



# JANUARY 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			
01	56	38	47	-5	35	41	18	0		0		0.0	0.00	30.27	30.40	8.1	35	8.5	26	33	22	33	01	
02	56	31	44	-8	32	39	21	0		0		0.0	0.00	30.19	30.33	3.1	13	3.8	15	12	13	13	02	
03	49	37	43	-9	35	40	22	0	RA	0		0.0	T	30.15	30.26	3.8	04	5.0	14	10	12	05	03	
04	48	34	41	-11	29	37	24	0		0		0.0	0.00	30.32	30.41	10.4	34	10.6	25	35	21	01	04	
05	50	28	39	-13	26	33	26	0		0		0.0	0.00	30.30	30.43	1.1	35	2.6	18	09	9	04	05	
06	54	29	42	-10	40	42	23	0	RA	0		0.0	T	30.06	30.21	6.6	12	6.9	23	13	18	14	06	
07	52	30	41	-11	32	38	24	0	RA BR	0		0.0	0.12	30.17	30.26	14.6	35	14.8	36	36	29*	36	07	
08	33	25	29*	-22	13	25	36	0		0		0.0	0.00	30.42	30.52	13.2	34	13.4	26	36	21	36	08	
09	43	20*	32	-19	12	25	33	0		0		0.0	0.00	30.45	30.56	3.8	35	4.6	16	36	13	36	09	
10	45	22	34	-17	18	28	31	0		0		0.0	0.00	30.50	30.63	1.0	11	2.7	13	11	9	14	10	
11	57	23	40	-11	30	35	25	0		0		0.0	0.00	30.35	30.49	0.6	24	1.2	13	21	8	20	11	
12	64	33	49	-2	35	41	16	0	BR	0		0.0	0.00	30.31	30.44	1.3	34	1.8	15	33	12	34	12	
13	59	33	46	-5	40	44	19	0	RA BR	0		0.0	T	30.19	30.33	5.3	13	5.8	16	13	13	12	13	
14	59	47	53	2	51	51	12	0	RA BR	0		0.0	0.09	29.98	30.12	8.2	10	8.6	20	10	15	09	14	
15	54	50	52	1	48	50	13	0	RA BR	0		0.0	0.32	29.86	30.00	11.8	05	12.5	28	03	22	03	15	
16	52	45	49	-2	45	47	16	0	RA BR	0		0.0	0.10	29.80	29.92	9.2	34	10.5	26	32	20	32	16	
17	64	41	53	1	44	47	12	0	BR	0		0.0	0.00	29.91	30.02	3.0	28	4.0	15	29	12	34	17	
18	70	38	54	2	50	53	11	0	MIFG	0		0.0	0.00	29.91	30.04	6.1	16	6.4	21	17	16	16	18	
19	78	59	69	17	61	63	0	4		0		0.0	0.00	29.77	29.91	8.4	17	8.6	24	18	17	17	19	
20	74	65	70*	18	66	67	0	5	RA BR	0		0.0	0.03	29.55	29.70	7.5	17	8.0	21	16	16	16	20	
21	78*	50	64	12	47	56	1	0	BR	0		0.0	0.00	29.63	29.73	4.9	26	5.5	21	24	13	31	21	
22	75	44	60	8	50	55	5	0		0		0.0	0.00	29.65	29.77	8.3	14	9.2	24	15	21	15	22	
23	74	54	64	12	57	61	1	0	BR HZ	0		0.0	0.00	29.49	29.60	4.6	17	9.6	37*	28	24	31	23	
24	68	50	59	7	37	49	6	0	RA	0		0.0	T	29.63	29.71	9.3	28	10.5	29	30	23	31	24	
25	66	37	52	0	38	46	13	0		0		0.0	0.00	29.91	30.00	0.6	27	2.0	16	22	12	24	25	
26	69	40	55	3	35	46	10	0		0		0.0	0.00	30.09	30.19	3.2	12	4.4	17	16	13	16	26	
27	67	43	55	3	50	53	10	0		0		0.0	0.00	30.08	30.19	9.0	12	9.1	26	14	22	14	27	
28	66	56	61	8	57	58	4	0	RA BR	0		0.0	0.20	29.91	30.07	13.2	12	13.6	30	11	23	13	28	
29	67	38	53	0	47	49	12	0	TS TSRA RA FG+ BR	0		0.0	1.67	29.83	29.94	8.5	32	14.7	32	15	24	14	29	
30	39	34	37	-16	30	34	28	0		0		0.0	0.00	30.07	30.16	11.8	34	12.3	25	33	20	33	30	
31	45	34	40	-13	31	35	25	0		0		0.0	0.00	30.14	30.25	3.3	02	5.5	18	02	15	02	31	

59.1		39.0		49.1		☼	39.4		44.8		16.0		0.3		< MONTHLY AVERAGES   TOTALS >		0.0		2.53		30.03		30.15		1.4		03		7.6		< MONTHLY AVERAGES	
-3.2		-2.2		-2.7			<----- DEPARTURE FROM NORMAL ----->										-1.15		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3													
<b>DEGREE DAYS</b>										GREATEST 24-HR PRECIPITATION : 1.87 DATE : 28-29										SEA LEVEL PRESSURE												
MONTHLY					SEASON TO DATE					GREATEST 24-HR SNOWFALL : 0.0 DATE :					MAXIMUM : 30.73 10 1043																	
TOTAL DEPARTURE					TOTAL DEPARTURE					GREATEST SNOW DEPTH : 0 DATE :					MINIMUM : 29.47 23 1453																	
HEATING :		497		70		1096		75		NUMBER OF -> DAYS WITH		MAXIMUM TEMP >= 90 : 0		MINIMUM TEMP <= 32 : 8		PRECIPITATION >= 0.01 INCH: 7																
COOLING :		9		-6		9		-6		THUNDERSTORMS : 1		MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH: 5																
												HEAVY FOG : 1				SNOWFALL >= 1.0 INCH : 0																

JANUARY 2010  
HOUSTON, TX

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX (KIAH)  
JANUARY 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													01												01	0.00	0.00	
02													02												02	0.00	0.00	
03													03		T	T									03	T	T	
04													04												04	0.00	0.00	
05													05												05	0.00	0.00	
06													06												06	T	T	
07	T	0.01	T		0.05	0.05	0.01						07												07	0.12	0.12	
08													08												08	0.00	0.00	
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	T	T	
14	T	T	0.01					T	0.01	T	T	0.03	14	0.01	0.02		T							14	0.09	0.09		
15	T	T	T							T	T	T	15	0.02	T	T	0.01	0.06	0.04	0.01	0.01	0.07	0.01	0.02	0.07	0.32	0.32	
16	0.03	0.04	0.01		T	0.02	T			T	T		16												16	0.10	0.10	
17													17												17	0.00	0.00	
18													18												18	0.00	0.00	
19													19												19	0.00	0.00	
20				0.01	T								20		T	0.01	T	T	T		0.01	T			20	0.03	0.03	
21													21												21	0.00	0.00	
22													22												22	0.00	0.00	
23													23												23	0.00	0.00	
24													24												24	T	T	
25													25												25	0.00	0.00	
26													26												26	0.00	0.00	
27													27												27	0.00	0.00	
28													28												28	0.20	0.20	
29	0.04	0.04	0.08	0.05	0.07	1.39	T	T	T	T			29												29	1.67	1.67	
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)	0.53	0.88	1.02	1.19	1.38	1.39	1.44	1.46	1.46	1.46	1.47	1.53
Ending Date	29	29	29	29	29	29	29	29	29	29	29	29
Ending Time (Hr/Min)	0530	0534	0536	0535	0540	0549	0540	0549	0549	0549	0549	0549

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 JANUARY 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							10.00	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							10.00	10.00	
05							10.00	10.00	
06							7.00	10.00	
07							5.00	10.00	
08							9.00	10.00	
09							9.00	10.00	
10							10.00	10.00	
11							9.00	10.00	
12							5.00	10.00	
13							5.00	10.00	
14							1.50	10.00	
15							4.00	10.00	
16							2.00	10.00	
17							5.00	10.00	
18							7.00	10.00	
19							7.00	10.00	
20							0.75	10.00	
21							0.25	10.00	
22							3.00	10.00	
23							5.00	10.00	
24							8.00	10.00	
25							10.00	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							4.00	10.00	
29							0.50	10.00	
30							4.00	10.00	
31							7.00	10.00	
MONTHLY AVGS							6.39	10.00	
<b>SUNSHINE (Minutes)</b>									
Total : 0					Possible : 19489				
Percent Possible : 0									
<b>NUMBER OF DAYS WITH :</b>									
SKY CONDITION									
Clear		Partly CLDY			Cloudy			Missing	
<b>MINIMUM VISIBILITY (MILES)</b>									
<= .25			<= 3.0				>= 7.0		
1			6				17		

# OBSERVATIONS AT 3-HOURLY INTERVALS

# HOUSTON, TX JANUARY 2010

# 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)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL						
																														DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg
SUNRISE: 0717						JAN 01						SUNSET: 1733						SUNRISE: 0718						JAN 07						SUNSET: 1737					
03	OVC	013			10.00		46	40	43	80	17	34	30.24	30.36	03	OVC	037			6.00	BR	51	50	50	96	0	00	29.93	30.04						
06	OVC	016			10.00		44	38	41	80	14	36	30.24	30.36	06	OVC	007			5.00	-RA BR	51	50	50	96	10	34	29.96	30.08						
09	OVC	018			10.00		43	36	40	76	13	34	30.35	30.47	09	OVC	013			10.00		46	44	45	93	24	34	30.11	30.22						
12	FEW	018			10.00		50	37	44	61	9	03	30.34	30.45	12	OVC	016			10.00		39	33	37	79	20	34	30.18	30.29						
15	FEW	250			10.00		56	29	44	36	8	36	30.24	30.36	15	SCT	250			10.00		40	26	35	57	23	34	30.16	30.28						
18	FEW	250			10.00		50	30	42	46	0	00	30.26	30.37	18	BKN	250			10.00		36	19	30	50	17	35	30.22	30.33						
21	CLR	NC			10.00		43	32	38	65	0	00	30.29	30.40	21	BKN	250			10.00		32	16	27	52	16	35	30.32	30.43						
24	CLR	NC			10.00		39	32	36	76	0	00	30.29	30.40	24	BKN	250			10.00		30	12	25	47	15	35	30.34	30.45						
SUNRISE: 0717						JAN 02						SUNRISE: 0718						JAN 08						SUNSET: 1738											
03	CLR	NC			10.00		37	33	35	86	0	00	30.26	30.37	03	BKN	250			10.00		27	11	22	51	11	34	30.37	30.49						
06	FEW	250			10.00		35	32	34	89	0	00	30.26	30.37	06	BKN	250			10.00		26	9	21	48	15	35	30.40	30.52						
09	BKN	250			10.00		42	35	39	76	0	00	30.29	30.41	09	OVC	250			10.00		26	10	22	51	14	33	30.45	30.57						
12	BKN	250			10.00		53	30	43	41	0	00	30.26	30.37	12	OVC	250			10.00		32	11	26	42	17	34	30.43	30.55						
15	BKN	250			10.00		54	27	43	35	6	13	30.16	30.28	15	OVC	250			10.00		31	12	25	45	15	33	30.38	30.51						
18	BKN	250			10.00		48	31	41	52	7	13	30.14	30.26	18	OVC	250			10.00		30	12	25	47	13	33	30.40	30.52						
21	SCT	250			10.00		43	34	39	71	3	14	30.16	30.27	21	BKN	250			10.00		28	12	23	51	10	34	30.45	30.57						
24	BKN	250			10.00		41	35	38	79	5	11	30.14	30.25	24	SCT	250			10.00		26	13	22	58	7	34	30.46	30.58						
SUNRISE: 0718						JAN 03						SUNRISE: 0718						JAN 09						SUNSET: 1739											
03	SCT	250			10.00		39	35	37	86	0	00	30.10	30.22	03	CLR	NC			10.00		23	12	20	63	5	34	30.42	30.55						
06	SCT	250			10.00		38	34	36	86	7	05	30.11	30.23	06	FEW	250			10.00		22	13	19	68	6	33	30.45	30.58						
09	OVC	070			10.00		39	34	37	82	8	09	30.16	30.27	09	CLR	NC			10.00		26	13	22	58	5	04	30.47	30.60						
12	OVC	065			10.00		44	35	40	71	7	06	30.14	30.26	12	CLR	NC			10.00		35	11	28	37	0	00	30.45	30.56						
15	OVC	085			10.00		48	36	43	63	6	07	30.11	30.23	15	CLR	NC			10.00		42	10	32	27	8	01	30.37	30.49						
18	OVC	080			10.00		49	35	43	59	0	00	30.14	30.26	18	CLR	NC			10.00		38	13	30	36	0	00	30.40	30.52						
21	OVC	060			10.00		48	36	43	63	5	35	30.19	30.29	21	CLR	NC			10.00		31	14	26	49	3	33	30.46	30.58						
24	OVC	040			10.00		47	38	43	71	7	33	30.21	30.32	24	CLR	NC			9.00		28	15	24	58	0	00	30.50	30.61						
SUNRISE: 0718						JAN 04						SUNRISE: 0718						JAN 10						SUNSET: 1740											
03	OVC	047			10.00		47	37	43	68	10	34	30.22	30.34	03	CLR	NC			10.00		26	15	23	63	3	03	30.50	30.61						
06	OVC	036			10.00		42	34	39	73	11	35	30.26	30.37	06	CLR	NC			10.00		24	16	22	71	0	00	30.51	30.63						
09	OVC	017			10.00		39	31	36	73	14	35	30.32	30.44	09	CLR	NC			10.00		28	22	26	78	6	11	30.58	30.71						
12	SCT	250			10.00		42	27	36	55	15	33	30.34	30.45	12	FEW	250			10.00		38	20	32	48	3	VR	30.58	30.70						
15	CLR	NC			10.00		47	26	39	44	9	35	30.29	30.41	15	CLR	NC			10.00		44	17	34	34	3	VR	30.48	30.60						
18	FEW	250			10.00		42	26	36	53	11	35	30.30	30.42	18	CLR	NC			10.00		36	19	30	50	0	00	30.48	30.60						
21	CLR	NC			10.00		37	26	33	65	6	34	30.35	30.47	21	CLR	NC			10.00		35	21	30	57	6	18	30.47	30.59						
24	CLR	NC			10.00		34	25	31	70	7	34	30.37	30.49	24	CLR	NC			10.00		27	22	25	81	0	00	30.47	30.60						
SUNRISE: 0718						JAN 05						SUNRISE: 0718						JAN 11						SUNSET: 1741											
03	CLR	NC			10.00		31	24	29	75	0	00	30.37	30.49	03	FEW	250			10.00		24	21	23	88	0	00	30.45	30.57						
06	CLR	NC			10.00		29	23	27	78	3	32	30.37	30.49	06	FEW	250			10.00		25	22	24	88	0	00	30.42	30.54						
09	FEW	250			10.00		34	26	31	73	5	02	30.40	30.52	09	BKN	250			10.00		32	29	31	89	0	00	30.43	30.55						
12	SCT	250			10.00		43	23	35	45	3	06	30.37	30.48	12	BKN	250			10.00		50	30	42	46	3	25	30.40	30.52						
15	BKN	250			10.00		47	24	38	41	0	00	30.27	30.38	15	OVC	250			10.00		54	35	45	49	6	27	30.30	30.42						
18	BKN	250			10.00		40	30	36	68	0	00	30.26	30.37	18	SCT	250			10.00		49	36	43	61	0	00	30.29	30.41						
21	FEW	250			10.00		36	29	33	76	0	00	30.26	30.37	21	FEW	250			10.00		41	35	38	79	0	00	30.34	30.45						
24	CLR	NC			10.00		34	30	32	85	0	00	30.24	30.36	24	CLR	NC			10.00		37	35	36	93	0	00	30.34	30.45						
SUNRISE: 0718						JAN 06						SUNRISE: 0718						JAN 12						SUNSET: 1741											
03	CLR	NC			9.00		31	28	30	89	0	00	30.19	30.32	03	CLR	NC			9.00		35	33	34	92	0	00	30.32	30.44						
06	OVC	065			9.00		34	31	33	89	0	00	30.16	30.28	06	CLR	NC			7.00		34	33	34	96	0	00	30.32	30.45						
09	OVC	060			10.00		40	36	38	86	7	11	30.18	30.29	09	SCT	250			8.00		43	40	42	89	0	00	30.37	30.49						
12	OVC	044			10.00		47	40	44	77	8	11	30.13	30.24	12	FEW	250			10.00		59	38	49	46	5	31	30.35	30.47						
15	OVC	045			10.00		54	46	50	75	15	13	30.02	30.13	15	FEW	250			10.00		63	34	49	34	6	31	30.27	30.39						
18	OVC	027			10.00		53	48	50	83	9	11	29.98	30.10	18	SCT	250			10.00		54	37	46	53	0	00	30.27	30.40						
21	OVC	027			10.00	-RA	51	48	49	90	9	11	29.98	30.10	21	CLR	NC			10.00		43	35	40	73	0	00	30.29	30.41						
24	OVC	043			10.00		52	49	50	90	8	09	29.97	30.08	24	SCT	250			10.00		40	35	38	82	3	33	30.29	30.41						

# OBSERVATIONS AT 3-HOURLY INTERVALS

**HOUSTON, TX**  
**JANUARY 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						
<b>SUNRISE: 0718</b>						<b>JAN 13</b>						<b>SUNSET: 1742</b>						<b>SUNRISE: 0717</b>						<b>JAN 19</b>						<b>SUNSET: 1747</b>					
03	BKN	250			9.00		37	35	36	93	0	00	30.29	30.40	03	BKN	250			10.00		62	58	60	87	7	16	29.86	29.97						
06	BKN	250			9.00		36	34	35	92	0	00	30.27	30.40	06	SCT	250			9.00		61	58	59	90	5	17	29.85	29.95						
09	BKN	250			8.00		43	39	41	86	6	12	30.29	30.41	09	SCT	045			7.00		64	61	62	90	7	17	29.87	29.98						
12	BKN	250			10.00		57	43	50	60	5	13	30.26	30.37	12	BKN	040			10.00		73	63	67	71	10	19	29.83	29.93						
15	OVC	250			10.00		58	46	52	65	9	15	30.16	30.27	15	BKN	060			10.00		77	61	67	58	14	18	29.74	29.85						
18	BKN	250			10.00		52	44	48	74	9	15	30.14	30.25	18	SCT	060			10.00		72	63	66	73	10	16	29.72	29.83						
21	OVC	095			10.00		50	44	47	80	6	12	30.14	30.25	21	OVC	041			9.00		69	65	66	87	11	16	29.72	29.83						
24	OVC	110			10.00		48	45	47	89	6	10	30.10	30.22	24	OVC	040			10.00		69	65	66	87	10	16	29.72	29.83						
<b>SUNRISE: 0718</b>						<b>JAN 14</b>						<b>SUNRISE: 0717</b>						<b>JAN 20</b>						<b>SUNSET: 1748</b>											
03	OVC	100			8.00		47	46	47	96	6	09	30.03	30.15	03	OVC	050			9.00		68	65	66	90	5	15	29.72	29.83						
06	OVC	100			6.00	BR	49	47	48	93	7	10	30.01	30.12	06	OVC	070			6.00	BR	66	65	65	97	5	16	29.67	29.78						
09	OVC	005			1.50	BR	51	50	50	96	9	10	30.03	30.15	09	OVC	003			0.75	BR	67	65	66	93	9	15	29.66	29.77						
12	OVC	080			1.50	BR	56	54	55	93	10	11	30.02	30.13	12	OVC	060			10.00		73	67	69	82	13	17	29.61	29.72						
15	OVC	040			3.00	BR	58	55	56	90	11	12	29.96	30.07	15	OVC	021			6.00	BR	71	68	69	90	9	17	29.50	29.60						
18	OVC	009			3.00	BR	57	54	55	90	10	11	29.97	30.09	18	OVC	019			6.00	-RA BR	70	67	68	90	11	17	29.46	29.57						
21	OVC	250			9.00		54	51	52	90	9	07	29.97	30.08	21	OVC	022			6.00	BR	70	67	68	90	6	21	29.50	29.61						
24	OVC	110			7.00		53	52	52	96	9	06	29.96	30.07	24	SCT	250			6.00	BR	65	63	64	93	3	22	29.51	29.62						
<b>SUNRISE: 0718</b>						<b>JAN 15</b>						<b>SUNRISE: 0717</b>						<b>JAN 21</b>						<b>SUNSET: 1749</b>											
03	OVC	110			10.00		53	50	51	90	8	07	29.95	30.06	03	OVC	003			0.25	BR	64	63	63	97	7	25	29.52	29.63						
06	OVC	100			9.00		53	49	51	86	7	05	29.95	30.06	06	SCT	004			4.00	BR	60	59	59	97	7	22	29.58	29.68						
09	OVC	080			10.00		52	47	49	83	10	06	29.94	30.05	09	FEW	013			10.00		61	57	59	87	6	26	29.63	29.73						
12	OVC	085			10.00	-RA	54	47	50	77	16	04	29.92	30.03	12	FEW	250			10.00		74	39	56	28	8	29	29.63	29.74						
15	OVC	090			10.00		53	46	49	77	15	03	29.81	29.91	15	CLR	NC			10.00		77	35	56	22	8	30	29.59	29.70						
18	OVC	021			4.00	RA BR	53	51	52	93	17	04	29.80	29.91	18	CLR	NC			10.00		67	35	51	31	3	27	29.62	29.73						
21	OVC	019			4.00	+RA BR	51	48	49	90	11	05	29.85	29.96	21	CLR	NC			10.00		57	44	50	62	0	00	29.69	29.80						
24	OVC	013			7.00		50	48	49	93	16	04	29.80	29.91	24	CLR	NC			10.00		53	41	47	64	0	00	29.73	29.83						
<b>SUNRISE: 0718</b>						<b>JAN 16</b>						<b>SUNRISE: 0716</b>						<b>JAN 22</b>						<b>SUNSET: 1750</b>											
03	OVC	013			7.00	-RA	49	47	48	93	9	36	29.80	29.91	03	CLR	NC			10.00		49	42	46	77	0	00	29.71	29.82						
06	OVC	005			2.00	-RA BR	48	47	48	96	10	01	29.78	29.89	06	CLR	NC			10.00		48	41	45	77	6	10	29.70	29.81						
09	OVC	008			5.00	-RA BR	48	46	47	93	13	34	29.84	29.95	09	CLR	NC			10.00		57	45	51	64	6	10	29.76	29.87						
12	OVC	021			9.00		48	45	47	89	11	35	29.81	29.92	12	CLR	NC			10.00		71	46	57	41	11	15	29.74	29.85						
15	OVC	009			8.00		50	45	48	83	15	32	29.77	29.88	15	CLR	NC			10.00		75	50	61	42	11	11	29.63	29.74						
18	BKN	035			10.00		52	44	48	74	9	33	29.77	29.88	18	CLR	NC			10.00		65	55	59	70	14	14	29.61	29.72						
21	OVC	044			10.00		51	43	47	74	7	30	29.84	29.95	21	OVC	021			7.00		64	60	62	87	13	15	29.59	29.70						
24	CLR	NC			10.00		45	39	42	80	8	28	29.87	29.98	24	BKN	019			8.00		68	62	64	81	10	16	29.56	29.67						
<b>SUNRISE: 0718</b>						<b>JAN 17</b>						<b>SUNRISE: 0716</b>						<b>JAN 23</b>						<b>SUNSET: 1751</b>											
03	CLR	NC			9.00		45	41	43	86	6	27	29.87	29.98	03	BKN	016			8.00		67	62	64	84	14	16	29.50	29.61						
06	CLR	NC			6.00	BR	41	40	41	96	6	25	29.87	29.98	06	OVC	028			8.00		68	62	64	81	5	19	29.53	29.64						
09	SCT	250			6.00	BR	47	45	46	93	3	31	29.95	30.06	09	OVC	250			5.00	HZ	68	63	65	84	8	14	29.52	29.62						
12	OVC	250			10.00		60	46	53	60	6	32	29.95	30.06	12	OVC	032			5.00	HZ	70	64	66	81	9	14	29.45	29.56						
15	OVC	250			10.00		63	45	54	52	6	VR	29.89	30.01	15	OVC	041			6.00	HZ	74	63	67	69	5	19	29.36	29.47						
18	BKN	250			10.00		55	46	50	72	0	00	29.91	30.02	18	OVC	055			10.00		68	48	57	49	22	34	29.45	29.56						
21	CLR	NC			10.00		48	46	47	93	0	00	29.94	30.05	21	FEW	050			10.00		60	44	52	56	0	00	29.49	29.59						
24	FEW	250			7.00		44	43	44	96	0	00	29.95	30.06	24	SCT	130			10.00		56	44	50	64	5	23	29.53	29.64						
<b>SUNRISE: 0717</b>						<b>JAN 18</b>						<b>SUNRISE: 0716</b>						<b>JAN 24</b>						<b>SUNSET: 1752</b>											
03	FEW	250			8.00		41	39	40	93	0	00	29.95	30.06	03	FEW	130			10.00		56	40	48	55	6	24	29.53	29.64						
06	CLR	NC			8.00	MIFG	40	40	40	100	0	00	29.95	30.06	06	SCT	130			10.00		55	36	46	49	9	24	29.54	29.65						
09	SCT	250			10.00		53	48	50	83	5	15	29.98	30.09	09	FEW	130			10.00		58	32	46	37	11	27	29.58	29.68						
12	BKN	250			10.00		67	54	60	63	11	18	29.96	30.08	12	CLR	NC			10.00		64	33	49	32	13	27	29.57	29.68						
15	OVC	060			10.00		70	57	62	64	11	18	29.89	30.00	15	FEW	050			10.00		67	37	52	33	20	31	29.54	29.64						
18	SCT	250			10.00		62	56	59	81	9	12	29.88	29.99	18	SCT	110			10.00		63	38	51	40	18	31	29.62	29.73						
21	BKN	250			8.00		60	56	58	87	5	14	29.90	30.01	21	CLR	NC			10.00		54	35	45	49	7	29	29.75	29.86						
24	BKN	250			10.00		62	58	60	87	5	18	29.90	30.01	24	CLR	NC			10.00		51	37	45	59	6	29	29.82	29.93						

# OBSERVATIONS AT 3-HOURLY INTERVALS

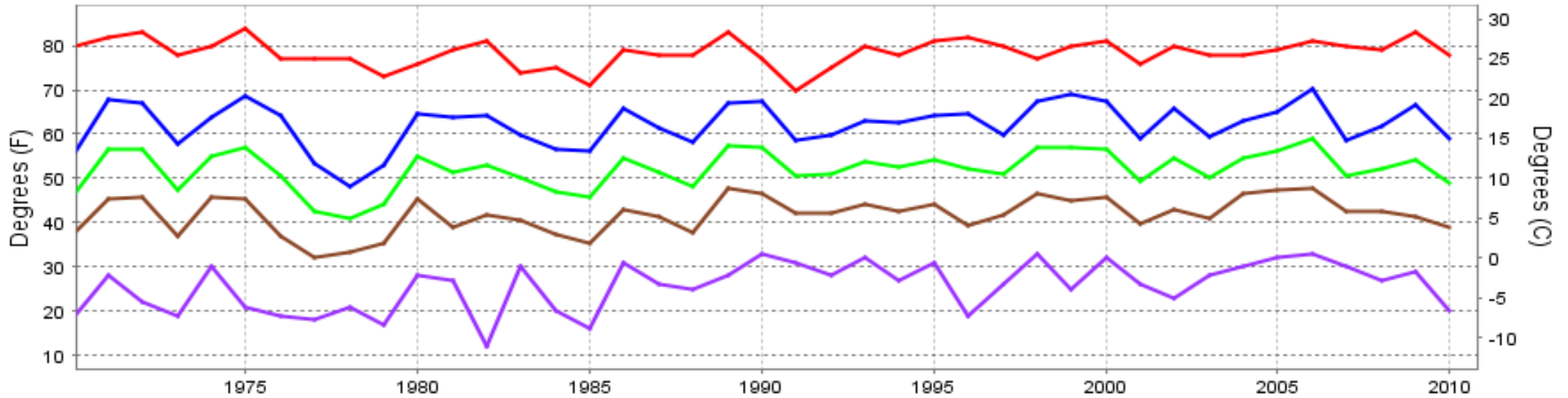
HOUSTON, TX  
JANUARY 2010

KIAH

WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)																																
			Observation Time (LST)	Eff Clد Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL																													
<b>SUNRISE: 0715</b>						<b>JAN 25</b>						<b>SUNSET: 1752</b>																															
03	CLR	NC			10.00	44	38	41	80	0	00	29.83	29.94	03	CLR	NC			10.00	49	37	38	93	0	00	29.85	29.96	06	CLR	NC			10.00	49	41	45	74	0	00	29.93	30.04		
09	CLR	NC			10.00	59	32	47	36	0	00	29.94	30.05	12	SCT	140			10.00	65	33	50	30	9	22	29.86	29.97	15	SCT	250			10.00	59	36	48	42	3	31	29.90	30.01		
12	SCT	140			10.00	51	44	48	77	0	00	29.96	30.06	18	BKN	250			10.00	48	45	47	89	3	02	30.00	30.11	21	BKN	250			10.00	48	45	47	89	3	02	30.00	30.11		
15	SCT	250			10.00	46	41	44	83	3	36	30.03	30.14	24	BKN	250			10.00	43	37	40	79	0	00	30.06	30.18	03	SCT	250			10.00	52	38	45	59	6	08	30.13	30.24		
18	BKN	250			10.00	69	29	50	22	0	00	30.06	30.18	06	FEW	250			10.00	65	31	49	28	7	07	30.14	30.27	09	CLR	NC			10.00	62	32	48	32	9	16	30.09	30.20		
21	BKN	250			10.00	62	32	48	32	9	16	30.09	30.20	12	CLR	NC			10.00	53	34	44	49	6	16	30.11	30.22	15	FEW	140			10.00	48	42	45	80	6	14	30.09	30.20		
24	BKN	250			10.00	48	42	45	80	6	14	30.09	30.20	18	FEW	140			10.00	59	29	50	22	0	00	30.06	30.18	21	CLR	NC			10.00	53	34	44	49	6	16	30.11	30.22		
<b>SUNRISE: 0715</b>						<b>JAN 26</b>						<b>SUNSET: 1753</b>																															
03	SCT	250			10.00	45	42	44	89	0	00	30.06	30.17	06	FEW	250			10.00	51	48	49	90	0	00	30.06	30.18	09	CLR	NC			10.00	55	50	52	83	8	11	30.13	30.24		
06	FEW	250			10.00	62	51	56	67	10	12	30.11	30.23	12	CLR	NC			10.00	67	54	60	63	20	12	30.03	30.15	15	CLR	NC			10.00	63	54	58	73	14	12	30.06	30.17		
09	CLR	NC			10.00	59	53	56	81	13	12	30.08	30.19	18	BKN	100			10.00	59	53	56	81	13	12	30.08	30.19	21	BKN	040			10.00	59	53	56	81	13	12	30.08	30.19		
12	CLR	NC			10.00	59	54	56	84	10	12	30.09	30.20	24	BKN	090			10.00	59	54	56	84	10	12	30.09	30.20	03	CLR	NC			10.00	56	54	55	93	8	10	30.06	30.17		
15	FEW	140			10.00	64	57	60	78	17	12	30.01	30.11	06	BKN	090			10.00	57	55	56	93	8	09	30.03	30.15	09	OVC	250			10.00	59	56	57	90	11	11	30.06	30.16		
18	FEW	140			10.00	64	59	61	84	16	12	29.86	29.97	12	OVC	100			10.00	64	57	60	78	17	12	30.01	30.11	15	OVC	100			10.00	65	58	61	78	14	13	29.90	30.01		
21	CLR	NC			10.00	63	59	61	87	15	13	29.85	29.95	18	BKN	100			10.00	64	59	61	84	16	12	29.86	29.97	21	OVC	013			10.00	63	59	61	87	15	13	29.85	29.95		
24	CLR	NC			10.00	62	61	61	97	16	12	29.78	29.88	24	BKN	040			10.00	63	59	61	87	15	13	29.85	29.95	03	OVC	011			9.00	63	59	61	87	15	13	29.85	29.95		
<b>SUNRISE: 0714</b>						<b>JAN 27</b>						<b>SUNSET: 1754</b>																															
03	CLR	NC			10.00	62	61	61	97	16	12	29.78	29.88	06	BKN	090			10.00	56	54	55	93	8	10	30.06	30.17	09	OVC	250			10.00	57	55	56	93	8	09	30.03	30.15		
06	BKN	090			10.00	59	56	57	90	11	11	30.06	30.16	12	OVC	100			10.00	64	57	60	78	17	12	30.01	30.11	15	OVC	100			10.00	65	58	61	78	14	13	29.90	30.01		
09	OVC	250			10.00	64	59	61	84	16	12	29.86	29.97	18	BKN	100			10.00	64	59	61	84	16	12	29.86	29.97	21	OVC	013			10.00	63	59	61	87	15	13	29.85	29.95		
12	OVC	100			10.00	63	59	61	87	15	13	29.85	29.95	24	BKN	090			10.00	62	61	61	97	16	12	29.78	29.88	03	OVC	011			9.00	63	59	61	87	15	13	29.85	29.95		
15	OVC	100			10.00	62	61	61	97	16	12	29.78	29.88	<b>SUNRISE: 0714</b>						<b>JAN 28</b>						<b>SUNSET: 1755</b>																	
18	BKN	100			10.00	56	54	55	93	8	10	30.06	30.17	06	BKN	100			10.00	57	55	56	93	8	09	30.03	30.15	09	OVC	095			10.00	59	56	57	90	11	11	30.06	30.16		
21	BKN	040			10.00	64	59	61	84	16	12	29.86	29.97	12	OVC	100			10.00	64	57	60	78	17	12	30.01	30.11	15	OVC	020			10.00	65	58	61	78	14	13	29.90	30.01		
24	BKN	090			10.00	63	59	61	87	15	13	29.85	29.95	18	OVC	013			10.00	64	59	61	84	16	12	29.86	29.97	21	OVC	011			9.00	63	59	61	87	15	13	29.85	29.95		
<b>SUNRISE: 0714</b>						<b>JAN 29</b>						<b>SUNSET: 1756</b>																															
03	BKN	095			10.00	62	61	61	97	16	12	29.78	29.88	06	BKN	100			10.00	63	62	62	97	9	14	29.71	29.82	09	OVC	095			10.00	59	56	57	90	11	11	30.06	30.16		
06	BKN	100			10.00	64	59	61	84	16	12	29.86	29.97	12	OVC	013			10.00	64	59	61	84	16	12	29.86	29.97	15	OVC	020			10.00	65	58	61	78	14	13	29.90	30.01		
09	OVC	095			10.00	63	59	61	87	15	13	29.85	29.95	18	OVC	013			10.00	64	59	61	84	16	12	29.86	29.97	21	OVC	011			9.00	63	59	61	87	15	13	29.85	29.95		
12	OVC	100			10.00	62	61	61	97	16	12	29.78	29.88	24	OVC	006			4.00	RA BR	62	61	61	97	16	12	29.78	29.88	03	OVC	011			9.00	63	59	61	87	15	13	29.85	29.95	
15	OVC	020			10.00	64	59	61	84	16	12	29.86	29.97	<b>SUNRISE: 0713</b>						<b>JAN 29</b>						<b>SUNSET: 1756</b>																	
18	OVC	013			10.00	63	59	61	87	15	13	29.85	29.95	06	OVC	050			8.00	RA BR -TSRA	61	62	62	97	9	14	29.71	29.82	09	OVC	095			10.00	59	56	57	90	11	11	30.06	30.16	
21	OVC	011			9.00	63	59	61	87	15	13	29.85	29.95	12	OVC	005			10.00	-RA	53	51	52	93	17	32	29.80	29.91	15	OVC	100			10.00	64	57	60	78	17	12	30.01	30.11	
24	OVC	006			4.00	RA BR	62	61	61	97	16	12	29.78	29.88	18	OVC	012			10.00		50	47	48	90	13	35	29.83	29.94	21	OVC	019			10.00	45	38	42	77	18	32	29.87	29.98
<b>SUNRISE: 0713</b>						<b>JAN 30</b>						<b>SUNSET: 1757</b>																															
03	OVC	003			0.50	RA BR	63	62	62	97	9	14	29.71	29.82	06	OVC	008			10.00	46	43	45	89	18	32	29.81	29.92	09	OVC	019			10.00	45	38	42	77	18	32	29.87	29.98	
06	OVC	050			8.00	-TSRA	61	60	60	97	7	32	29.69	29.80	12	OVC	019			10.00	40	33	37	76	17	33	29.94	30.05	15	OVC	008			10.00	46	43	45	89	18	32	29.81	29.92	
09	OVC	005			10.00	-RA	53	51	52	93	17	32	29.80	29.91	18	OVC	019			10.00	45	38	42	77	18	32	29.87	29.98	21	OVC	019			10.00	40	33	37	76	17	33	29.94	30.05	
12	OVC	012			10.00		50	47	48	90	13	35	29.83	29.94	24	BKN	021			10.00	38	31	35	76	14	31	29.97	30.08	03	SCT	022			10.00	35	28	32	76	10	32	29.96	30.07	
15	OVC	008			10.00		46	43	45	89	18	32	29.81	29.92	06	BKN	032			10.00	35	29	33	79	13	31	30.00	30.11	09	OVC	018			10.00	36	29	33	76	15	35	30.06	30.17	
18	OVC	019			10.00		45	38	42	77	18	32	29.87	29.98	12	OVC	022			10.00	38	29	34	70	11	36	30.09	30.20	15	OVC	022			10.00	38	29	34	70	14	33	30.05	30.16	
21	OVC	019			10.00		40	33	37	76	17	33	29.94	30.05	18	OVC	022			10.00	36	28	33	73	14	36	30.08	30.19	21	OVC</													

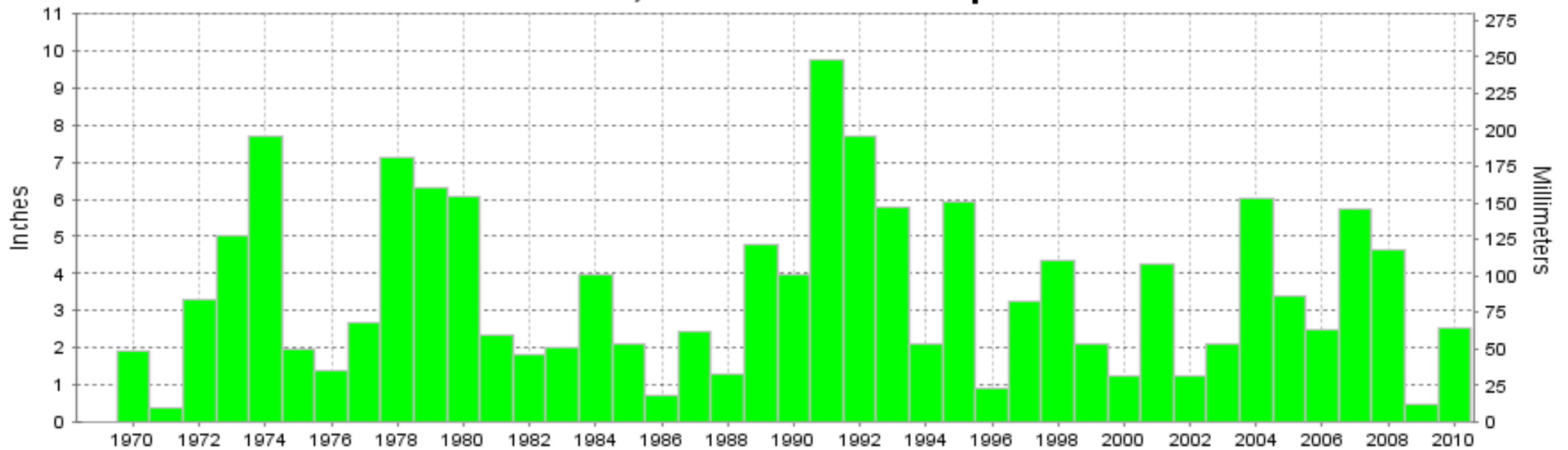
## HOUSTON, TX JANUARY Temperatures



— Extreme Max — Mean Max — Mean — Mean Min — Extreme Min

Long-Term (1970-2010) Mean: 52.0  
1971-2000 Normal: 51.8

## HOUSTON, TX JANUARY Precipitation



Long-Term (1970-2010) Mean Monthly Total: 3.46

1971-2000 Normal: 3.68



JANUARY 2010  
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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