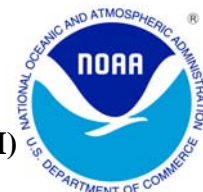




JULY 2010 LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

HOUSTON, TX
G BUSH INTERCONTINENTAL AP/HOUSTON AP (KIAH)
 Lat:29° 59'N Long: 95° 21'W Elev (Ground) 94 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			
20	21	22	23	24																				
01	84	77	81	-2	76	77	0	16	RA BR	0		0.0	0.37	29.86	29.97	12.4	07	12.4	25	11	22	11	01	
02	84	75	80	-3	76	77	0	15	TS TSRA RA FG BR	0		0.0	5.43	29.85	29.97	6.0	09	7.6	30	20	22	21	02	
03	87	74	81	-2	76	77	0	16	TS TSRA RA BR	0		0.0	0.15	29.83	29.95	5.7	13	6.3	38	15	32	15	03	
04	91	75	83	0	76	78	0	18	RA	0		0.0	0.06	29.78	29.90	7.4	13	7.7	25	13	18	14	04	
05	95	77	86	3	76	79	0	21	RA	0		0.0	0.31	29.73	29.85	1.2	14	2.2	25	13	21	13	05	
06	95	78	87	4	76	79	0	22		0		0.0	0.00	29.73	29.85	3.1	06	5.1	25	06	15	13	06	
07	86	76	81	-2	77	78	0	16	TS TSRA RA FG BR	0		0.0	2.32	29.80	29.90	5.1	08	7.1	23	12	17	11	07	
08	83	76	80*	-3	76	77	0	15	TS TSRA RA BR	0		0.0	0.59	29.86	29.97	6.7	10	7.4	28	12	20	12	08	
09	91	76	84	1	75	77	0	19		0		0.0	0.00	29.89	30.00	5.8	12	6.4	21	13	16	14	09	
10	94	76	85	2	73	77	0	20		0		0.0	0.00	29.88	30.00	2.4	19	2.9	14	19	12	15	10	
11	94	78	86	3	73	77	0	21		0		0.0	0.00	29.81	29.93	4.4	20	5.0	18	19	12	19	11	
12	94	77	86	3	74	78	0	21		0		0.0	0.00	29.75	29.87	6.8	19	7.0	31	21	16	17	12	
13	94	80	87	4	73	77	0	22		0		0.0	0.00	29.80	29.91	8.7	18	9.0	23	17	17	17	13	
14	96	79	88	5	74	78	0	23		0		0.0	0.00	29.90	30.00	6.7	18	6.9	17	17	13	16	14	
15	96	77	87	3	75	79	0	22		0		0.0	0.00	29.91	30.02	3.1	17	4.3	20	03	15	12	15	
16	97	79	88	4	74	78	0	23		0		0.0	0.00	29.88	30.00	0.8	19	3.6	20	16	12	13	16	
17	96	74	85	1	74	77	0	20	TS TSRA RA FG+ FG BR	0		0.0	2.23	29.88	29.99	2.1	22	4.0	40	09	31	09	17	
18	91	76	84	0	77	78	0	19	TS TSRA RA BR	0		0.0	0.47	29.86	29.98	1.0	02	3.4	17	15	16	15	18	
19	84	77	81	-3	77	78	0	16	RA	0		0.0	0.02	29.88	29.99	3.5	13	4.3	24	18	15	16	19	
20	92	77	85	1	76	78	0	20	TS RA	0		0.0	0.02	29.90	30.01	4.1	12	4.8	21	08	16	07	20	
21	90	76	83	-1	77	79	0	18	TS TSRA RA	0		0.0	0.11	29.91	30.03	5.5	11	6.6	28	10	21	11	21	
22	91	78	85	1	77	79	0	20	TS TSRA RA	0		0.0	T	29.89	30.00	7.3	10	8.4	24	14	20	14	22	
23	92	76	84	0	76	78	0	19		0		0.0	0.00	29.91	30.02	7.6	13	8.0	23	14	18	14	23	
24	94	74	84	0	73	76	0	19	TS RA	0		0.0	0.02	29.91	30.02	2.0	08	3.8	55*	05	44*	05	24	
25	96	73	85	1	72	76	0	20		0		0.0	0.00	29.87	29.99	1.2	06	3.2				15	25	
26	93	76	85	1	75	77	0	20	TS RA	0		0.0	0.27	29.85	29.97	1.3	11	2.7	32	16	24	11	26	
27	89	73*	81	-3	75	77	0	16	TS TSRA RA BR	0		0.0	0.55	29.91	30.01	3.4	14	5.2	32	14	28	16	27	
28	89	77	83	-1	75	77	0	18	RA	0		0.0	T	30.00	30.10	5.2	13	5.8	32	17	22	18	28	
29	92	76	84	0	76	78	0	19	TS RA	0		0.0	T	30.01	30.12	2.4	13	3.2	23	22	15	11	29	
30	96	75	86	2	75	78	0	21	MIFG	0		0.0	0.00	29.88	30.01	2.3	25	2.9	17	31	10	26	30	
31	97*	78	88*	4	72	76	0	23		0		0.0	0.00	29.79	29.92	4.5	25	4.6	20	29	12	27	31	
91.7		76.3	84.0	Σ	75.1	77.6	0.0	19.3	< MONTHLY AVERAGES TOTALS >			0.0	12.92	29.86	29.98	3.1	13	5.5	< MONTHLY AVERAGES					
-1.9		2.8	0.4		-----DEPARTURE FROM NORMAL -----						9.74	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3												
DEGREE DAYS									GREATEST 24-HR PRECIPITATION : 5.45 DATE : 01-02				SEA LEVEL PRESSURE				DATE		TIME					
MONTHLY				SEASON TO DATE					GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.18				29		1026					
TOTAL DEPARTURE				TOTAL DEPARTURE					GREATEST SNOW DEPTH : 0 DATE :				MINIMUM : 29.79				06		1753					
HEATING :		0		0		0		0		NUMBER OF		MAXIMUM TEMP >= 90 : 23		MINIMUM TEMP <= 32 : 0		PRECIPITATION >= 0.01 INCH: 15								
COOLING :		598		25		1844		212		->		MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH: 11								
										THUNDERSTORMS		: 13		HEAVY FOG		: 1		SNOWFALL >= 1.0 INCH : 0						

**JULY 2010
HOUSTON, TX**

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX (KIAH)
JULY 2010

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	T		T	0.04	0.03					T	T	T	01	0.01	0.19	0.06	T		0.01	0.01	0.02	T			01	0.37	0.37	
02			0.10	0.10	0.03	0.11	0.06	0.48	0.43	0.08	T	T	02	0.82	1.39	0.65	0.60	0.44	0.08	0.06	T		T		02	5.43	5.43	
03											T	T	03	0.04	0.10	0.01									03	0.15	0.15	
04													04	0.05	0.01										04	0.06	0.06	
05								T	T				05					T	0.31						05	0.31	0.31	
06													06												06	0.00	0.00	
07										T	T	0.06	07	T	T	0.62	0.95	0.45	0.11	T	0.11	0.02			07	2.32	2.32	
08								0.20	0.05	0.01	T	0.12	08	0.03	0.05	0.09	0.04								08	0.59	0.59	
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													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							2.11	0.05	0.06	0.01			17	2.23	2.23
18													18		T	0.37	T	T	0.06	0.04	T				18	0.47	0.47	
19						T	T	0.01	0.01	T	T	T	19		T	T	T	T							19	0.02	0.02	
20													20	0.02	T	T									20	0.02	0.02	
21													21	0.06	0.04	T				0.01					21	0.11	0.11	
22													22		T	T	T								22	T	T	
23													23												23	0.00	0.00	
24													24								0.02				24	0.02	0.02	
25													25												25	0.00	0.00	
26													26			0.23	T	0.01	0.03	T					26	0.27	0.27	
27													27	0.40	0.15										27	0.55	0.55	
28												T	28	T											28	T	T	
29													29						T						29	T	T	
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.

Water Equivalent of snow on the ground is reported only when the depth is 2 or more inches.

NORMALS ARE FOR THE YEARS 1971-2000

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 2010

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).

Satellite data are used to derive cloudiness above 12,000 feet. Effective Cloud Amount is based on the cloud cover and the transparency of the clouds within the satellite field of view (approx. 31x31 miles).

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet. Both ceilometer and satellite data must be present to compute Sky Condition. 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.

Dew Point is the temperature to which the air must be cooled to achieve 100% relative humidity. Wet Bulb is the temperature the air would have if cooled to saturation at constant pressure by evaporation of water into it.

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

ADDITIONAL NOTES:

Date	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			Sky Cover	Satellite	Sky Cover	Satellite			
01							1.50	10.00	
02							0.50	10.00	
03							1.50	10.00	
04							6.00	10.00	
05							7.00	10.00	
06							9.00	10.00	
07							1.00	10.00	
08							6.00	10.00	
09							7.00	10.00	
10							8.00	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							9.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							9.00	10.00	
17							1.25	10.00	
18							3.00	10.00	
19							10.00	10.00	
20							5.00	10.00	
21							8.00	10.00	
22							9.00	10.00	
23							8.00	10.00	
24							7.00	10.00	
25							9.00	10.00	
26							5.00	10.00	
27							0.25	10.00	
28							10.00	10.00	
29							8.00	10.00	
30							8.00	10.00	
31							8.00	10.00	
MONTHLY AVGS							6.61	10.00	
SUNSHINE (Minutes)									
Total : 0					Possible : 25768				
Percent Possible : 0									
NUMBER OF DAYS WITH :									
SKY CONDITION									
Clear		Partly CLDY			Cloudy			Missing	
MINIMUM VISIBILITY (MILES)									
<= .25			<= 3.0				>= 7.0		
1			7				20		

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX
JULY 2010

KIAH

WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)					
			Observation Time (LST)	Eff Cld Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg				STATION	SEA LEVEL		Observation Time (LST)	Eff Cld Amt Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0524 JUL 01						SUNSET: 1927						SUNRISE: 0527 JUL 07						SUNSET: 1926											
03	OVC	110			10.00	-RA	78	75	76	91	13	09	29.83	29.93	03	SCT	250			10.00		80	77	78	91	6	02	29.75	29.85
06	OVC	013			8.00		77	76	76	97	11	05	29.85	29.96	06	BKN	250			10.00		79	77	78	94	5	03	29.76	29.86
09	OVC	016			10.00		80	76	77	88	18	06	29.88	29.98	09	BKN	250			10.00		84	77	79	80	7	VR	29.80	29.90
12	OVC	060			10.00		83	76	78	80	13	08	29.89	29.99	12	BKN	070			8.00		80	78	79	94	9	06	29.82	29.92
15	BKN	060			10.00		78	76	77	94	8	11	29.88	29.99	15	OVC	055		-TSRA	BR	80	77	78	91	0	00	29.80	29.91	
18	OVC	110			10.00	RA	78	76	77	94	13	09	29.86	29.97	18	OVC	100			10.00		78	76	77	94	10	13	29.80	29.91
21	OVC	130			10.00		78	76	77	94	9	07	29.87	29.98	21	BKN	250		-RA		79	77	78	94	9	10	29.82	29.92	
24	OVC	022			10.00		78	77	77	97	13	09	29.89	29.99	24	BKN	250			10.00		78	76	77	94	9	09	29.84	29.94
SUNRISE: 0524 JUL 02						SUNSET: 1927						SUNRISE: 0527 JUL 08						SUNSET: 1926											
03	OVC	070			7.00	RA	76	75	75	97	0	00	29.86	29.97	03	BKN	130			8.00		78	76	77	94	7	05	29.82	29.93
06	OVC	065			2.00	+RA BR	76	75	75	97	6	15	29.87	29.98	06	BKN	060			7.00		79	75	76	88	11	07	29.84	29.94
09	OVC	060			3.00	+RA BR	78	76	77	94	10	08	29.90	30.01	09	BKN	095			10.00		77	75	76	94	7	05	29.88	29.99
12	OVC	030			10.00		84	80	81	88	14	09	29.86	29.96	12	OVC	090		RA	BR	77	75	76	94	9	12	29.90	30.01	
15	SCT	027			2.00		75	74	74	97	8	15	29.89	30.00	15	BKN	080			10.00		80	76	77	88	8	14	29.87	29.98
18	OVC	110			9.00	-RA	77	75	76	94	0	00	29.85	29.96	18	BKN	250			10.00		82	77	78	85	9	13	29.83	29.94
21	OVC	034			10.00		78	76	77	94	7	09	29.84	29.94	21	BKN	250			10.00		80	76	77	88	7	11	29.88	29.99
24	OVC	034			7.00		78	77	77	97	6	09	29.84	29.94	24	BKN	250			10.00		79	77	78	94	6	07	29.89	30.00
SUNRISE: 0525 JUL 03						SUNSET: 1926						SUNRISE: 0527 JUL 09						SUNSET: 1926											
03	BKN	250			6.00	BR	77	76	76	97	3	10	29.82	29.93	03	BKN	250			10.00		77	76	76	97	3	05	29.88	29.99
06	SCT	250			7.00		78	77	77	97	0	00	29.86	29.96	06	SCT	250			7.00		77	76	76	97	3	04	29.91	30.01
09	BKN	110			10.00		84	79	80	85	10	12	29.86	29.97	09	BKN	250			10.00		84	78	80	82	10	13	29.94	30.05
12	BKN	250			10.00		83	77	79	82	13	14	29.85	29.96	12	SCT	250			10.00		90	76	80	64	11	12	29.93	30.03
15	OVC	250			10.00		81	77	78	88	5	VR	29.85	29.96	15	SCT	250			10.00		90	71	77	54	10	15	29.88	29.99
18	BKN	250			10.00		79	74	76	85	7	14	29.81	29.92	18	SCT	250			10.00		89	71	76	55	10	12	29.85	29.96
21	BKN	250			10.00		77	75	76	94	0	00	29.81	29.92	21	FEW	250			10.00		79	74	76	85	3	16	29.90	30.01
24	SCT	250			10.00		78	76	77	94	3	16	29.81	29.92	24	CLR	NC			10.00		77	75	76	94	0	00	29.92	30.02
SUNRISE: 0525 JUL 04						SUNSET: 1926						SUNRISE: 0528 JUL 10						SUNSET: 1926											
03	BKN	250			8.00		76	75	75	97	0	00	29.80	29.91	03	CLR	NC			10.00		76	75	75	97	0	00	29.89	30.00
06	SCT	250			10.00		75	74	74	97	0	00	29.81	29.92	06	SCT	250			8.00		77	75	76	94	0	00	29.91	30.02
09	SCT	250			10.00		86	76	79	72	9	14	29.82	29.93	09	SCT	016			10.00		85	76	79	75	0	00	29.95	30.05
12	BKN	036			10.00		90	76	80	64	9	13	29.81	29.91	12	SCT	250			10.00		91	71	77	52	7	17	29.94	30.04
15	BKN	250			10.00		89	76	80	66	15	14	29.77	29.88	15	SCT	250			10.00		93	71	78	49	6	18	29.88	29.98
18	BKN	250			10.00		88	75	79	65	15	13	29.74	29.85	18	BKN	250			10.00		92	69	76	47	5	25	29.84	29.95
21	FEW	030			10.00		81	76	77	85	8	12	29.78	29.88	21	BKN	250			10.00		86	72	76	63	6	17	29.86	29.97
24	BKN	130			9.00		80	76	77	88	3	16	29.79	29.90	24	SCT	250			10.00		81	73	75	77	5	21	29.86	29.96
SUNRISE: 0526 JUL 05						SUNSET: 1926						SUNRISE: 0528 JUL 11						SUNSET: 1925											
03	SCT	130			7.00		77	76	76	97	0	00	29.76	29.86	03	BKN	250			10.00		80	74	76	82	0	00	29.85	29.96
06	SCT	150			10.00		78	76	77	94	0	00	29.77	29.88	06	SCT	250			10.00		78	74	75	88	0	00	29.87	29.97
09	SCT	130			10.00		85	76	79	75	0	00	29.79	29.89	09	SCT	023			10.00		85	75	78	72	8	22	29.88	29.99
12	BKN	065			10.00		89	76	80	66	3	VR	29.77	29.87	12	SCT	043			10.00		91	72	78	54	5	VR	29.86	29.97
15	BKN	060			10.00		92	74	79	56	5	VR	29.71	29.82	15	SCT	250			10.00		92	70	77	49	8	18	29.80	29.91
18	BKN	250			10.00		84	79	80	85	6	12	29.69	29.80	18	BKN	250			10.00		89	73	78	59	9	19	29.75	29.85
21	SCT	250			10.00		80	78	79	94	3	28	29.73	29.84	21	FEW	250			10.00		83	73	76	72	8	18	29.75	29.85
24	SCT	100			10.00		79	78	78	97	0	00	29.75	29.85	24	CLR	NC			10.00		80	74	76	82	5	19	29.79	29.89
SUNRISE: 0526 JUL 06						SUNSET: 1926						SUNRISE: 0529 JUL 12						SUNSET: 1925											
03	SCT	055			10.00		79	77	78	94	0	00	29.74	29.84	03	FEW	025			10.00		79	75	76	88	3	20	29.77	29.87
06	SCT	070			9.00		79	77	78	94	3	36	29.75	29.85	06	SCT	100			10.00		79	75	76	88	5	17	29.77	29.88
09	FEW	035			10.00		86	77	80	75	8	02	29.78	29.88	09	BKN	250			10.00		86	75	78	70	9	19	29.80	29.90
12	SCT	035			10.00		92	75	80	58	8	01	29.75	29.86	12	BKN	250			10.00		91	75	79	60	10	20	29.78	29.89
15	SCT	110			10.00		94	75	80	54	10	08	29.70	29.81	15	BKN	250			10.00		94	73	79	51	10	18	29.74	29.85
18	BKN	110			10.00		88	74	78	63	8	11	29.69	29.79	18	BKN	250			10.00		90	73	78	57	8	18	29.71	29.81
21	BKN	250			10.00		83	77	79	82	3	18	29.74	29.85	21	SCT	250			10.00		84	74	77	72	8	17	29.74	29.84
24	SCT	250			10.00		80	76	77	88	0	00	29.77	29.87	24	FEW	022			10.00		82	75	77	79	7	18	29.78	29.89

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX
JULY 2010

KIAH

WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)											
			Observation Time (LST)	Eff Cld Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg				STATION	SEA LEVEL		Observation Time (LST)	Eff Cld Amt Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL						
SUNRISE: 0529						JUL 13						SUNSET: 1925						SUNRISE: 0533						JUL 19						SUNSET: 1923					
03	SCT	032			10.00		81	75	77	82	8	18	29.77	29.87	03	SCT	250			10.00		78	77	77	97	0	00	29.85	29.96						
06	SCT	250			9.00		81	76	77	85	6	18	29.78	29.89	06	BKN	090			10.00	-RA	77	74	75	91	5	22	29.89	30.00						
09	SCT	250			10.00		87	75	78	68	11	22	29.82	29.92	09	BKN	120			10.00		80	76	77	88	5	06	29.92	30.03						
12	SCT	250			10.00		92	71	77	50	8	19	29.83	29.93	12	BKN	070			10.00		79	76	77	91	7	13	29.92	30.02						
15	SCT	250			10.00		94	71	78	47	11	19	29.80	29.91	15	BKN	120			10.00		83	78	79	85	3	19	29.87	29.97						
18	FEW	250			10.00		90	70	76	52	9	18	29.78	29.88	18	BKN	130			10.00		82	78	79	88	9	12	29.86	29.97						
21	FEW	250			10.00		84	74	77	72	7	16	29.83	29.93	21	BKN	250			10.00		80	77	78	91	6	12	29.88	29.99						
24	SCT	250			10.00		80	75	77	85	6	17	29.86	29.97	24	BKN	250			10.00		80	77	78	91	6	14	29.87	29.98						
SUNRISE: 0530						JUL 14						SUNSET: 1925						SUNRISE: 0533						JUL 20						SUNSET: 1922					
03	SCT	250			10.00		80	75	77	85	6	18	29.87	29.98	03	BKN	250			10.00		78	76	77	94	0	00	29.85	29.96						
06	BKN	250			10.00		80	76	77	88	3	17	29.91	30.01	06	SCT	250			10.00		78	76	77	94	0	00	29.89	30.00						
09	SCT	250			10.00		86	75	78	70	10	18	29.95	30.05	09	SCT	250			10.00		85	76	79	75	5	16	29.93	30.03						
12	SCT	250			10.00		91	73	78	56	7	22	29.95	30.05	12	SCT	130			10.00		92	73	78	54	8	14	29.94	30.04						
15	SCT	250			10.00		94	72	78	49	7	18	29.90	30.01	15	BKN	250			10.00		82	77	78	85	7	10	29.93	30.04						
18	SCT	250			10.00		92	72	78	52	7	17	29.87	29.97	18	BKN	250			10.00		88	77	80	70	8	12	29.88	29.98						
21	FEW	250			10.00		85	76	79	75	7	17	29.89	30.00	21	FEW	250			10.00		81	76	77	85	7	16	29.89	30.00						
24	FEW	250			10.00		82	76	78	82	5	17	29.90	30.01	24	FEW	250			10.00		77	75	76	94	0	00	29.93	30.03						
SUNRISE: 0531						JUL 15						SUNSET: 1924						SUNRISE: 0534						JUL 21						SUNSET: 1922					
03	SCT	250			10.00		80	76	77	88	3	19	29.92	30.02	03	BKN	250			10.00		77	75	76	94	0	00	29.92	30.03						
06	FEW	250			10.00		77	76	76	97	0	00	29.95	30.05	06	SCT	250			8.00		77	75	76	94	3	14	29.94	30.05						
09	SCT	250			10.00		87	76	79	70	3	VR	29.97	30.07	09	SCT	250			10.00		87	78	80	75	6	12	29.96	30.06						
12	SCT	060			10.00		93	73	79	52	7	23	29.95	30.05	12	BKN	250			10.00		89	78	81	70	10	13	29.95	30.06						
15	SCT	065			10.00		93	72	78	51	5	11	29.89	29.99	15	BKN	250			10.00		83	77	79	82	7	09	29.92	30.03						
18	FEW	060			10.00		92	77	81	62	11	12	29.86	29.96	18	BKN	250			10.00		86	76	79	72	13	13	29.89	30.00						
21	BKN	250			10.00		87	77	80	72	7	17	29.88	29.99	21	BKN	250			10.00		81	77	78	88	6	10	29.90	30.01						
24	SCT	250			10.00		84	77	79	80	5	21	29.92	30.02	24	SCT	250			10.00		79	78	78	97	8	09	29.90	30.01						
SUNRISE: 0531						JUL 16						SUNSET: 1924						SUNRISE: 0534						JUL 22						SUNSET: 1921					
03	SCT	250			10.00		81	76	77	85	0	00	29.91	30.02	03	SCT	250			10.00		79	77	78	94	5	36	29.89	30.00						
06	SCT	250			9.00		80	76	77	88	0	00	29.91	30.02	06	BKN	035			9.00		79	77	78	94	3	04	29.92	30.02						
09	BKN	250			10.00		87	75	78	68	6	26	29.93	30.03	09	BKN	250			10.00		86	78	80	77	7	09	29.93	30.04						
12	BKN	250			10.00		92	73	78	54	3	02	29.92	30.02	12	BKN	250			10.00		91	79	82	68	13	11	29.92	30.02						
15	OVC	250			10.00		95	72	79	47	8	01	29.87	29.97	15	BKN	250			10.00	-TSRA	85	79	81	82	14	11	29.88	29.99						
18	BKN	250			10.00		93	73	79	52	6	VR	29.84	29.94	18	BKN	250			10.00		84	79	80	85	11	07	29.87	29.97						
21	OVC	250			10.00		87	76	79	70	7	18	29.87	29.98	21	BKN	250			10.00		81	75	77	82	14	14	29.87	29.98						
24	BKN	250			10.00		84	75	78	74	3	21	29.89	30.00	24	OVC	120			10.00		80	78	79	94	7	13	29.88	29.99						
SUNRISE: 0532						JUL 17						SUNSET: 1924						SUNRISE: 0535						JUL 23						SUNSET: 1921					
03	SCT	250			10.00		81	75	77	82	3	23	29.88	29.99	03	BKN	250			9.00		78	77	77	97	0	00	29.87	29.98						
06	SCT	250			10.00		80	75	77	85	3	25	29.89	30.00	06	BKN	250			8.00		78	76	77	94	3	10	29.90	30.01						
09	SCT	250			10.00		87	76	79	70	6	30	29.93	30.03	09	BKN	250			10.00		86	76	79	72	8	16	29.94	30.05						
12	BKN	250			10.00		93	73	79	52	0	00	29.91	30.01	12	BKN	250			10.00		89	74	78	61	11	16	29.94	30.05						
15	BKN	250			10.00		93	73	79	52	3	17	29.86	29.96	15	SCT	250			10.00		92	77	81	62	16	12	29.90	30.00						
18	BKN	250			10.00		87	72	77	61	7	24	29.85	29.96	18	SCT	250			10.00		88	76	79	68	15	13	29.88	29.99						
21	BKN	250			10.00	-RA	76	74	75	94	5	20	29.90	30.01	21	FEW	250			10.00		82	76	78	82	6	14	29.93	30.03						
24	SCT	250			10.00		77	74	75	91	0	00	29.87	29.98	24	SCT	250			10.00		79	76	77	91	0	00	29.94	30.04						
SUNRISE: 0532						JUL 18						SUNSET: 1923						SUNRISE: 0536						JUL 24						SUNSET: 1920					
03	BKN	250			10.00		77	75	76	94	0	00	29.87	29.97	03	FEW	250			10.00		76	75	75	97	0	00	29.91	30.01						
06	BKN	250			10.00		78	77	77	97	3	36	29.89	30.00	06	SCT	250			9.00		76	75	75	97	3	35	29.94	30.04						
09	BKN	130			10.00		85	78	80	80	5	03	29.91	30.01	09	BKN	250			9.00		85	77	79	77	0	00	29.96	30.06						
12	BKN	250			10.00		91	75	79	60	0	00	29.89	29.99	12	SCT	250			10.00		89	73	78	59	0	00	29.96	30.06						
15	BKN	130			5.00	TSRA BR	81	77	78	88	3	24	29.86	29.97	15	SCT	250			10.00		93	73	79	52	0	00	29.91	30.01						
18	OVC	250			7.00	RA	79	76	77	91	5	05	29.85	29.96	18	BKN	250			10.00		87	78	80	75	6	12	29.87	29.98						
21	SCT	130			10.00		80	78	79	94	5	08	29.87	29.97	21	OVC	250			10.00		76	68	71	76	7	24	29.92	30.02						
24	SCT	250			10.00		79	78	78	97	3	12	29.86	29.97	24	SCT	250			10.00		76	69	71	79	0	00	29.91	30.01						

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX
JULY 2010

KIAH

WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)								
			Observation Time (LST)	Eff Cl'd Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL					
															WEATHER	STATION	SEA LEVEL		
SUNRISE: 0536						JUL 25						SUNSET: 1920							
03	SCT	250				75	71	72	87	0	00	29.90	30.01						
06	SCT	250				74	71	72	90	0	00	29.91	30.01						
09	SCT	250				83	73	76	72	3	07	29.92	30.03						
12	SCT	250				93	72	78	51	0	00	29.91	30.01						
15	BKN	250				94	73	79	51	6	36	29.85	29.96						
18	BKN	250				88	75	79	65	5	13	29.83	29.93						
21	BKN	250				84	69	74	61	9	15	29.86	29.97						
24	OVC	250				81	72	75	74	0	00	29.86	29.97						
SUNRISE: 0537						JUL 26						SUNSET: 1919							
03	BKN	090				81	73	75	77	0	00	29.85	29.96						
06	BKN	085				78	74	75	88	0	00	29.88	29.98						
09	BKN	200				86	78	80	77	0	00	29.89	29.99						
12	BKN	250				91	77	81	64	0	00	29.88	29.98						
15	SCT	040				77	74	75	91	0	00	29.84	29.95						
18	OVC	250			-RA	77	74	75	91	5	20	29.81	29.92						
21	BKN	250				78	75	76	91	0	00	29.88	29.98						
24	SCT	150				77	75	76	94	3	06	29.88	29.99						
SUNRISE: 0537						JUL 27						SUNSET: 1919							
03	SCT	050				77	76	76	97	6	11	29.87	29.98						
06	BKN	250				77	76	76	97	3	04	29.90	30.01						
09	SCT	130				78	73	75	85	6	12	29.92	30.03						
12	SCT	050				88	76	79	68	11	24	29.92	30.02						
15	BKN	250				83	77	79	82	6	12	29.90	30.01						
18	BKN	250				84	75	78	74	5	17	29.89	30.00						
21	BKN	250				80	76	77	88	6	16	29.93	30.03						
24	BKN	250				77	76	76	97	0	00	29.95	30.06						
SUNRISE: 0538						JUL 28						SUNSET: 1918							
03	SCT	250				78	75	76	91	3	15	29.93	30.04						
06	BKN	250				77	74	75	91	0	00	29.98	30.08						
09	BKN	250				84	77	79	80	10	14	30.03	30.13						
12	BKN	110				78	71	73	79	5	19	30.03	30.15						
15	BKN	250				83	75	77	77	7	11	30.00	30.11						
18	BKN	250				86	78	80	77	10	11	30.00	30.11						
21	BKN	250				81	75	77	82	5	16	30.01	30.12						
24	BKN	250				77	75	76	94	0	00	30.02	30.13						
SUNRISE: 0539						JUL 29						SUNSET: 1917							
03	OVC	250				77	75	76	94	0	00	30.03	30.15						
06	BKN	250				77	76	76	97	0	00	30.06	30.17						
09	BKN	250				84	76	78	77	0	00	30.08	30.18						
12	BKN	250				88	77	80	70	5	04	30.05	30.16						
15	OVC	250				88	78	81	72	13	11	30.00	30.10						
18	BKN	055				82	74	76	77	3	29	29.96	30.07						
21	SCT	250				81	77	78	88	7	17	29.96	30.07						
24	SCT	250				78	76	77	94	0	00	29.97	30.07						
SUNRISE: 0539						JUL 30						SUNSET: 1917							
03	SCT	250				76	75	75	97	0	00	29.95	30.06						
06	FEW	250			MIFG	75	74	74	97	0	00	29.96	30.06						
09	SCT	015				85	77	79	77	3	VR	29.96	30.07						
12	SCT	037				91	75	79	60	6	25	29.93	30.04						
15	SCT	050				95	73	79	49	0	00	29.86	29.97						
18	SCT	250				94	72	78	49	3	22	29.81	29.92						
21	FEW	250				84	76	78	77	0	00	29.83	29.93						
24	FEW	250				83	76	78	80	6	23	29.84	29.95						

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)								
			Observation Time (LST)	Eff Cl'd Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL					
															WEATHER	STATION	SEA LEVEL		
SUNRISE: 0540						JUL 31						SUNSET: 1916							
03	SCT	250				79	76	77	91	5	22	29.84	29.94						
06	SCT	250				78	76	77	94	3	24	29.84	29.95						
09	SCT	018				84	75	78	74	8	23	29.86	29.97						
12	CLR	NC				91	73	78	56	8	25	29.83	29.93						
15	FEW	250				96	63	74	34	0	00	29.78	29.88						
18	FEW	250				95	65	75	37	5	24	29.74	29.84						
21	CLR	NC				87	70	75	57	3	23	29.76	29.86						
24	FEW	250				81	72	75	74	3	24	29.78	29.88						

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.

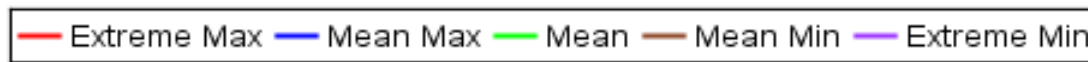
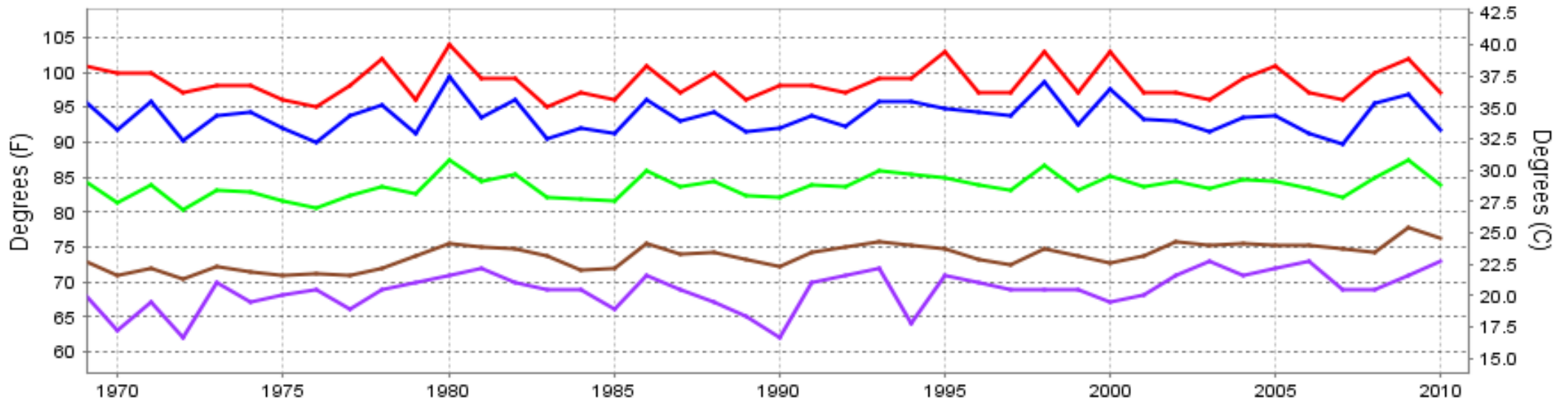
& = Original observation contained additional weather elements.

See page 3 for additional notes.

SUMMARY BY HOUR

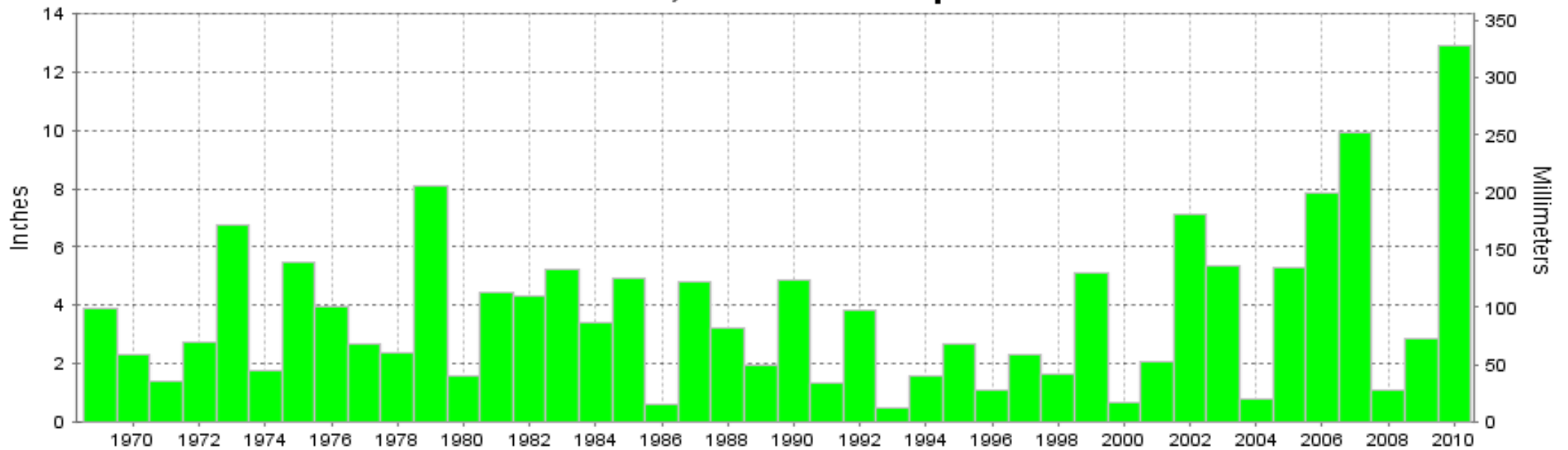
HOUR (LST)	AVERAGES										RESULTANT WIND (MPH)	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			79	76	77	91	29.87	29.97	9.87	3	4	14
02			78	76	76	92	29.86	29.97	9.84	2	5	15
03			78	75	76	92	29.86	29.97	9.52	2	4	15
04			78	75	76	92	29.86	29.97	9.35	2	5	14
05			78	75	76	93	29.87	29.98	9.58	3	4	15
06			78	75	76	93	29.88	29.99	8.87	3	3	15
07			80	76	77	90	29.89	30.00	9.60	4	4	13
08			82	77	78	84	29.90	30.01	9.45	6	2	14
09			84	76	78	77	29.91	30.01	9.74	6	3	13
10			86	76	79	72	29.91	30.01	9.81	7	4	12
11			87	75	79	68	29.90	30.01	9.94	7	4	12
12			88	75	79	66	29.90	30.00	9.81	7	3	13
13			88	74	78	66	29.89	29.99	8.88	9	5	12
14			88	74	78	66	29.87	29.98	9.42	7	4	12
15			88	74	78	67	29.86	29.96	9.23	7	5	12
16			88	74	78	66	29.85	29.95	9.18	8	5	11
17			88	74	78	67	29.83	29.94	9.48	8	5	11
18			86	74	78	70	29.83	29.94	9.87	8	4	11
19			84	75	78	76	29.84	29.94	9.65	7	5	11
20			82	75	77	81	29.85	29.95	9.81	7	5	11
21			81	75	77	82	29.86	29.96	10.00	6	3	13
22			81	75	77	84	29.87	29.97	10.00	5	3	13
23			80	76	77	87	29.87	29.98	9.94	4	3	13
24			79	75	77	88	29.87	29.98	9.87	4	3	14

HOUSTON, TX JULY Temperatures



Long-Term (1969-2010) Mean: 83.7
1971-2000 Normal: 83.6

HOUSTON, TX JULY Precipitation



Long-Term (1969-2010) Mean Monthly Total: 3.73

1971-2000 Normal: 3.18



JULY 2010
HOUSTON, TX

LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

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