530 JUL 14					SUNSET: 1925					SUNRISE: 0533 JUL 20					SUNSET: 1922										
03	BKN	250	10.00		81	74	76	79	5	18	29.78	29.88	03	BKN	250	10.00		75	74	74	96	3	02	29.86	29.97
06	OVC	250	10.00		79	74	76	85	5	17	29.79	29.89	06	BKN	250	10.00		74	73	73	97	0	00	29.86	29.97
09	OVC	250	10.00		85	71	75	63	5	24	29.81	29.92	09	BKN	250	10.00		84	76	78	77	3	18	29.87	29.97
12	OVC	200	10.00		87	69	75	55	3	20	29.84	29.94	12	BKN	250	10.00		87	73	77	63	6	VR	29.85	29.95
15	OVC	200	10.00		90	71	77	54	5	13	29.78	29.89	15	BKN	090	10.00		81	75	77	84	10	07	29.85	29.95
18	BKN	130	10.00		78	71	73	79	8	03	29.78	29.88	18	BKN	250	10.00		79	74	76	85	10	05	29.80	29.91
21	OVC	080	10.00		72	66	68	82	3	01	29.81	29.92	21	SCT	250	10.00		75	74	74	96	6	13	29.81	29.91
24	BKN	130	10.00		73	71	72	94	6	15	29.82	29.93	24	SCT	250	10.00		75	74	74	96	0	00	29.84	29.94
SUNRISE: 0531 JUL 15					SUNSET: 1924					SUNRISE: 0534 JUL 21					SUNSET: 1922										
03	BKN	130	10.00		73	71	72	94	6	16	29.81	29.92	03	SCT	250	10.00		75	74	74	96	0	00	29.81	29.92
06	OVC	250	10.00		73	71	72	94	3	13	29.86	29.97	06	SCT	250	10.00		75	74	74	96	3	17	29.84	29.95
09	OVC	250	10.00		76	72	73	88	10	10	29.90	30.01	09	BKN	250	10.00		77	76	76	96	5	16	29.87	29.98
12	OVC	200	10.00		84	73	76	70	8	07	29.90	30.01	12	BKN	250	10.00		85	76	79	75	8	18	29.87	29.98
15	BKN	250	10.00		88	73	77	61	11	10	29.84	29.95	15	BKN	250	10.00		85	73	77	68	11	17	29.84	29.95
18	BKN	090	10.00		77	74	75	90	6	10	29.87	29.98	18	BKN	250	10.00		85	72	76	65	8	18	29.81	29.92
21	BKN	250	10.00		74	72	73	94	7	12	29.92	30.03	21	SCT	250	10.00		81	75	77	82	5	17	29.85	29.96
24	BKN	150	5.00	BR	75	73	74	94	7	13	29.94	30.05	24	BKN	250	10.00		80	76	77	87	7	17	29.88	29.98
SUNRISE: 0531 JUL 16					SUNSET: 1924					SUNRISE: 0534 JUL 22					SUNSET: 1921										
03	BKN	120	10.00		75	73	74	94	5	04	29.93	30.03	03	SCT	250	10.00		79	77	78	94	3	18	29.86	29.96
06	BKN	140	10.00		75	73	74	94	7	07	29.94	30.05	06	SCT	250	10.00		79	77	78	94	3	19	29.88	29.98
09	BKN	250	10.00		82	73	76	74	10	09	29.98	30.09	09	SCT	250	10.00		85	76	79	75	11	18	29.91	30.01
12	BKN	150	10.00		86	72	76	63	15	10	29.97	30.08	12	FEW	046	10.00		92	74	79	56	14	17	29.90	30.00
15	OVC	070	0.75	TSRA	76	71	73	85	26	12	29.96	30.06	15	BKN	250	10.00		94	72	78	49	13	22	29.85	29.95
18	OVC	110	10.00	-RA	77	75	76	94	7	02	29.96	30.06	18	SCT	250	10.00		90	73	78	58	13	17	29.83	29.94
21	SCT	130	10.00		76	74	75	94	7	06	29.98	30.10	21	SCT	250	10.00		84	75	78	74	7	19	29.87	29.98
24	BKN	060	10.00	-RA	75	74	74	96	8	05	30.00	30.11	24	BKN	024	10.00		81	77	78	88	6	19	29.90	30.01
SUNRISE: 0532 JUL 17					SUNSET: 1924					SUNRISE: 0535 JUL 23					SUNSET: 1921										
03	SCT	095	10.00		75	74	74	96	8	07	29.98	30.10	03	SCT	250	10.00		80	77	78	90	8	19	29.87	29.98
06	OVC	008	10.00		76	75	75	97	7	05	30.01	30.12	06	BKN	250	8.00		79	77	78	94	3	19	29.90	30.00
09	OVC	050	1.50	+RA BR	72	71	71	97	15	13	30.09	30.20	09	BKN	250	10.00		86	74	78	67	10	21	29.93	30.03
12	BKN	250	10.00		80	74	76	82	10	13	30.06	30.18	12	BKN	250	10.00		92	72	78	52	8	22	29.91	30.02
15	BKN	250	10.00		83	72	75	70	13	13	30.02	30.13	15	SCT	250	10.00		95	69	77	43	11	22	29.85	29.96
18	BKN	250	10.00		84	74	77	72	8	13	30.01	30.12	18	SCT	250	10.00		93	70	77	47	8	19	29.81	29.92
21	SCT	250	10.00		78	74	75	87	5	12	30.03	30.14	21	SCT	250	10.00		84	72	76	67	7	19	29.83	29.93
24	SCT	250	10.00		75	74	74	96	0	00	30.02	30.13	24	FEW	250	10.00		79	75	76	88	8	19	29.84	29.94
SUNRISE: 0532 JUL 18					SUNSET: 1923					SUNRISE: 0536 JUL 24					SUNSET: 1920										
03	FEW	250	10.00		75	73	74	94	0	00	30.01	30.12	03	FEW	250	10.00		79	75	76	88	3	20	29.83	29.94
06	SCT	250	10.00		74	72	73	94	6	03	30.01	30.11	06	BKN	250	10.00		78	75	76	90	0	00	29.87	29.98
09	SCT	250	10.00		84	74	77	72	8	07	30.03	30.14	09	BKN	250	10.00		84	75	78	74	9	21	29.88	29.98
12	FEW	047	10.00		91	69	76	49	9	16	30.01	30.11	12	BKN	250	10.00		90	73	78	58	9	23	29.87	29.98
15	SCT	250	10.00		92	70	77	49	13	12	29.92	30.03	15	BKN	250	10.00		93	71	78	49	8	22	29.79	29.89
18	SCT	250	10.00		89	64	72	43	13	14	29.89	29.99	18	BKN	250	10.00		93	68	76	44	3	22	29.77	29.88
21	OVC	250	10.00		80	68	72	67	8	11	29.93	30.03	21	SCT	250	10.00		87	74	78	65	6	18	29.81	29.91
24	SCT	250	10.00		77	72	74	85	3	19	29.94	30.04	24	SCT	250	10.00		81	75	77	82	7	21	29.85	29.95

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX
JULY 2013

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: 0536 JUL 25 SUNSET: 1920					79	75	76	88	7	23	29.85	29.96
03	FEW	250	10.00		78	75	76	90	0	00	29.90	30.00
06	BKN	250	10.00		84	75	78	74	9	27	29.93	30.03
09	SCT	250	10.00		91	70	76	50	0	00	29.92	30.03
12	SCT	250	10.00		95	69	77	43	0	00	29.88	29.99
15	SCT	250	10.00		93	72	78	50	14	15	29.86	29.97
18	SCT	250	10.00		85	75	78	72	9	17	29.89	30.00
21	SCT	250	10.00		82	76	78	82	5	20	29.92	30.02
24	FEW	250	10.00									
SUNRISE: 0537 JUL 26 SUNSET: 1919					80	76	77	87	6	19	29.90	30.00
03	SCT	250	10.00		79	76	77	90	0	00	29.92	30.03
06	SCT	250	10.00		84	76	78	77	9	24	29.93	30.03
09	BKN	250	10.00		91	72	78	54	7	20	29.91	30.01
12	BKN	250	10.00		96	67	76	39	8	18	29.84	29.94
15	BKN	250	10.00		92	72	78	52	8	18	29.78	29.89
18	BKN	250	10.00		84	74	77	72	9	19	29.82	29.92
21	SCT	250	10.00		83	76	78	79	13	21	29.84	29.95
24	BKN	250	10.00									
SUNRISE: 0537 JUL 27 SUNSET: 1919					82	76	78	82	8	23	29.82	29.92
03	OVC	250	10.00	-RA	79	77	78	94	6	19	29.84	29.94
06	OVC	110	7.00	-RA	85	74	77	70	11	25	29.83	29.93
09	BKN	250	10.00		90	73	78	58	7	VR	29.82	29.92
12	BKN	090	10.00		87	76	79	70	9	36	29.78	29.88
15	BKN	250	10.00		87	75	78	67	9	02	29.76	29.87
18	BKN	250	10.00		81	77	78	88	0	00	29.80	29.91
21	BKN	250	10.00		79	78	78	97	5	05	29.80	29.91
24	BKN	090	10.00									
SUNRISE: 0538 JUL 28 SUNSET: 1918					78	74	75	87	11	06	29.81	29.91
03	OVC	024	10.00		75	74	74	96	8	10	29.82	29.93
06	BKN	250	10.00		81	76	77	85	7	36	29.86	29.96
09	BKN	250	10.00		88	77	80	70	3	VR	29.85	29.95
12	BKN	250	10.00		88	73	77	61	8	22	29.80	29.91
15	BKN	250	10.00		91	72	78	54	9	16	29.79	29.90
18	BKN	250	10.00		84	74	77	72	11	17	29.85	29.95
21	SCT	250	10.00		81	75	77	82	3	17	29.87	29.98
24	SCT	250	10.00									
SUNRISE: 0539 JUL 29 SUNSET: 1917					76	75	75	97	5	17	29.87	29.98
03	SCT	250	10.00		76	75	75	97	3	16	29.91	30.01
06	SCT	250	8.00		85	73	77	68	11	17	29.95	30.05
09	SCT	250	10.00		92	71	77	51	10	19	29.94	30.05
12	SCT	250	10.00		95	66	75	39	9	18	29.91	30.01
15	SCT	250	10.00		90	71	77	54	16	16	29.90	30.01
18	SCT	250	10.00		83	73	76	72	9	17	29.95	30.05
21	CLR	NC	10.00		80	75	77	85	8	17	29.96	30.07
24	FEW	250	10.00									
SUNRISE: 0539 JUL 30 SUNSET: 1917					79	75	76	88	5	18	29.95	30.06
03	SCT	250	10.00		78	75	76	90	0	00	29.98	30.10
06	BKN	250	10.00		84	75	78	74	9	21	30.02	30.12
09	BKN	250	10.00		90	71	77	54	9	20	30.00	30.10
12	BKN	250	10.00		96	68	77	40	13	18	29.93	30.03
15	SCT	250	10.00		91	72	78	54	14	17	29.91	30.01
18	SCT	250	10.00		82	74	76	77	10	18	29.95	30.06
21	FEW	250	10.00		79	74	76	85	6	19	29.97	30.07
24	FEW	250	10.00									

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: 0540 JUL 31 SUNSET: 1916					78	74	75	87	3	19	29.95	30.06
03	SCT	250	10.00		76	74	75	94	3	20	29.97	30.07
06	SCT	250	10.00		84	73	76	70	9	21	29.98	30.10
09	SCT	250	10.00		91	71	77	52	5	VR	29.95	30.06
12	FEW	041	10.00		96	68	77	40	0	00	29.89	29.99
15	SCT	250	10.00		92	76	80	60	14	14	29.83	29.94
18	SCT	250	10.00		85	73	77	68	7	17	29.87	29.98
21	SCT	250	10.00		81	73	75	77	3	18	29.89	30.00
24	FEW	250	10.00									

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

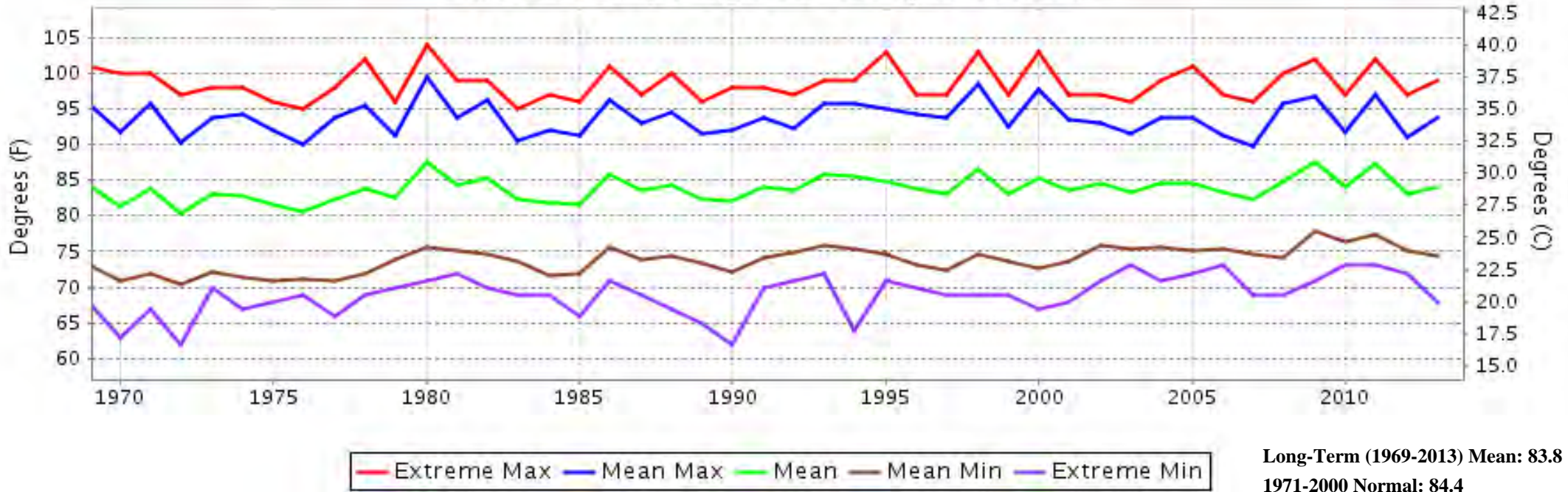
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No Ceiling detected.

& = Original observation contained additional weather elements. See page 3 for additional notes.

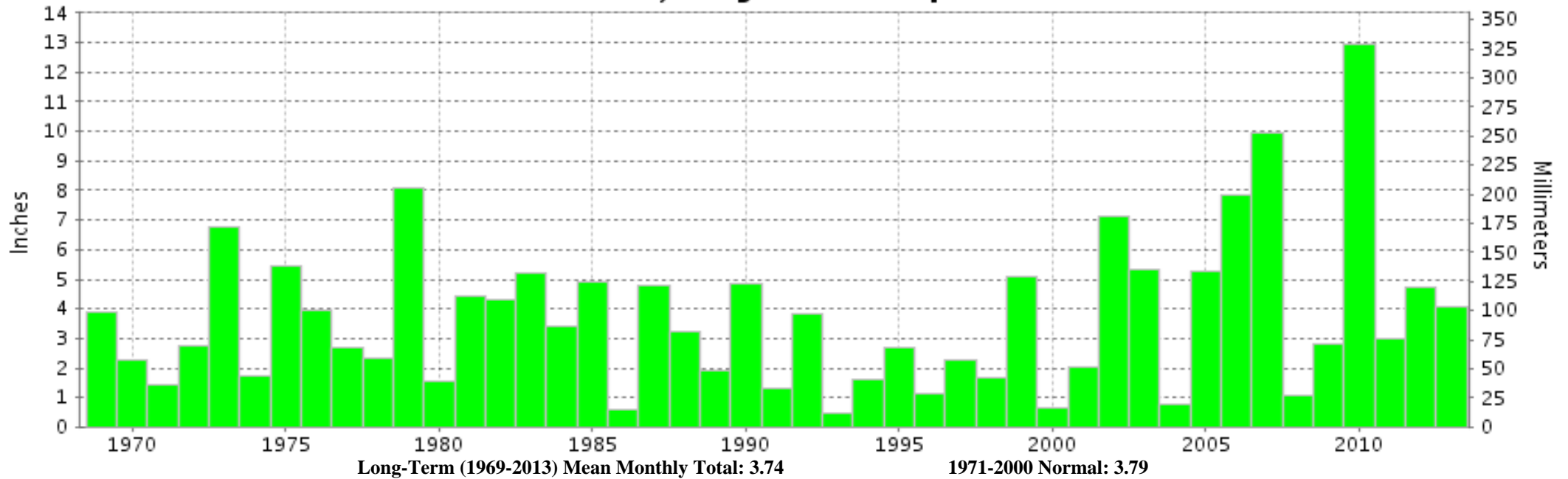
SUMMARY BY HOUR

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	78	72	74	84	29.87	29.98	9.90	4	4	17
02	78	73	74	85	29.87	29.98	9.90	4	4	17
03	77	73	74	87	29.87	29.98	9.90	4	4	17
04	76	72	74	88	29.88	29.98	9.81	3	4	17
05	76	72	74	90	29.88	29.99	9.87	3	5	17
06	76	73	74	90	29.89	30.00	9.61	3	5	16
07	78	73	75	85	29.91	30.01	9.71	4	4	16
08	81	73	76	78	29.91	30.02	9.68	6	4	17
09	84	72	76	69	29.92	30.02	9.73	8	3	19
10	85	71	76	64	29.92	30.02	10.00	7	4	19
11	88	70	76	58	29.92	30.02	9.77	7	4	16
12	89	70	76	54	29.90	30.01	10.00	7	5	15
13	90	69	76	52	29.88	29.99	9.77	7	5	14
14	91	69	76	49	29.87	29.97	10.00	9	5	13
15	91	68	76	51	29.85	29.96	9.70	10	5	14
16	91	68	75	51	29.84	29.95	9.97	10	5	13
17	90	69	76	53	29.83	29.94	10.00	9	6	13
18	88	70	76	57	29.83	29.94	10.00	10	6	12
19	86	71	76	62	29.84	29.94	10.00	9	5	13
20	83	71	75	69	29.85	29.96	9.71	8	4	15
21	82	72	75	74	29.87	29.97	10.00	7	4	15
22	80	73	75	78	29.88	29.98	9.97	6	4	16
23	80	73	75	81	29.88	29.99	9.97	5	4	16
24	79	73	75	84	29.88	29.99	9.77	5	4	17

HOUSTON, TX JULY Temperatures



HOUSTON, TX JULY Precipitation





**JULY 2013
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

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Asheville, NC 28801-5001