



JULY 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	94	74	84	1	74	77	0	19		0		0.0	0.00	29.85	29.96	5.1	16	5.9	22	14	17	15	01	
02	94	74	84	1	72	76	0	19	BCFG BR	0		0.0	0.00	29.91	30.01	1.9	18	3.9	18	17	15	16	02	
03	94	73	84	1	71	74	0	19	TSRA RA	0		0.0	T	29.98	30.09	1.5	03	4.1	30	02	24	06	03	
04	91	72	82	-1	71	74	0	17	TS TSRA RA BR	0		0.0	0.48	30.04	30.15	5.1	07	6.5	32	08	25	08	04	
05	90	73	82	-1	71	73	0	17	TS TSRA RA BR	0		0.0	0.31	30.01	30.13	2.5	09	4.3	20	22	21	22	05	
06	89	72	81	-2	73	75	0	16	TS TSRA RA BR	0		0.0	0.01	29.91	30.04	3.2	12	5.2	20	11	15	13	06	
07	93	74	84	1	73	76	0	19	TS TSRA RA BR	0		0.0	0.08	29.89	30.01	3.6	18	4.4	30	14	28*	14	07	
08	92	74	83	0	72	76	0	18	BCFG	0		0.0	0.00	29.92	30.03	4.1	19	4.6	20	17	15	17	08	
09	95	74	85	2	71	75	0	20		0		0.0	0.00	29.91	30.03	4.4	17	5.3	18	12	15	13	09	
10	93	73	83	0	71	75	0	18	RA	0		0.0	T	29.93	30.04	4.4	19	5.2	22	18	16	16	10	
11	94	72	83	0	72	75	0	18	RA	0		0.0	T	29.98		3.5	16	4.8	22	16	18	15	11	
12	94	74	84	1	72	75	0	19		0		0.0	0.00	29.98	30.10	2.1	16	3.6	16	15	14	15	12	
13	96	77	87	4	72	76	0	22		0		0.0	0.00	29.93	30.05	2.0	16	4.3	23	16	20	12	13	
14	96	76	86	3	73	77	0	21		0		0.0	0.00	29.88	29.99	3.4	22	4.6	16	26	13	25	14	
15	89	75	82	-2	73	75	0	17	RA BR	0		0.0	0.06	29.85	29.97	2.3	30	4.8	22	35	17	34	15	
16	90	73	82	-2	73	76	0	17		0		0.0	0.00	29.83	29.95	1.7	15	3.0	22	17	16	14	16	
17	89	76	83	-1	75	77	0	18	TS TSRA RA BR	0		0.0	0.39	29.77	29.89	5.1	16	6.0	35*	17	24	18	17	
18	87	75	81	-3	75	77	0	16	RA BR	0		0.0	0.04	29.80	29.90	3.5	01	5.3	17	35	14	03	18	
19	85	72	79*	-5	71	74	0	14		0		0.0	0.00	29.86	29.98	6.0	04	6.5	14	05	12	04	19	
20	93	73	83	-1	74	76	0	18	RA BR	0		0.0	0.01	29.86	29.97	3.9	07	5.8	17	12	14	09	20	
21	96	77	87	3	75	78	0	22		0		0.0	0.00	29.88	29.99	2.1	16	3.2	17	15	14	15	21	
22	96	77	87	3	75	78	0	22		0		0.0	0.00	29.90	30.01	1.6	05	3.9	17	12	14	11	22	
23	95	76	86	2	73	76	0	21	TS TSRA RA	0		0.0	0.07	29.90	30.01	3.4	05	4.2	28	01	23	01	23	
24	94	73	84	0	72	76	0	19	TS RA	0		0.0	0.01	29.87	29.98	0.9	13	4.1	20	17	16	17	24	
25	95	74	85	1	72	76	0	20		0		0.0	0.00	29.88	29.99	2.4	18	4.7	22	16	18	15	25	
26	95	78	87	3	74	77	0	22		0		0.0	0.00	29.90	30.01	6.2	19	7.1	21	17	16	17	26	
27	97	77	87	3	74	77	0	22		0		0.0	0.00	29.93	30.03	5.5	19	6.0	18	15	14	16	27	
28	99*	77	88*	4	72	76	0	23		0		0.0	0.00	29.95	30.06	2.4	26	5.7	20	30	13	17	28	
29	92	74	83	-1	75	77	0	18	TS TSRA RA	0		0.0	0.03	29.93	30.05	1.3	31	4.5	24	03	18	03	29	
30	94	72*	83	-1	72	75	0	18		0		0.0	0.00	29.88	30.00	5.7	14	6.4	20	13	16	14	30	
31	94	73	84	0	74	77	0	19	TS TSRA RA FG BR	0		0.0	3.91	29.84	29.95	5.4	17	6.4	28	15	22	15	31	
93.1		74.3	83.7	☼	72.8	75.9	0.0	19.0	< MONTHLY AVERAGES TOTALS >			0.0	5.40	29.90	30.02	1.8	15	5.0	< MONTHLY AVERAGES					
-0.6		-0.8	-0.7		-----DEPARTURE FROM NORMAL -----						1.61	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3												
DEGREE DAYS									GREATEST 24-HR PRECIPITATION : 3.91 DATE : 31				SEA LEVEL PRESSURE				DATE		TIME					
MONTHLY									GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.19				05		0853					
TOTAL DEPARTURE									GREATEST SNOW DEPTH : 0 DATE :				MINIMUM : 29.83				18		0236					
SEASON TO DATE									NUMBER OF DAYS WITH ->				MAXIMUM TEMP >= 90 : 26		MINIMUM TEMP <= 32 : 0		PRECIPITATION >= 0.01 INCH : 12							
HEATING : 0 0 0 0									MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH : 4											
COOLING : 588 -13 1662 -111									THUNDERSTORMS : 10		HEAVY FOG : 0		SNOWFALL >= 1.0 INCH : 0											

JULY 2014
HOUSTON, TX

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX (KIAH)
JULY 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												01	0.00	0.00		
02													02												02	0.00	0.00		
03													03			T		T						03	T	T			
04													04						0.15	0.33				04	0.48	0.48			
05													05			T	0.31	T					05	0.31	0.31				
06													06			T	0.01	T					06	0.01	0.01				
07													07					T	0.08				07	0.08	0.08				
08													08										08	0.00	0.00				
09													09										09	0.00	0.00				
10													10										10	T	T				
11													11										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	T	T								15	0.06	0.06				
16													16										16	0.00	0.00				
17	0.01	T			0.19	0.05							17	T	0.10	0.01	T					T	17	0.39	0.39				
18			T		T	0.03							18										T	18	0.04	0.04			
19													19											19	0.00	0.00			
20													20										T	20	0.01	0.01			
21													21											21	0.00	0.00			
22													22											22	0.00	0.00			
23								0.01					23										0.02	0.04	23	0.07	0.07		
24													24				0.01	T						24	0.01	0.01			
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			0.03	T							29	0.03	0.03			
30													30											30	0.00	0.00			
31													31			T							0.01	0.90	2.57	0.43	31	3.91	3.91

* 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)	0.47	0.79	1.08	1.38	1.85	2.49	2.76	2.91	3.48	3.68	3.89	3.90
Ending Date	31	31	31	31	31	31	31	31	31	31	31	31
Ending Time (Hr/Min)	2240	2238	2242	2239	2249	2259	2311	2331	2307	2314	2342	2348

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

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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	10.00	10.00
02	7.00	10.00
03	9.00	10.00
04	3.00	10.00
05	5.00	10.00
06	4.00	10.00
07	7.00	10.00
08	10.00	10.00
09	10.00	10.00
10	10.00	10.00
11	10.00	10.00
12	7.00	10.00
13	10.00	10.00
14	10.00	10.00
15	10.00	10.00
16	10.00	10.00
17	5.00	10.00
18	7.00	10.00
19	8.00	10.00
20	2.50	10.00
21	7.00	10.00
22	8.00	10.00
23	6.00	10.00
24	10.00	10.00
25	10.00	10.00
26	8.00	10.00
27	10.00	10.00
28	10.00	10.00
29	9.00	10.00
30	10.00	10.00
31	0.75	10.00
AVGS	7.85	10.00
MINIMUM VISIBILITY (MILES)		
<= .25	<= 3.0	>= 7.0
0	3	24

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX JULY 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)		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	017	10.00		78	75	76	90	5	18	29.81	29.92	03	FEW	250	10.00		76	73	74	91	0	00	29.89	29.99
06	FEW	020	10.00		75	73	74	94	5	14	29.86	29.97	06	SCT	250	10.00		74	73	73	97	0	00	29.92	30.02
09	SCT	024	10.00		84	73	76	70	7	18	29.88	29.98	09	SCT	250	10.00		85	73	77	68	6	23	29.94	30.04
12	SCT	038	10.00		91	71	77	52	0	00	29.88	29.98	12	BKN	250	10.00		89	69	75	52	0	00	29.92	30.02
15	BKN	075	10.00		93	70	77	47	5	VR	29.84	29.94	15	SCT	250	10.00		91	72	78	54	11	13	29.88	29.98
18	BKN	250	10.00		86	75	78	70	13	15	29.82	29.93	18	BKN	090	7.00	-TSRA	76	73	74	91	7	14	29.87	29.98
21	SCT	250	10.00		83	74	77	74	8	17	29.85	29.95	21	SCT	250	10.00		80	75	77	85	3	18	29.88	29.98
24	SCT	250	10.00		80	75	77	85	0	00	29.90	30.00	24	SCT	250	10.00		79	74	76	85	6	19	29.89	30.00
SUNRISE: 0524					JUL 02				SUNSET: 1927				SUNRISE: 0527					JUL 08				SUNSET: 1926			
03	FEW	250	10.00		75	74	74	96	0	00	29.88	29.99	03	FEW	250	10.00		77	74	75	90	0	00	29.89	29.99
06	FEW	250	8.00		74	74	74	100	0	00	29.90	30.01	06	SCT	250	10.00	BCFG	74	74	74	100	0	00	29.94	30.05
09	SCT	250	10.00		84	74	77	72	3	22	29.92	30.02	09	FEW	020	10.00		86	74	78	67	10	22	29.94	30.05
12	BKN	250	10.00		90	69	76	50	0	00	29.95	30.05	12	SCT	250	10.00		90	71	77	54	0	00	29.95	30.06
15	BKN	045	10.00		93	70	77	47	6	10	29.91	30.02	15	BKN	250	10.00		88	72	77	59	9	23	29.92	30.03
18	SCT	250	10.00		88	71	76	57	8	19	29.90	30.00	18	BKN	250	10.00		90	72	77	56	8	17	29.90	30.01
21	SCT	250	10.00		83	72	75	70	5	20	29.91	30.02	21	BKN	250	10.00		82	73	76	74	5	18	29.91	30.01
24	SCT	250	10.00		80	73	75	79	5	19	29.94	30.05	24	SCT	250	10.00		80	75	77	85	0	00	29.93	30.03
SUNRISE: 0525					JUL 03				SUNSET: 1926				SUNRISE: 0527					JUL 09				SUNSET: 1926			
03	FEW	250	10.00		77	73	74	88	0	00	29.94	30.04	03	SCT	250	10.00		77	74	75	90	0	00	29.94	30.04
06	SCT	250	10.00		77	74	75	90	3	36	29.97	30.08	06	BKN	250	10.00		76	73	74	91	0	00	29.94	30.04
09	SCT	250	10.00		86	74	78	67	5	35	30.01	30.12	09	BKN	250	10.00		85	72	76	65	8	21	29.97	30.08
12	SCT	048	10.00		91	71	77	52	0	00	29.98	30.09	12	SCT	250	10.00		91	68	75	47	0	00	29.97	30.07
15	BKN	250	10.00		83	68	73	61	21	06	29.95	30.06	15	SCT	250	10.00		93	67	75	42	10	15	29.90	30.01
18	OVC	250	9.00	-RA	75	71	72	88	0	00	29.95	30.06	18	SCT	250	10.00		89	72	77	57	11	11	29.87	29.98
21	OVC	250	10.00		75	68	70	79	5	02	30.03	30.14	21	FEW	250	10.00		84	72	76	67	7	18	29.90	30.00
24	BKN	220	10.00		73	71	72	94	5	17	30.02	30.12	24	FEW	250	10.00		80	74	76	82	5	20	29.93	30.03
SUNRISE: 0525					JUL 04				SUNSET: 1926				SUNRISE: 0528					JUL 10				SUNSET: 1926			
03	BKN	210	10.00		73	71	72	94	5	32	30.00	30.11	03	FEW	250	10.00		77	74	75	90	0	00	29.91	30.01
06	BKN	028	10.00		72	70	71	94	0	00	30.06	30.17	06	FEW	250	10.00		74	73	73	97	0	00	29.93	30.03
09	BKN	170	10.00		80	71	74	74	7	07	30.09	30.19	09	SCT	250	10.00		85	74	77	70	9	20	29.98	30.08
12	FEW	031	10.00		87	71	76	59	9	06	30.08	30.19	12	BKN	250	10.00		91	68	75	47	8	22	29.95	30.06
15	BKN	250	10.00		90	72	77	56	9	05	30.03	30.14	15	BKN	250	10.00		92	69	76	47	8	17	29.89	29.99
18	BKN	250	10.00		83	69	74	63	10	14	30.02	30.13	18	BKN	250	10.00		88	70	76	55	11	18	29.90	30.00
21	SCT	210	9.00		74	73	73	97	0	00	30.03	30.15	21	FEW	250	10.00		82	70	74	67	3	19	29.95	30.05
24	SCT	250	4.00	BR	74	71	72	91	5	04	30.03	30.14	24	SCT	250	10.00		76	69	71	79	0	00	29.98	30.09
SUNRISE: 0526					JUL 05				SUNSET: 1926				SUNRISE: 0528					JUL 11				SUNSET: 1925			
03	SCT	200	5.00	BR	74	71	72	91	3	02	30.03	30.14	03	SCT	250	10.00		74	69	71	85	0	00	29.96	30.07
06	BKN	190	8.00		74	70	71	88	6	05	30.06	30.17	06	FEW	250	10.00		72	69	70	91	6	05	29.98	30.09
09	SCT	250	10.00		80	70	73	71	8	13	30.08	30.19	09	SCT	250	10.00		86	75	78	70	3	VR	30.03	30.13
12	SCT	250	10.00		88	72	77	59	7	10	30.06	30.16	12	SCT	250	10.00		92	71	77	51	8	19	30.02	30.13
15	BKN	120	7.00	-TSRA	77	70	72	79	8	22	30.03	30.15	15	BKN	250	10.00		93	74	79	54	11	15	29.98	30.08
18	SCT	250	10.00		80	73	75	79	0	00	29.98	30.09	18	BKN	250	10.00		88	71	76	57	3	20	29.96	30.06
21	FEW	160	10.00		74	73	73	97	0	00	29.97	30.08	21	SCT	250	10.00		84	70	74	63	6	17	30.01	30.11
24	FEW	250	9.00		73	72	72	96	0	00	29.97	30.07	24	FEW	250	10.00		80	73	75	79	0	00	30.01	30.11
SUNRISE: 0526					JUL 06				SUNSET: 1926				SUNRISE: 0529					JUL 12				SUNSET: 1925			
03	FEW	250	6.00	BR	72	71	71	97	0	00	29.95	30.06	03	FEW	250	10.00		75	73	74	94	0	00	30.00	30.11
06	FEW	250	5.00	BR	73	71	72	94	0	00	29.96	30.07	06	SCT	250	7.00		74	73	73	97	0	00	30.03	30.14
09	SCT	250	10.00		83	73	76	72	7	18	29.98	30.09	09	SCT	250	9.00		84	75	78	74	0	00	30.06	30.17
12	SCT	250	10.00		87	74	78	65	7	09	29.95	30.06	12	SCT	250	10.00		91	72	78	54	0	00	30.05	30.15
15	BKN	110	10.00	TS	85	70	75	61	14	34	29.90	30.01	15	BKN	250	10.00		93	70	77	47	0	00	29.98	30.09
18	BKN	250	10.00		82	74	76	77	9	14	29.87	29.98	18	SCT	250	10.00		92	69	76	47	6	19	29.93	30.04
21	SCT	250	10.00		80	73	75	79	5	18	29.90	30.00	21	SCT	250	10.00		85	71	75	63	6	17	29.95	30.05
24	SCT	250	10.00		77	73	74	88	5	18	29.90	30.01	24	BKN	250	10.00		81	73	75	77	3	21	29.96	30.07

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX
JULY 2014

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
SUNRISE: 0529 JUL 13 SUNSET: 1925																									
03	SCT	250	10.00		78	74	75	87	0	00	29.95	30.06	03	OVC	024	8.00		73	70	71	90	7	03	29.85	29.96
06	FEW	250	10.00		78	75	76	90	0	00	29.97	30.07	06	OVC	024	10.00		72	69	70	91	6	02	29.88	29.98
09	SCT	250	10.00		86	72	76	63	6	26	29.98	30.10	09	OVC	025	10.00		76	69	71	79	8	06	29.90	30.01
12	SCT	250	10.00		92	72	78	52	6	VR	29.98	30.08	12	BKN	023	10.00		82	71	74	69	8	01	29.90	30.01
15	BKN	250	10.00		94	69	77	44	0	00	29.91	30.01	15	OVC	045	10.00		85	73	77	68	8	04	29.87	29.98
18	BKN	250	10.00		87	69	75	55	5	17	29.90	30.00	18	SCT	250	10.00		84	73	76	70	7	01	29.84	29.94
21	BKN	170	10.00		80	70	73	71	5	14	29.90	30.01	21	SCT	250	10.00		78	72	74	82	6	05	29.87	29.97
24	SCT	150	10.00		80	72	75	76	6	18	29.91	30.01	24	BKN	250	10.00		76	72	73	88	5	05	29.88	29.99
SUNRISE: 0530 JUL 14 SUNSET: 1925																									
03	SCT	250	10.00		79	74	76	85	6	20	29.91	30.01	03	OVC	020	10.00		74	71	72	91	7	04	29.87	29.98
06	BKN	250	10.00		78	74	75	87	0	00	29.92	30.03	06	BKN	250	5.00	BR	73	71	72	94	6	03	29.89	30.00
09	BKN	250	10.00		86	75	78	70	7	24	29.94	30.04	09	SCT	250	7.00		80	73	75	79	5	04	29.90	30.01
12	BKN	250	10.00		90	72	77	56	3	VR	29.92	30.02	12	BKN	024	8.00		88	76	79	68	6	05	29.89	30.00
15	BKN	250	10.00		96	70	78	43	5	19	29.85	29.96	15	BKN	250	10.00		90	74	79	59	6	06	29.84	29.94
18	BKN	180	10.00		89	72	77	57	5	27	29.82	29.92	18	BKN	250	10.00		88	76	79	68	10	11	29.82	29.92
21	SCT	250	10.00		85	73	77	68	6	18	29.84	29.94	21	BKN	250	10.00		82	77	78	85	3	12	29.85	29.95
24	SCT	250	10.00		81	74	76	79	5	19	29.88	29.98	24	SCT	250	10.00		79	77	78	94	0	00	29.87	29.98
SUNRISE: 0531 JUL 15 SUNSET: 1924																									
03	SCT	250	10.00		79	74	76	85	6	20	29.86	29.96	03	SCT	250	9.00		80	77	78	90	0	00	29.86	29.97
06	FEW	250	10.00		79	75	76	88	5	24	29.86	29.96	06	SCT	250	7.00		77	76	76	96	0	00	29.90	30.01
09	BKN	250	10.00		83	73	76	72	8	27	29.91	30.01	09	BKN	020	10.00		86	76	79	72	0	00	29.94	30.04
12	OVC	090	10.00		76	73	74	91	7	36	29.92	30.03	12	SCT	250	10.00		92	73	78	54	0	00	29.92	30.03
15	BKN	250	10.00		84	71	75	65	5	33	29.84	29.95	15	BKN	070	10.00		93	72	78	50	0	00	29.86	29.97
18	BKN	250	10.00		84	70	74	63	5	05	29.81	29.92	18	SCT	035	10.00		90	77	81	66	11	14	29.84	29.94
21	SCT	250	10.00		77	73	74	88	0	00	29.85	29.96	21	BKN	250	10.00		86	77	80	75	6	18	29.86	29.97
24	BKN	250	10.00		75	72	73	90	0	00	29.85	29.95	24	SCT	250	10.00		83	76	78	79	7	23	29.90	30.00
SUNRISE: 0531 JUL 16 SUNSET: 1924																									
03	BKN	250	10.00		75	72	73	90	0	00	29.86	29.97	03	FEW	250	10.00		78	75	76	90	0	00	29.88	29.98
06	BKN	250	10.00		75	73	74	94	0	00	29.87	29.98	06	SCT	250	8.00		77	75	76	94	0	00	29.92	30.02
09	BKN	170	10.00		83	74	77	74	0	00	29.90	30.00	09	SCT	018	10.00		84	76	78	77	6	25	29.95	30.06
12	BKN	170	10.00		88	72	77	59	3	VR	29.88	29.98	12	SCT	250	10.00		90	74	79	59	5	05	29.93	30.04
15	BKN	250	10.00		90	73	78	58	8	12	29.82	29.93	15	BKN	080	10.00		96	73	79	47	3	VR	29.89	29.99
18	BKN	250	10.00		85	72	76	65	7	18	29.80	29.91	18	SCT	250	10.00		92	74	79	56	7	03	29.85	29.96
21	BKN	250	10.00		80	73	75	79	5	18	29.81	29.91	21	BKN	250	10.00		85	76	79	75	14	11	29.90	30.00
24	SCT	250	10.00		76	73	74	91	3	17	29.83	29.93	24	BKN	250	10.00		80	74	76	82	0	00	29.92	30.02
SUNRISE: 0532 JUL 17 SUNSET: 1924																									
03	SCT	250	10.00		78	74	75	87	5	16	29.81	29.92	03	SCT	250	10.00		78	75	76	90	0	00	29.90	30.01
06	BKN	120	10.00		77	75	76	94	6	15	29.81	29.92	06	BKN	250	10.00		79	76	77	90	3	33	29.94	30.04
09	BKN	150	10.00		84	75	78	74	5	22	29.82	29.92	09	BKN	032	10.00		85	74	77	70	3	06	29.96	30.06
12	OVC	150	10.00		79	74	76	85	7	16	29.80	29.90	12	SCT	040	10.00		93	73	79	52	7	05	29.94	30.04
15	BKN	150	9.00		78	76	77	93	8	12	29.77	29.88	15	SCT	050	10.00		95	70	77	44	9	06	29.88	29.98
18	OVC	180	10.00		83	76	78	79	7	16	29.73	29.84	18	SCT	250	10.00		89	71	76	55	0	00	29.85	29.96
21	BKN	160	10.00		83	75	77	77	7	17	29.76	29.86	21	BKN	250	10.00		84	72	76	67	5	05	29.91	30.02
24	OVC	110	9.00	-RA	81	77	78	88	0	00	29.76	29.87	24	BKN	250	10.00	TS	78	73	75	85	5	10	29.88	29.98
SUNRISE: 0532 JUL 18 SUNSET: 1923																									
03	BKN	250	10.00		80	77	78	90	0	00	29.73	29.84	03	BKN	250	10.00		75	72	73	90	0	00	29.87	29.98
06	OVC	100	7.00		79	76	77	90	3	27	29.75	29.85	06	SCT	250	10.00		75	72	73	90	3	33	29.90	30.00
09	OVC	085	10.00		82	77	78	85	9	33	29.81	29.91	09	FEW	045	10.00		82	72	75	72	5	VR	29.92	30.03
12	OVC	140	10.00	-RA	84	75	78	74	5	02	29.82	29.92	12	SCT	033	10.00		90	73	78	58	6	35	29.90	30.00
15	OVC	150	10.00		84	74	77	72	10	02	29.79	29.90	15	SCT	035	10.00		90	72	77	56	3	07	29.85	29.95
18	BKN	170	10.00		83	75	77	77	7	13	29.77	29.87	18	FEW	030	10.00		88	72	77	59	6	13	29.82	29.92
21	OVC	026	10.00		77	72	74	85	8	05	29.83	29.94	21	BKN	045	10.00		83	73	76	72	5	19	29.86	29.97
24	OVC	025	10.00		75	69	71	82	8	04	29.87	29.98	24	BKN	250	10.00		78	72	74	82	0	00	29.89	30.00

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX JULY 2014

KIAH

WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	JUL 25	TEMPERATURE °F			WIND SPEED (MPH)	DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		
						DRY BULB	DEW POINT	WET BULB			RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL
SUNRISE: 0536 JUL 25 SUNSET: 1920													
03	SCT	250	10.00			75	73	74	94	0	00	29.89	29.99
06	FEW	250	10.00			75	74	74	96	0	00	29.91	30.01
09	BKN	250	10.00			85	74	77	70	7	28	29.94	30.04
12	SCT	045	10.00			90	70	76	52	3	VR	29.91	30.01
15	SCT	085	10.00			93	67	75	42	7	13	29.85	29.96
18	SCT	250	10.00			90	73	78	58	14	12	29.84	29.94
21	SCT	250	10.00			84	73	76	70	6	17	29.88	29.98
24	SCT	250	10.00			81	75	77	82	3	21	29.90	30.01
SUNRISE: 0537 JUL 26 SUNSET: 1919													
03	FEW	250	10.00			80	76	77	87	3	21	29.88	29.98
06	SCT	250	10.00			78	75	76	90	3	18	29.91	30.02
09	BKN	250	8.00			86	75	78	70	8	22	29.96	30.06
12	SCT	250	10.00			91	71	77	52	6	22	29.93	30.03
15	BKN	085	10.00			91	73	78	56	7	VR	29.88	29.98
18	BKN	250	10.00			89	73	78	59	14	17	29.86	29.96
21	BKN	250	10.00			84	74	77	72	8	18	29.92	30.02
24	SCT	250	10.00			81	75	77	82	7	19	29.92	30.03
SUNRISE: 0537 JUL 27 SUNSET: 1919													
03	FEW	250	10.00			80	76	77	87	5	19	29.90	30.01
06	BKN	250	10.00			79	76	77	90	0	00	29.94	30.05
09	SCT	023	10.00			87	74	78	65	8	23	29.97	30.08
12	FEW	047	10.00			93	70	77	47	7	19	29.96	30.06
15	FEW	065	10.00			97	68	77	39	5	18	29.91	30.01
18	SCT	055	10.00			92	73	78	54	9	18	29.88	29.98
21	SCT	250	10.00			85	75	78	72	9	18	29.93	30.04
24	SCT	250	10.00			82	76	78	82	6	21	29.95	30.06
SUNRISE: 0538 JUL 28 SUNSET: 1918													
03	FEW	250	10.00			80	75	77	85	0	00	29.94	30.04
06	SCT	250	10.00			78	76	77	93	0	00	29.98	30.09
09	SCT	250	10.00			86	74	78	67	9	24	30.02	30.13
12	SCT	250	10.00			92	72	78	52	5	VR	30.00	30.10
15	SCT	250	10.00			97	68	77	39	7	34	29.94	30.05
18	SCT	250	10.00			97	63	74	33	6	33	29.89	30.00
21	BKN	250	10.00			87	73	77	63	9	17	29.91	30.02
24	BKN	250	10.00			83	70	74	65	5	25	29.95	30.05
SUNRISE: 0539 JUL 29 SUNSET: 1917													
03	BKN	250	10.00			81	76	77	85	7	26	29.93	30.03
06	BKN	250	10.00			80	76	77	87	3	24	29.95	30.06
09	BKN	150	10.00			86	74	78	67	8	33	29.98	30.09
12	OVC	250	10.00			91	75	80	59	8	01	29.96	30.06
15	BKN	110	10.00			79	74	76	85	3	17	29.97	30.08
18	BKN	250	10.00			84	75	78	74	3	13	29.92	30.03
21	SCT	250	10.00			77	74	75	90	5	07	29.91	30.02
24	FEW	020	10.00			75	74	74	96	0	00	29.94	30.04
SUNRISE: 0539 JUL 30 SUNSET: 1917													
03	FEW	250	10.00			74	72	73	94	0	00	29.93	30.03
06	SCT	250	10.00			72	71	71	97	0	00	29.94	30.04
09	BKN	250	10.00			84	73	76	70	7	14	29.95	30.05
12	BKN	250	10.00			90	70	76	52	9	17	29.92	30.03
15	BKN	250	10.00			92	70	77	49	9	13	29.86	29.97
18	BKN	250	10.00			87	71	76	59	16	14	29.84	29.95
21	BKN	250	10.00			82	73	76	74	13	15	29.85	29.96
24	SCT	250	10.00			80	74	76	82	8	17	29.87	29.98

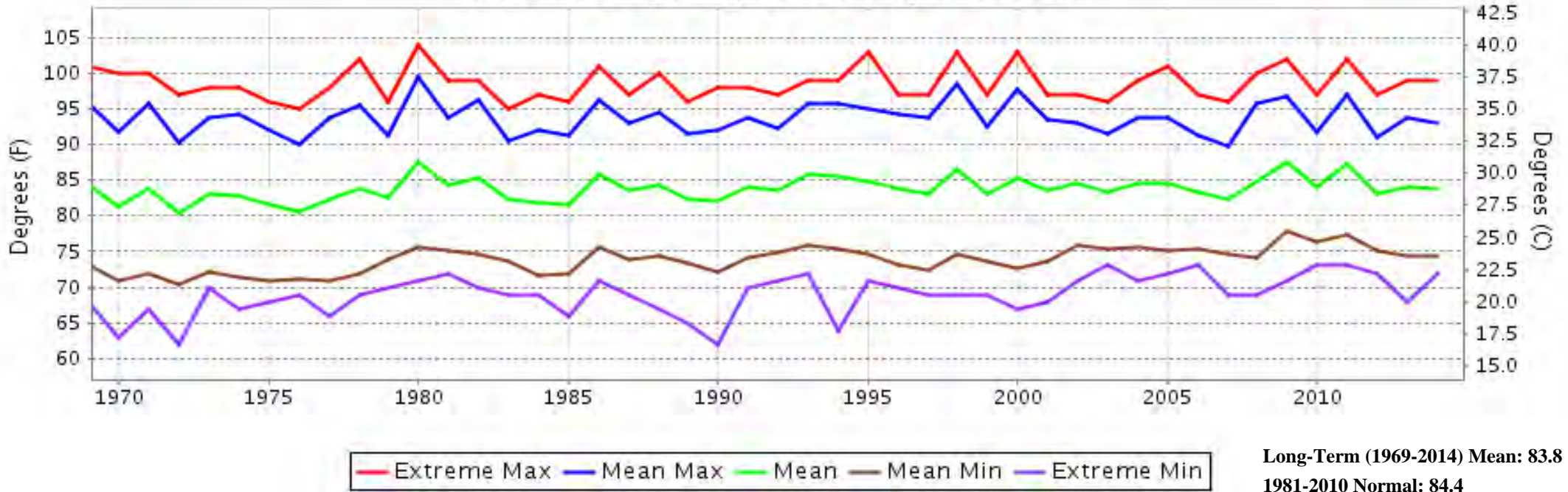
HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	JUL 31	TEMPERATURE °F			WIND SPEED (MPH)	DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		
						DRY BULB	DEW POINT	WET BULB			RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL
SUNRISE: 0540 JUL 31 SUNSET: 1916													
03	SCT	250	10.00			79	74	76	85	3	18	29.83	29.94
06	BKN	250	10.00			79	74	76	85	0	00	29.86	29.97
09	BKN	220	10.00			83	74	77	74	7	16	29.88	29.99
12	OVC	250	10.00			88	72	77	59	3	21	29.88	29.98
15	BKN	120	10.00			94	72	78	49	0	00	29.81	29.91
18	BKN	130	10.00			88	73	77	61	9	17	29.78	29.88
21	SCT	046	10.00			82	77	78	85	9	19	29.79	29.89
24	OVC	035	5.00			73	73	73	100	8	17	29.87	29.97
TS -RA BR													

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.

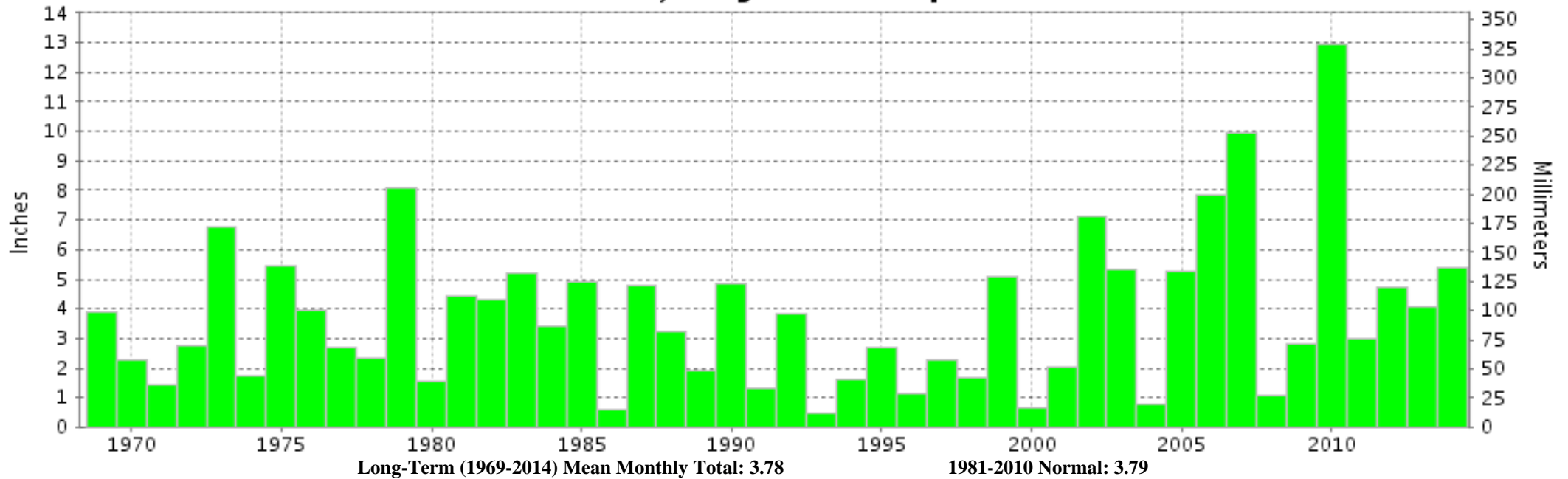
SUMMARY BY HOUR

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	73	75	87	29.91	30.01	9.60	3	4	18
02	77	73	75	88	29.90	30.00	9.65	3	4	18
03	77	74	75	90	29.90	30.00	9.61	2	5	19
04	76	73	74	91	29.90	30.01	9.58	2	5	18
05	76	73	74	92	29.91	30.02	9.71	1	7	18
06	76	73	74	93	29.92	30.03	9.19	2	5	17
07	78	74	76	88	29.94	30.04	9.27	4	3	18
08	81	75	77	81	29.95	30.05	9.52	6	3	21
09	84	74	77	71	29.95	30.06	9.81	6	3	22
10	86	73	77	65	29.95	30.06	9.87	6	3	21
11	88	72	77	60	29.95	30.05	9.77	6	4	19
12	89	72	77	58	29.94	30.04	9.94	5	4	16
13	90	71	77	56	29.92	30.03	9.87	6	4	14
14	90	71	77	55	29.90	30.01	9.94	6	4	15
15	90	71	77	55	29.89	30.00	9.87	7	4	13
16	89	71	76	58	29.88	29.98	9.87	7	3	14
17	88	72	77	60	29.87	29.97	10.00	8	4	13
18	87	72	76	63	29.87	29.97	9.87	8	4	13
19	85	72	76	67	29.87	29.98	9.74	9	4	12
20	82	73	76	74	29.88	29.99	10.00	7	4	13
21	82	73	76	76	29.89	30.00	9.97	6	3	14
22	80	73	75	79	29.91	30.01	9.45	5	3	17
23	79	73	75	81	29.91	30.02	9.51	5	3	15
24	78	73	75	85	29.91	30.02	9.58	4	3	18

HOUSTON, TX JULY Temperatures



HOUSTON, TX JULY Precipitation





**JULY 2014
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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TDD : (828) 271-4010
or Email : ncdc.orders@noaa.gov

NOAA\National Climatic Data Center
Attn: User Engagement & Services Branch
151 Patton Avenue
Asheville, NC 28801-5001