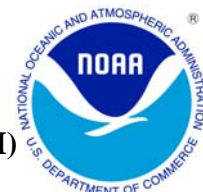




OCTOBER 2009 LOCAL CLIMATOLOGICAL DATA

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			
01	91	71	81	6	74	76	0	16	RA	0		0.0	T	29.73	29.86	6.5	17	6.8	22	16	17	15	01	
02	85	64	75	0	60	66	0	10	TS TSRA RA FG BR	0		0.0	0.62	29.78	29.89	6.2	03	7.4	38	04	32*	04	02	
03	78	69	74	-1	67	69	0	9	RA BR	0		0.0	0.28	29.73	29.86	7.5	09	8.1	17	11	13	11	03	
04	87	74	81	7	74	75	0	16	RA BR	0		0.0	0.36	29.66	29.78	2.7	18	5.8	24	18	16	18	04	
05	85	70	78	4	74	75	0	13	RA BR	0		0.0	0.44	29.73	29.84	5.4	08	7.4	16	13	14	09	05	
06	93*	78	86	13	76	79	0	21	BR	0		0.0	0.00	29.74	29.84	6.4	19	6.9	23	20	16	18	06	
07	91	77	84	11	77	79	0	19	RA BR	0		0.0	0.08	29.83	29.94	5.9	17	6.2	26	20	15	18	07	
08	92	82	87*	14	77	79	0	22	RA	0		0.0	T	29.75	29.88	13.3	17	13.4	33	17	24	17	08	
09	85	59	72	-1	67	69	0	7	RA BR SQ	0		0.0	0.94	29.84	29.92	1.3	01	11.9	37	35	28	34	09	
10	67	57	62	-10	58	60	3	0		0		0.0	0.00	29.98	30.09	7.3	36	7.9	17	01	14	01	10	
11	64	60	62	-10	60	61	3	0	RA BR	0		0.0	0.05	29.93	30.06	9.3	04	9.6	20	04	16	03	11	
12	85	64	75	3	71	71	0	10	TS TSRA RA FG+ BR	0		0.0	1.24	29.86	29.98	2.6	06	3.8	15	17	12	17	12	
13	85	74	80	9	75	76	0	15	RA BR	0		0.0	0.42	29.85	29.97	4.5	16	4.9	22	19	18	17	13	
14	91	78	85	14	76	78	0	20	RA BR	0		0.0	0.06	29.76	29.89	3.9	21	4.3	18	28	12	27	14	
15	92	69	81	10	74	76	0	16	RA HZ	0		0.0	T	29.69	29.80	3.9	27	7.6	23	22	18	35	15	
16	80	60	70	0	59	64	0	5	RA	0		0.0	T	29.98	30.05	11.3	01	11.5	33	04	23	03	16	
17	77	55	66	-4	51	57	0	1		0		0.0	0.00	30.20	30.29	5.4	02	6.1	26	03	17	02	17	
18	72	49	61	-9	47	53	4	0		0		0.0	0.00	30.22	30.34	5.1	10	6.3	18	11	14	12	18	
19	78	49	64	-6	54	58	1	0		0		0.0	0.00	30.04	30.18	6.0	13	6.7	29	21	17	13	19	
20	82	62	72	3	61	65	0	7		0		0.0	0.00	29.91	30.05	11.4	12	11.8	28	12	23	13	20	
21	81	68	75	6	69	70	0	10	TS RA BR	0		0.0	0.20	29.73	29.87	11.8	12	12.5	35	13	29	13	21	
22	75	57	66	-2	62	65	0	1	TS TSRA RA BR	0		0.0	3.05	29.65	29.76	6.4	30	9.3	29	31	22	31	22	
23	71	50	61	-7	46	53	4	0		0		0.0	0.00	29.85	29.95	6.0	30	6.3			15	32	23	
24	76	48	62	-6	47	54	3	0		0		0.0	0.00	29.86	29.99	2.8	15	3.1	18	13	15	14	24	
25	81	54	68	1	61	64	0	3		0		0.0	0.00	29.80	29.93	10.9	13	11.1	30	13	23	12	25	
26	72	58	65	-2	62	63	0	0	TS TSRA RA FG BR	0		0.0	2.43	29.80	29.93	6.2	02	9.5	35	01	28	36	26	
27	69	54	62	-5	54	56	3	0		0		0.0	0.00	29.75	29.88	4.3	30	6.5	18	30	14	30	27	
28	81	51	66	0	65	66	0	1	RA	0		0.0	0.03	29.62	29.76	10.7	14	11.0	37	13	26	14	28	
29	84	56	70	4	70	71	0	5	TS TSRA RA BR	0		0.0	2.45	29.58	29.69	9.7	17	15.8	39*	17	28	16	29	
30	66	50	58*	-8	52	55	7	0	TS RA BR	0		0.0	0.51	29.85	29.92	5.3	36	5.7	22	32	16	34	30	
31	74	47*	61	-5	46	52	4	0		0		0.0	0.00	30.01	30.11	2.3	32	2.7	18	34	14	34	31	

80.3	61.7	71.0	☼	63.4	66.3	1.0	7.3	< MONTHLY AVERAGES TOTALS >				0.0	13.16	29.83	29.95	2.1	11	8.0	< MONTHLY AVERAGES			
-1.7	2.9	0.6		<----- DEPARTURE FROM NORMAL ----->								8.66	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									

DEGREE DAYS				GREATEST 24-HR PRECIPITATION : 3.25 DATE : 21-22				SEA LEVEL PRESSURE			
MONTHLY				GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.43 18 1030			
SEASON TO DATE				GREATEST SNOW DEPTH : 0 DATE :				MINIMUM : 29.59 29 1724			
TOTAL DEPARTURE		TOTAL DEPARTURE		NUMBER OF -> DAYS WITH		MAXIMUM TEMP >= 90 : 6		MINIMUM TEMP <= 32 : 0		PRECIPITATION >= 0.01 INCH: 16	
HEATING : 32 -5		32 -6		THUNDERSTORMS : 7		MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH: 12	
COOLING : 227 31		3371 568				HEAVY FOG : 1				SNOWFALL >= 1.0 INCH : 0	

OCTOBER 2009
HOUSTON, TX

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX (KIAH)
OCTOBER 2009

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	01	T		T									01	T	T	
02			0.62										02												02	T	0.62	0.62
03													03	0.01	T			T	0.01	0.07	0.05	0.01	T	T	0.13	03	0.28	0.28
04	0.11			0.02	T	T	T	0.01	0.03	0.04	0.03	0.03	04	0.01					T				T	T	04	0.36	0.36	
05	T	0.01	0.31	0.06	0.05	T	0.01						05					T	0.08						05	0.44	0.44	
06													06												06	0.00	0.00	
07													07	0.06	T	0.02									07	0.08	0.08	
08													08											T	08	T	T	
09	T								0.04	0.25	0.32	0.06	09	0.08	0.01	0.09	0.06	0.01	T	T	0.02			09	0.94	0.94		
10													10												10	0.00	0.00	
11													11	T	0.01	T								T	11	0.05	0.05	
12				T	0.01			T	0.03	T	0.01	T	12		T		0.85	0.01						T	12	1.24	1.24	
13	T							0.02	T	0.02	0.33	0.01	13	0.02	0.01	T		0.10	0.24					13	0.42	0.42		
14						T	T		T	T	0.04	0.01	14											14	0.06	0.06		
15											0.05	0.01	15											15	T	T		
16				T	T							T	16											16	T	T		
17													17											17	0.00	0.00		
18													18											18	0.00	0.00		
19													19											19	0.00	0.00		
20													20											20	0.00	0.00		
21													21	0.04		T	0.03	0.02	0.01	T	0.07		0.03	T	21	0.20	0.20	
22			0.03	0.40	0.83	0.91	0.69	0.17	0.02				22											22	3.05	3.05		
23													23											23	0.00	0.00		
24													24											24	0.00	0.00		
25													25											25	0.00	0.00		
26					T	T	0.14	0.42	0.87	0.26	0.10	0.24	26	0.29	0.01	T	0.01	0.03	0.05	T		T	0.01	T	26	2.43	2.43	
27													27											27	0.00	0.00		
28													28					T	0.01	T	T	0.01	T	0.01	T	28	0.03	0.03
29	T		T		0.02	T	0.01	T	0.01	0.08	0.04	0.05	29	0.02	0.22	0.17	0.09	0.14	0.02	0.28	0.88	0.05	0.15	0.06	0.16	29	2.45	2.45
30	0.08	0.01	T	0.38	0.01	0.03	T						30											30	0.51	0.51		
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)	0.44	0.68	0.81	0.83	0.85	1.03	1.11	1.31	1.52	1.75	2.12	2.45
Ending Date	12	12	12	12	12	29	29	22	22	22	22	22
Ending Time (Hr/Min)	1543	1543	1545	1548	1557	1932	1947	0656	0650	0558	0649	0656

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 OCTOBER 2009

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							9.00	10.00	
02							10.00	10.00	
03							3.00	10.00	
04							4.00	10.00	
05							0.25	10.00	
06							6.00	10.00	
07							6.00	10.00	
08							10.00	10.00	
09							2.00	10.00	
10							2.00	10.00	
11							0.25	10.00	
12							0.12	10.00	
13							0.25	10.00	
14							5.00	10.00	
15							6.00	10.00	
16							7.00	10.00	
17							10.00	10.00	
18							10.00	10.00	
19							10.00	10.00	
20							10.00	10.00	
21							4.00	10.00	
22							0.50	10.00	
23							10.00	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							0.50	10.00	
27							10.00	10.00	
28							8.00	10.00	
29							0.50	10.00	
30							3.00	10.00	
31							10.00	10.00	
MONTHLY AVGS							5.72	10.00	
SUNSHINE (Minutes)									
Total : 0 Possible : 21264									
Percent Possible : 0									
NUMBER OF DAYS WITH :									
SKY CONDITION									
Clear Partly CLDY Cloudy Missing									
MINIMUM VISIBILITY (MILES)									
<= .25 <= 3.0 >= 7.0									
4 11 14									

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX
OCTOBER 2009

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: 0615						OCT 01						SUNSET: 1808						SUNRISE: 0618						OCT 07						SUNSET: 1801					
03	FEW	130			9.00		73	71	72	93	0	00	29.80	29.91	03	SCT	250			8.00		79	78	78	97	3	15	29.82	29.92						
06	SCT	250			10.00		73	71	72	93	3	18	29.79	29.90	06	SCT	250			6.00	BR	79	78	78	97	0	00	29.86	29.96						
09	BKN	250			10.00		84	74	77	72	11	18	29.79	29.90	09	BKN	250			10.00		84	78	80	82	8	17	29.89	29.99						
12	BKN	250			10.00		86	74	78	68	11	18	29.77	29.88	12	BKN	250			10.00		91	76	80	62	10	16	29.86	29.97						
15	BKN	250			10.00		84	77	79	80	13	14	29.71	29.82	15	BKN	250			10.00		88	79	81	75	6	19	29.82	29.92						
18	BKN	250			10.00		83	72	75	70	7	16	29.68	29.78	18	SCT	250			10.00		86	76	79	72	9	16	29.81	29.92						
21	BKN	250			10.00		82	76	78	82	5	19	29.72	29.83	21	SCT	250			10.00		82	78	79	88	8	15	29.85	29.96						
24	BKN	250			10.00		78	76	77	94	0	00	29.73	29.83	24	FEW	019			10.00		82	78	79	88	8	16	29.84	29.95						
SUNRISE: 0615						OCT 02						SUNSET: 1807						SUNRISE: 0619						OCT 08						SUNSET: 1759					
03	BKN	042			10.00		65	62	63	90	9	04	29.75	29.86	03	SCT	015			10.00		82	78	79	88	11	17	29.82	29.93						
06	BKN	250			10.00		68	61	64	78	6	05	29.80	29.91	06	BKN	023			10.00		82	78	79	88	10	17	29.83	29.94						
09	SCT	250			10.00		72	53	61	51	11	06	29.82	29.93	09	BKN	250			10.00		85	76	79	75	17	16	29.83	29.94						
12	FEW	130			10.00		79	55	65	44	7	06	29.82	29.93	12	BKN	037			10.00		90	76	80	64	18	16	29.80	29.90						
15	SCT	250			10.00		84	58	68	41	8	02	29.75	29.86	15	BKN	038			10.00		90	75	79	61	15	17	29.74	29.84						
18	SCT	250			10.00		76	62	67	62	3	04	29.75	29.85	18	SCT	029			10.00		86	76	79	72	15	16	29.72	29.82						
21	FEW	060			10.00		72	61	65	68	3	01	29.78	29.89	21	SCT	030			10.00		84	78	80	82	16	16	29.73	29.83						
24	SCT	250			10.00		71	60	64	68	6	02	29.78	29.89	24	BKN	060			10.00	-RA	84	78	80	82	17	16	29.71	29.81						
SUNRISE: 0616						OCT 03						SUNSET: 1806						SUNRISE: 0619						OCT 09						SUNSET: 1758					
03	BKN	250			10.00		70	59	63	68	8	04	29.78	29.89	03	BKN	044			10.00		83	76	78	80	13	19	29.69	29.79						
06	BKN	250			10.00		70	60	64	71	7	06	29.78	29.89	06	BKN	060			10.00		83	76	78	80	11	17	29.69	29.79						
09	BKN	250			10.00		71	60	64	68	10	10	29.80	29.91	09	OVC	250			8.00	+RA	85	76	79	75	7	21	29.73	29.84						
12	OVC	250			10.00		77	67	70	71	8	11	29.77	29.88	12	OVC	060			4.00	+RA BR	68	66	67	93	10	03	29.82	29.93						
15	OVC	019			10.00		78	71	73	79	8	09	29.71	29.82	15	OVC	065			4.00	RA BR	67	65	66	93	10	06	29.79	29.90						
18	OVC	100			10.00	-RA	75	72	73	90	6	07	29.71	29.82	18	OVC	013			9.00	-RA	61	59	60	93	17	30	29.91	30.02						
21	SCT	095			10.00		74	73	73	97	8	09	29.73	29.83	21	OVC	007			10.00		59	57	58	93	8	34	29.94	30.05						
24	OVC	060			3.00	RA BR	74	72	73	94	11	11	29.71	29.82	24	OVC	006			10.00		59	56	57	90	6	34	29.97	30.07						
SUNRISE: 0616						OCT 04						SUNSET: 1805						SUNRISE: 0620						OCT 10						SUNSET: 1757					
03	OVC	080			10.00		74	73	73	97	8	12	29.67	29.77	03	OVC	010			10.00		58	55	56	90	9	34	29.96	30.07						
06	BKN	250			10.00		74	73	73	97	3	13	29.66	29.77	06	OVC	005			10.00		57	55	56	93	8	36	29.98	30.10						
09	BKN	130			7.00		76	74	75	94	7	17	29.67	29.78	09	OVC	007			9.00		59	56	57	90	6	01	30.03	30.14						
12	BKN	130			7.00		78	76	77	94	14	22	29.64	29.75	12	OVC	011			10.00		64	58	61	81	9	33	30.00	30.11						
15	BKN	250			10.00		86	75	78	70	11	24	29.61	29.72	15	OVC	016			10.00		67	59	62	76	8	35	29.96	30.07						
18	BKN	130			4.00		79	78	78	97	6	30	29.65	29.76	18	OVC	014			10.00		64	58	61	81	6	36	29.98	30.09						
21	OVC	250			8.00		78	76	77	94	3	02	29.70	29.81	21	OVC	022			10.00		64	59	61	84	7	36	30.01	30.12						
24	OVC	035			9.00	-RA	77	75	76	94	3	06	29.71	29.82	24	OVC	028			10.00		63	60	61	90	6	04	29.98	30.10						
SUNRISE: 0617						OCT 05						SUNSET: 1804						SUNRISE: 0621						OCT 11						SUNSET: 1755					
03	OVC	038			3.00	+RA BR	76	75	75	97	9	05	29.72	29.83	03	OVC	014			10.00		63	59	61	87	10	03	29.96	30.07						
06	OVC	018			2.50	BR	74	72	73	94	8	05	29.74	29.85	06	OVC	010			10.00		61	57	59	87	13	03	30.00	30.11						
09	OVC	006			2.00	BR	72	69	70	90	10	06	29.79	29.90	09	OVC	011			6.00	-RA BR	61	58	59	90	13	04	30.02	30.12						
12	OVC	007			6.00	BR	75	71	72	87	7	05	29.78	29.88	12	OVC	008			10.00		64	61	62	90	13	02	29.96	30.07						
15	BKN	250			10.00		83	76	78	80	9	10	29.71	29.81	15	OVC	005			8.00	-RA	64	61	62	90	9	03	29.91	30.02						
18	BKN	250			8.00		82	79	80	91	8	11	29.69	29.80	18	OVC	005			1.00	BR	62	61	61	97	10	06	29.90	30.00						
21	FEW	250			10.00		80	77	78	91	6	16	29.74	29.84	21	OVC	003			1.25	BR	63	62	62	97	8	06	29.91	30.02						
24	FEW	250			9.00		78	77	77	97	3	15	29.73	29.83	24	OVC	001			0.25	BR	64	64	64	100	5	07	29.89	29.99						
SUNRISE: 0618						OCT 06						SUNSET: 1802						SUNRISE: 0621						OCT 12						SUNSET: 1754					
03	SCT	032			8.00		80	78	79	94	7	16	29.72	29.82	03	VV	001			0.12	FG	65	64	64	97	5	05	29.85	29.96						
06	SCT	250			6.00	BR	80	78	79	94	3	15	29.74	29.84	06	OVC	001			0.25	BR	66	66	66	100	5	01	29.86	29.96						
09	BKN	019			10.00		85	77	79	77	10	21	29.75	29.85	09	OVC	003			0.25	BR	70	69	69	97	5	06	29.89	29.99						
12	BKN	045			10.00		92	73	78	54	10	22	29.72	29.83	12	BKN	055			10.00		81	75	77	82	3	17	29.87	29.98						
15	BKN	060			10.00		91	73	78	56	8	25	29.70	29.81	15	OVC	250			10.00		83	75	77	77	3	34	29.82	29.93						
18	SCT	250			10.00		87	74	78	65	6	16	29.71	29.82	18	BKN	130			10.00		76	74	75	94	6	13	29.84	29.95						
21	FEW	250			10.00		83	77	79	82	7	18	29.79	29.89	21	OVC	050			10.00		76	74	75	94	6	05	29.88	29.98						
24	SCT	250			10.00		80	78	79	94	6	18	29.81	29.91	24	BKN	250			10.00		75	74	74	97	6	12	29.90	30.01						

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX
OCTOBER 2009

KIAH

WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)																	
			Observation Time (LST)	Eff Cld Amt Oktas			DRY BULB	DEW POINT	WET BULB		RELATIVE HUMIDITY (PCT)	STATION				SEA LEVEL	Observation Time (LST)			Eff Cld Amt Oktas	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL														
			SUNRISE: 0622								OCT 13									SUNSET: 1753							SUNRISE: 0626							OCT 19							SUNSET: 1747
03	SCT	075			8.00		75	75	75	100	0	00	29.87	29.98	03	CLR	NC			10.00			50	48	49	93	0	00	30.11	30.22											
06	BKN	250			9.00		74	73	73	97	3	15	29.89	29.99	06	CLR	NC			10.00			49	47	48	93	3	11	30.11	30.23											
09	SCT	250			10.00		81	75	77	82	11	17	29.90	30.00	09	CLR	NC			10.00			63	54	58	73	8	10	30.14	30.25											
12	BKN	080			10.00		77	75	76	94	3	20	29.89	30.00	12	SCT	037			10.00			74	57	64	56	13	17	30.11	30.22											
15	BKN	140			10.00		83	76	78	80	5	18	29.82	29.93	15	SCT	049			10.00			77	57	65	50	11	12	30.01	30.12											
18	BKN	080			10.00		79	78	78	97	0	00	29.82	29.93	18	FEW	055			10.00			69	57	62	66	13	12	29.98	30.10											
21	BKN	250			10.00		78	77	77	97	5	13	29.85	29.96	21	SCT	046			10.00			63	59	61	87	5	12	30.01	30.11											
24	BKN	085			7.00		79	78	78	97	6	17	29.83	29.94	24	BKN	048			10.00			63	60	61	90	3	10	29.98	30.09											
SUNRISE: 0623							OCT 14							SUNRISE: 0627							OCT 20							SUNSET: 1746													
03	BKN	060			5.00	BR	79	77	78	94	0	00	29.82	29.93	03	BKN	055			10.00			63	60	61	90	0	00	29.97	30.07											
06	BKN	050			6.00	BR	79	77	78	94	0	00	29.84	29.95	06	BKN	060			10.00			64	61	62	90	5	10	29.97	30.08											
09	OVC	090			10.00		82	79	80	91	5	21	29.85	29.96	09	SCT	250			10.00			74	63	67	69	9	13	29.98	30.09											
12	BKN	095			10.00		88	79	81	75	5	26	29.80	29.91	12	BKN	250			10.00			79	59	67	50	16	13	29.95	30.06											
15	SCT	070			10.00		90	74	79	59	7	22	29.73	29.83	15	BKN	250			10.00			80	61	68	52	18	14	29.89	30.00											
18	SCT	250			10.00		86	74	78	68	5	21	29.72	29.83	18	BKN	250			10.00			74	61	66	64	18	14	29.88	29.99											
21	CLR	NC			10.00		81	74	76	79	6	19	29.75	29.85	21	BKN	250			10.00			70	66	67	87	10	10	29.90	30.01											
24	FEW	010			10.00		79	76	77	91	6	19	29.71	29.81	24	BKN	250			10.00			70	65	67	84	14	11	29.89	29.99											
SUNRISE: 0623							OCT 15							SUNRISE: 0627							OCT 21							SUNSET: 1745													
03	BKN	012			10.00		79	76	77	91	5	20	29.69	29.80	03	BKN	250			10.00			69	65	66	87	11	10	29.83	29.94											
06	BKN	020			10.00		79	76	77	91	6	22	29.71	29.81	06	OVC	250			10.00			68	66	67	93	13	09	29.82	29.93											
09	BKN	020			10.00		84	76	78	77	9	22	29.72	29.83	09	OVC	130			10.00			70	66	67	87	8	09	29.83	29.94											
12	SCT	035			10.00		90	74	79	59	10	25	29.67	29.78	12	OVC	130			10.00			81	70	74	69	18	11	29.79	29.89											
15	BKN	250			10.00		91	74	79	58	7	24	29.63	29.74	15	OVC	060			4.00	-RA		76	71	73	85	15	12	29.72	29.83											
18	SCT	065			6.00	HZ	87	75	78	68	0	00	29.63	29.74	18	OVC	060			10.00	-RA		73	71	72	93	17	12	29.69	29.80											
21	OVC	040			10.00		78	72	74	82	15	36	29.71	29.82	21	OVC	015			10.00			74	72	73	94	14	14	29.67	29.78											
24	OVC	029			10.00		69	63	65	81	9	35	29.77	29.88	24	BKN	090			10.00			74	71	72	90	5	18	29.65	29.76											
SUNRISE: 0624							OCT 16							SUNRISE: 0628							OCT 22							SUNSET: 1744													
03	OVC	011			10.00		68	64	66	87	13	36	29.80	29.91	03	OVC	080			4.00	RA BR		74	72	73	94	5	19	29.60	29.71											
06	BKN	021			10.00		68	60	63	76	13	02	29.88	29.99	06	OVC	030			0.50	TS+RA BR		73	71	72	93	8	22	29.57	29.68											
09	BKN	021			10.00		72	62	66	71	15	01	29.96	30.07	09	BKN	060			10.00			72	69	70	90	9	29	29.59	29.70											
12	FEW	250			10.00		76	59	66	56	15	36	29.97	30.08	12	OVC	040			10.00			70	64	66	81	18	30	29.61	29.72											
15	CLR	NC			10.00		79	55	65	44	15	03	29.94	30.04	15	OVC	020			10.00			68	60	63	76	13	32	29.62	29.72											
18	CLR	NC			10.00		72	55	62	55	10	01	29.97	30.08	18	SCT	033			10.00			66	57	61	73	9	32	29.68	29.79											
21	CLR	NC			10.00		65	55	59	70	7	02	30.03	30.15	21	CLR	NC			10.00			60	52	56	75	9	31	29.75	29.86											
24	CLR	NC			10.00		61	55	58	81	6	34	30.11	30.21	24	CLR	NC			10.00			57	46	51	67	5	30	29.78	29.89											
SUNRISE: 0625							OCT 17							SUNRISE: 0629							OCT 23							SUNSET: 1743													
03	CLR	NC			10.00		59	53	56	81	5	35	30.14	30.25	03	CLR	NC			10.00			53	46	49	77	3	28	29.81	29.92											
06	CLR	NC			10.00		56	47	51	72	9	02	30.16	30.28	06	CLR	NC			10.00			50	46	48	86	3	24	29.85	29.96											
09	CLR	NC			10.00		63	47	55	56	6	02	30.24	30.36	09	CLR	NC			10.00			58	45	51	62	10	30	29.89	30.00											
12	CLR	NC			10.00		73	48	59	41	11	36	30.22	30.33	12	CLR	NC			10.00			66	46	55	49	9	29	29.86	29.97											
15	FEW	045			10.00		76	49	61	39	10	01	30.18	30.29	15	FEW	100			10.00			70	43	56	38	14	31	29.81	29.92											
18	SCT	250			10.00		69	52	59	55	3	VR	30.18	30.29	18	FEW	100			10.00			63	42	52	46	6	30	29.85	29.96											
21	CLR	NC			10.00		59	55	57	87	0	00	30.22	30.33	21	CLR	NC			10.00			58	46	52	65	0	00	29.89	29.99											
24	FEW	250			10.00		56	51	53	83	10	08	30.24	30.36	24	CLR	NC			10.00			51	49	50	93	0	00	29.90	30.01											
SUNRISE: 0625							OCT 18							SUNRISE: 0629							OCT 24							SUNSET: 1742													
03	FEW	250			10.00		53	49	51	86	7	08	30.26	30.37	03	CLR	NC			10.00			49	47	48	93	0	00	29.90	30.01											
06	FEW	250			10.00		50	47	49	90	5	09	30.29	30.39	06	SCT	250			10.00			48	47	48	96	0	00	29.91	30.02											
09	CLR	NC			10.00		58	42	50	55	10	11	30.32	30.43	09	SCT	250			10.00			60	50	55	70	0	00	29.97	30.07											
12	CLR	NC			10.00		66	46	55	49	8	11	30.29	30.40	12	SCT	250			10.00			72	43	57	35	0	00	29.92	30.02											
15	FEW	250			10.00		70	46	57	42	0	00	30.19	30.31	15	FEW	250			10.00			76	45	59	33	0	00	29.84	29.94											
18	FEW	250			10.00		63	48	55	58	8	13	30.16	30.28	18	FEW	250			10.00			66	46	55	49	11	14	29.83	29.94											
21	FEW	250			10.00		57	48	52	72	5	18	30.18	30.28	21	FEW	250			10.00			61	51	56	70	8	15	29.84	29.94											
24	CLR	NC			10.00		52	48	50	86	0	00	30.16	30.27	24	CLR	NC			10.00			55	52	53	90	5	12	29.84	29.94											

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX
OCTOBER 2009

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			
SUNRISE: 0630						OCT 25						SUNSET: 1741					
03	CLR	NC			10.00			59	55	57	87	6	14	29.82	29.93		
06	BKN	100			10.00			62	58	60	87	6	10	29.83	29.94		
09	FEW	055			10.00			73	62	66	69	15	14	29.84	29.95		
12	BKN	039			10.00			77	63	68	62	15	12	29.83	29.94		
15	BKN	250			10.00			77	63	68	62	18	12	29.78	29.88		
18	BKN	250			10.00			74	64	68	71	16	14	29.80	29.91		
21	SCT	250			10.00			70	67	68	90	11	11	29.84	29.94		
24	SCT	250			10.00			70	66	67	87	8	12	29.78	29.89		
SUNRISE: 0631						OCT 26						SUNSET: 1740					
03	BKN	250			10.00			72	68	69	87	7	11	29.78	29.88		
06	BKN	080			10.00			70	68	69	93	7	11	29.75	29.85		
09	OVC	055			0.50	TS+RA FG		62	61	61	97	13	03	29.84	29.95		
12	OVC	070			1.50	+RA BR		63	61	62	93	8	36	29.87	29.98		
15	OVC	017			10.00	-RA		65	62	63	90	11	36	29.83	29.94		
18	OVC	250			10.00	-RA		63	61	62	93	8	05	29.80	29.91		
21	OVC	005			6.00	-RA BR		61	59	60	93	10	02	29.84	29.95		
24	OVC	009			10.00			58	56	57	93	7	31	29.83	29.94		
SUNRISE: 0631						OCT 27						SUNSET: 1739					
03	OVC	006			10.00			56	54	55	93	10	31	29.82	29.92		
06	OVC	011			10.00			55	53	54	93	7	31	29.82	29.93		
09	OVC	008			10.00			56	52	54	87	7	29	29.83	29.94		
12	BKN	015			10.00			61	53	57	75	3	VR	29.79	29.90		
15	FEW	031			10.00			68	53	59	59	7	29	29.72	29.83		
18	FEW	250			10.00			59	54	56	84	0	00	29.70	29.81		
21	CLR	NC			10.00			54	52	53	93	5	14	29.72	29.83		
24	CLR	NC			10.00			55	53	54	93	3	16	29.72	29.83		
SUNRISE: 0632						OCT 28						SUNSET: 1738					
03	CLR	NC			10.00			51	50	50	96	0	00	29.69	29.80		
06	CLR	NC			10.00			54	53	53	96	0	00	29.68	29.79		
09	OVC	028			10.00			65	62	63	90	6	12	29.69	29.80		
12	BKN	034			10.00			80	67	71	65	16	15	29.65	29.76		
15	OVC	055			10.00			79	72	74	79	13	12	29.60	29.70		
18	OVC	075			10.00			76	73	74	90	17	13	29.59	29.70		
21	OVC	050			10.00	-RA		77	74	75	91	21	14	29.60	29.71		
24	OVC	050			8.00			77	75	76	94	14	14	29.60	29.71		
SUNRISE: 0633						OCT 29						SUNSET: 1737					
03	BKN	045			10.00			78	75	76	91	14	14	29.58	29.68		
06	OVC	065			10.00			79	75	76	88	20	16	29.59	29.69		
09	BKN	050			7.00	-RA		83	76	78	80	15	17	29.60	29.71		
12	BKN	060			2.00	-RA BR		83	76	78	80	16	17	29.54	29.65		
15	OVC	040			1.50	-RA BR		81	77	78	88	15	17	29.49	29.59		
18	OVC	046			2.00	-RA BR		80	76	77	88	16	18	29.50	29.61		
21	OVC	050			10.00	-RA		60	56	58	87	11	35	29.67	29.78		
24	OVC	065			10.00	-TSRA		57	54	55	90	7	35	29.72	29.83		
SUNRISE: 0634						OCT 30						SUNSET: 1736					
03	OVC	047			10.00			58	54	56	87	6	33	29.67	29.78		
06	OVC	080			10.00	-RA		55	52	53	90	10	35	29.77	29.88		
09	BKN	070			10.00			58	53	55	84	13	34	29.83	29.94		
12	OVC	075			10.00			60	49	54	67	7	34	29.83	29.93		
15	BKN	250			10.00			65	48	56	54	3	VR	29.80	29.91		
18	BKN	250			10.00			57	53	55	87	0	00	29.85	29.96		
21	FEW	250			10.00			52	50	51	93	0	00	29.90	30.01		
24	SCT	250			10.00			50	49	49	96	0	00	29.97	30.08		

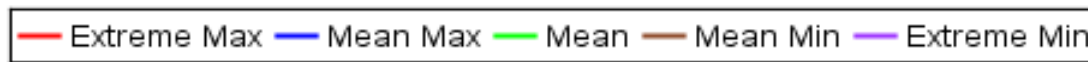
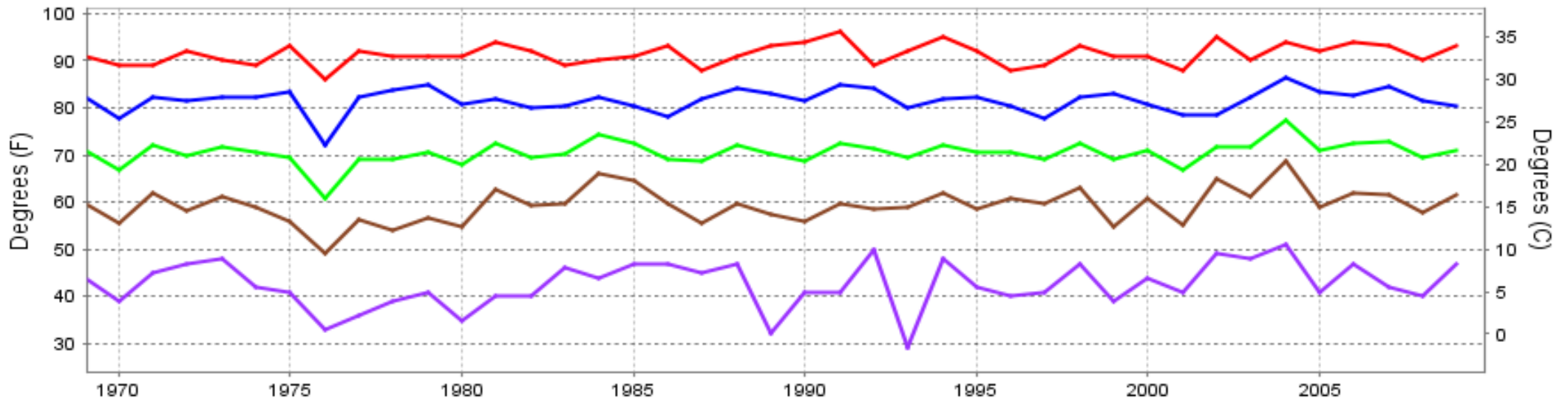
HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)						
			Observation Time (LST)	Eff Cl'd Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL			
SUNRISE: 0634						OCT 31						SUNSET: 1736					
03	CLR	NC			10.00			49	49	49	100	0	00	29.97	30.08		
06	CLR	NC			10.00			48	46	47	93	0	00	29.98	30.10		
09	CLR	NC			10.00			59	50	54	72	3	26	30.06	30.17		
12	CLR	NC			10.00			70	40	55	34	7	31	30.03	30.14		
15	CLR	NC			10.00			73	39	55	29	11	34	30.00	30.11		
18	CLR	NC			10.00			64	43	53	47	0	00	30.01	30.12		
21	CLR	NC			10.00			53	48	50	83	0	00	30.05	30.16		
24	CLR	NC			10.00			52	48	50	86	0	00	30.06			

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

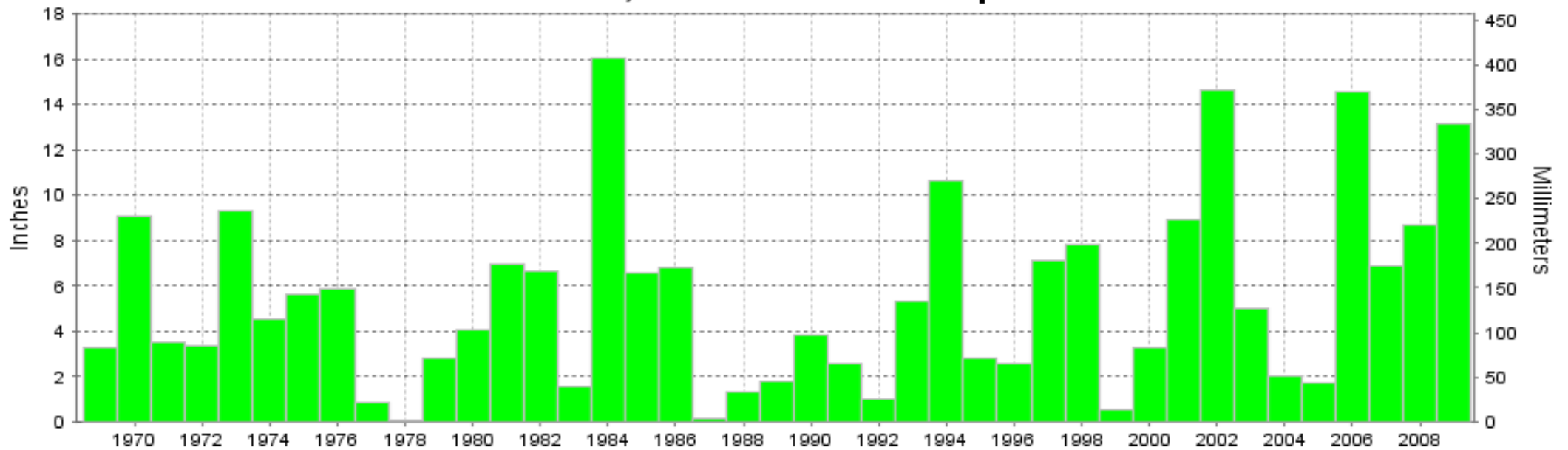
HOUR (LST)	AVERAGES										RESULTANT WIND (MPH)	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			68	64	66	89	29.83	29.94	9.24	6	3	12
02			67	64	65	90	29.83	29.94	9.33	6	3	12
03			67	63	65	90	29.83	29.94	8.87	6	3	12
04			66	63	64	91	29.83	29.94	8.49	6	3	11
05			66	63	64	90	29.84	29.94	8.80	7	3	11
06			66	63	64	90	29.84	29.95	8.72	6	3	12
07			66	63	64	90	29.85	29.96	8.10	7	3	11
08			68	64	65	85	29.87	29.97	8.27	8	3	11
09			71	63	66	78	29.87	29.98	8.70	9	2	12
10			73	63	67	73	29.88	29.98	8.69	11	3	11
11			75	63	67	69	29.87	29.98	8.47	11	2	13
12			76	63	68	67	29.85	29.96	9.05	10	2	13
13			76	63	68	67	29.83	29.94	9.11	9	2	13
14			77	63	69	65	29.81	29.92	9.56	10	2	12
15			78	64	69	64	29.80	29.91	9.27	10	2	12
16			77	63	69	65	29.80	29.90	9.27	9	2	12
17			76	63	68	68	29.80	29.90	8.98	10	3	11
18			73	64	67	75	29.81	29.92	9.03	8	4	11
19			71	64	67	80	29.82	29.93	9.06	8	3	12
20			70	64	66	84	29.83	29.94	9.39	7	3	12
21			69	64	66	85	29.85	29.95	9.52	7	3	11
22			68	64	65	87	29.85	29.96	9.46	6	2	12
23			67	64	65	88	29.85	29.96	9.43	7	3	11
24			67	63	65	89	29.85	29.95	9.23	6	3	11

HOUSTON, TX OCTOBER Temperatures



Long-Term (1969-2009) Mean: 70.4
 1971-2000 Normal: 70.4

HOUSTON, TX OCTOBER Precipitation



Long-Term (1969-2009) Mean Monthly Total: 5.44

1971-2000 Normal: 4.50



OCTOBER 2009
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.

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