



FEBRUARY 2013 LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

HOUSTON, TX
G BUSH INTERCONTINENTAL AP/HOUSTON AP (KIAH)
 Lat:29° 58'N Long: 95° 21'W Elev (Ground) 95 Feet
 Time Zone : CENTRAL WBAN: 12960 ISSN#: 0198-5094



Date 1	Temperature °F						Deg Days BASE 65°		WEATHER 10	SNOW/ICE ON GND(IN)		PRECIPITATION ON GND(IN)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								Date 24
	MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEP FROM NORMAL 5	AVERAGE DEW PT 6	AVERAGE WET BULB 7	HEATING 8	COOLING 9		0600 LST 11	1200 LST 12	2400 LST 13	2400 LST 14	AVERAGE STATION 15	AVERAGE SEA LEVEL 16	RESULTANT SPEED 17	RES DIR 18	AVERAGE SPEED 19	MAXIMUM					
																			3-SEC		2-MIN			
01	70	43	57	4	39	48	8	0		0		0.0	0.00	30.17	30.30	4.6	15	5.2	25	14	21	15	01	
02	76	46	61	8	49	54	4	0		0		0.0	0.00	30.11	30.23	0.8	21	2.3	15	27	9	29	02	
03	72	48	60	7	38	50	5	0		0		0.0	0.00	30.09	30.22	1.7	08	5.4	15	14	12	14	03	
04	72	53	63	10	57	59	2	0	RA BR	0		0.0	0.06	29.80	29.95	4.6	14	4.9	16	16	14	16	04	
05	79*	58	69*	16	62	64	0	4	RA FG+ FG BR HZ	0		0.0	0.01	29.83	29.94	4.4	13	5.3	18	14	16	15	05	
06	65	60	63	9	62	62	2	0	RA BR	0		0.0	0.36	29.85	29.97	7.7	11	7.9	24	11	20	11	06	
07	73	57	65	11	60	62	0	0		0		0.0	0.00	29.83	29.94	1.2	14	3.8	14	23	10	23	07	
08	71	50	61	7	50	55	4	0		0		0.0	0.00	30.01	30.11	7.1	01	9.3	22	04	17	06	08	
09	69	49	59	5	57	59	6	0	RA	0		0.0	T	29.88	30.01	12.7	12	13.8	30	14	25	14	09	
10	74	58	66	12	58	61	0	1	RA BR	0		0.0	0.11	29.78	29.89	1.9	18	8.4	32	19	25	16	10	
11	63	53	58	3	50	53	7	0	RA BR	0		0.0	0.07	29.89	30.01	10.2	04	11.5	24	06	21	06	11	
12	64	53	59	4	54	55	6	0	RA BR	0		0.0	0.06	29.77	29.89	3.1	01	6.9	23	33	16	33	12	
13	61	43	52	-3	39	46	13	0		0		0.0	0.00	29.96	30.07	8.8	34	9.2	30	33	21	33	13	
14	67	34*	51	-4	37	44	14	0		0		0.0	0.00	29.98	30.10	1.6	16	2.4	12	18	9	13	14	
15	69	39	54	-1	39	46	11	0	RA	0		0.0	T	30.11	30.20	6.8	35	7.6	31	03	24	01	15	
16	61	39	50	-6	27	40	15	0		0		0.0	0.00	30.21	30.33	4.5	33	5.5	26	33	17	32	16	
17	72	36	54	-2	40	48	11	0		0		0.0	0.00	30.03	30.17	8.1	18	8.6	29	16	23	16	17	
18	74	55	65	9	57	61	0	0	TSRA RA BR	0		0.0	0.33	29.85	29.96	10.4	18	11.5	38	33	31*	33	18	
19	69	46	58	2	37	48	7	0		0		0.0	0.00	30.06	30.17	6.7	07	8.6	22	09	17	09	19	
20	60	50	55	-1	46	50	10	0	RA BR	0		0.0	0.03	29.85	30.00	15.4	11	15.6	30	11	24	12	20	
21	75	53	64	7	58	62	1	0	RA BR	0		0.0	0.28	29.65	29.76	7.7	15	12.0	35	13	26	14	21	
22	65	54	60	3	46	52	5	0		0		0.0	0.00	29.83	29.93	9.2	01	9.5	18	02	16	01	22	
23	70	47	59	2	44	50	6	0		0		0.0	0.00	29.83	29.95	4.9	01	5.7	18	02	15	03	23	
24	70	43	57	0	48	53	8	0		0		0.0	0.00	29.69	29.84	7.5	11	8.0	23	10	17	13	24	
25	76	48	62	4	43	53	3	0	RA FG+ BR	0		0.0	0.01	29.52	29.63	8.2	28	13.2	41*	26	30	29	25	
26	64	44	54	-4	34	45	11	0		0		0.0	0.00	29.77	29.86	9.2	29	9.5	33	29	23	29	26	
27	69	42	56	-2	35	46	9	0		0		0.0	0.00	29.93	30.03	7.0	32	8.7	32	35	26	35	27	
28	59	41	50*	-8	28	40	15	0		0		0.0	0.00	30.11	30.21	9.2	33	9.8	24	32	20	34	28	

68.9	47.9	58.4	☼	46.2	52.4	6.5	0.2	< MONTHLY AVERAGES TOTALS >				0.0	1.32	29.91	30.02	1.5	07	8.2	< MONTHLY AVERAGES				
2.6	1.4	2.0		-----DEPARTURE FROM NORMAL -----										-1.88	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3								
DEGREE DAYS								GREATEST 24-HR PRECIPITATION : 0.36 DATE : 06				SEA LEVEL PRESSURE				DATE TIME							
MONTHLY								GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.45				16 1002							
TOTAL DEPARTURE								GREATEST SNOW DEPTH : 0 DATE :				MINIMUM : 29.51				25 1453							
SEASON TO DATE								NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 0				MINIMUM TEMP <= 32 : 0				PRECIPITATION >= 0.01 INCH : 10			
HEATING : 183 -81 930 -258								MAXIMUM TEMP <= 32 : 0				MINIMUM TEMP <= 0 : 0				PRECIPITATION >= 0.10 INCH : 4							
COOLING : 5 -18 40 2								THUNDERSTORMS : 1				HEAVY FOG : 2				SNOWFALL >= 1.0 INCH : 0							

**FEBRUARY 2013
HOUSTON, TX**

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX (KIAH)
FEBRUARY 2013

WBAN # 12960

Date	FOR HOUR (LST) ENDING AT												Date	FOR HOUR (LST) ENDING AT												Date	Sum of Hourly Data	2400 LST Water Equiv.
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			
01													01												01	0.00	0.00	
02													02												02	0.00	0.00	
03													03												03	0.00	0.00	
04												T	04			0.01	0.03	0.01	0.01					04	0.06	0.06		
05											0.01		05											05	0.01	0.01		
06				T	T		0.01	T	0.01	0.05	0.10	0.04	06	0.02	0.12	0.01				T	T			06	0.36	0.36		
07													07											07	0.00	0.00		
08													08											08	0.00	0.00		
09													09						T	T	T			09	T	T		
10	0.01			T								T	10	T	T									10	0.11	0.11		
11													11	T	T		0.01	0.03	T	T				11	0.07	0.07		
12	T	0.01	0.02	T	T	0.03	T	0.01				T	12	T	T	T	0.01	0.03						12	0.06	0.06		
13													13											13	0.00	0.00		
14													14											14	0.00	0.00		
15													15								T	T	T	T	15	T	T	
16													16											16	0.00	0.00		
17													17											17	0.00	0.00		
18													18	T		0.03	T	T	T			0.30		18	0.33	0.33		
19													19											19	0.00	0.00		
20													20	T	T									20	0.03	0.03		
21	T		T	T	0.03	0.03	0.04	0.07	T			0.02	21	0.09	T									21	0.28	0.28		
22													22											22	0.00	0.00		
23													23											23	0.00	0.00		
24													24											24	0.00	0.00		
25												T	25											25	0.01	0.01		
26													26											26	0.00	0.00		
27													27											27	0.00	0.00		
28													28											28	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)	0.22	0.29	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Ending Date	18	18	18	18	18	18	18	18	18	18	18	18
Ending Time (Hr/Min)	2210	2215	2216	2216	2216	2216	2216	2216	2216	2216	2216	2216

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 1981-2010

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 Unknwn Precipitation		

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

HOUSTON, TX FEBRUARY 2013

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:

Beginning with the January 2013 LCD, monthly mean temperature calculations have changed to the National Data Stewardship Team standard. Monthly maximum and minimum temperature are not rounded until after monthly mean temperature is calculated. This is the most accurate outcome, but may be slightly different from the mean derived from rounded monthly maximum and minimum.

Date	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							2.00	10.00	
05							0.25	10.00	
06							0.50	10.00	
07							8.00	10.00	
08							10.00	10.00	
09							9.00	10.00	
10							9.00	10.00	
11							1.00	10.00	
12							0.50	10.00	
13							6.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							10.00	10.00	
19							10.00	10.00	
20							3.00	10.00	
21							2.00	10.00	
22							5.00	10.00	
23							10.00	10.00	
24							10.00	10.00	
25							0.00	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							10.00	10.00	
MONTHLY AVGS							7.01	10.00	
SUNSHINE (Minutes)									
Total : 0					Possible : 18712				
Percent Possible : 0									
NUMBER OF DAYS WITH : SKY CONDITION									
Clear		Partly CLDY			Cloudy		Missing		
MINIMUM VISIBILITY (MILES)									
<= .25		<= 3.0				>= 7.0			
2		8				18			

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX
FEBRUARY 2013

KIAH

WBAN # 12960

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
SUNRISE: 0652			FEB 25			SUNSET: 1817								
03	OVC	008				62	59	60	90	8	12	29.48	29.58	
06	VV	002			FG	62	61	61	97	0	00	29.49	29.59	
09	OVC	004			BR	63	63	63	100	7	13	29.49	29.59	
12	SCT	060				73	47	59	40	14	30	29.48	29.59	
15	CLR	NC				74	13	49	10	21	25	29.40	29.51	
18	CLR	NC				61	27	46	27	18	29	29.51	29.62	
21	CLR	NC				51	29	42	43	16	28	29.62	29.73	
24	SCT	045				49	31	41	50	22	29	29.66	29.77	
SUNRISE: 0651			FEB 26			SUNSET: 1817								
03	CLR	NC				47	32	41	56	15	29	29.68	29.78	
06	CLR	NC				45	32	39	60	11	29	29.72	29.83	
09	CLR	NC				48	32	41	54	14	30	29.80	29.91	
12	FEW	250				59	33	47	38	10	31	29.80	29.91	
15	SCT	250				63	31	48	30	13	32	29.74	29.85	
18	BKN	250				61	33	48	35	5	29	29.76	29.87	
21	BKN	250				52	36	45	55	0	00	29.80	29.91	
24	SCT	200				46	38	42	74	0	00	29.82	29.93	
SUNRISE: 0650			FEB 27			SUNSET: 1818								
03	BKN	250				45	38	42	77	3	36	29.82	29.93	
06	BKN	250				44	39	42	83	0	00	29.83	29.94	
09	BKN	250				57	46	51	67	3	24	29.92	30.03	
12	SCT	250				68	34	52	29	13	28	29.93	30.03	
15	SCT	250				66	35	51	32	22	34	29.93	30.04	
18	SCT	250				61	32	48	34	14	34	29.95	30.06	
21	FEW	250				53	28	42	38	9	33	30.02	30.13	
24	CLR	NC				50	26	40	39	7	32	30.05	30.16	
SUNRISE: 0649			FEB 28			SUNSET: 1819								
03	CLR	NC				46	25	38	44	11	34	30.06	30.18	
06	CLR	NC				44	27	37	51	11	35	30.13	30.24	
09	BKN	200				46	27	38	48	9	34	30.18	30.29	
12	OVC	200				50	25	40	38	14	33	30.16	30.28	
15	BKN	190				58	26	44	29	14	31	30.06	30.18	
18	BKN	200				56	29	44	36	9	33	30.06	30.17	
21	BKN	250				48	30	40	50	5	28	30.10	30.21	
24	SCT	250				41	33	38	73	5	27	30.11	30.22	

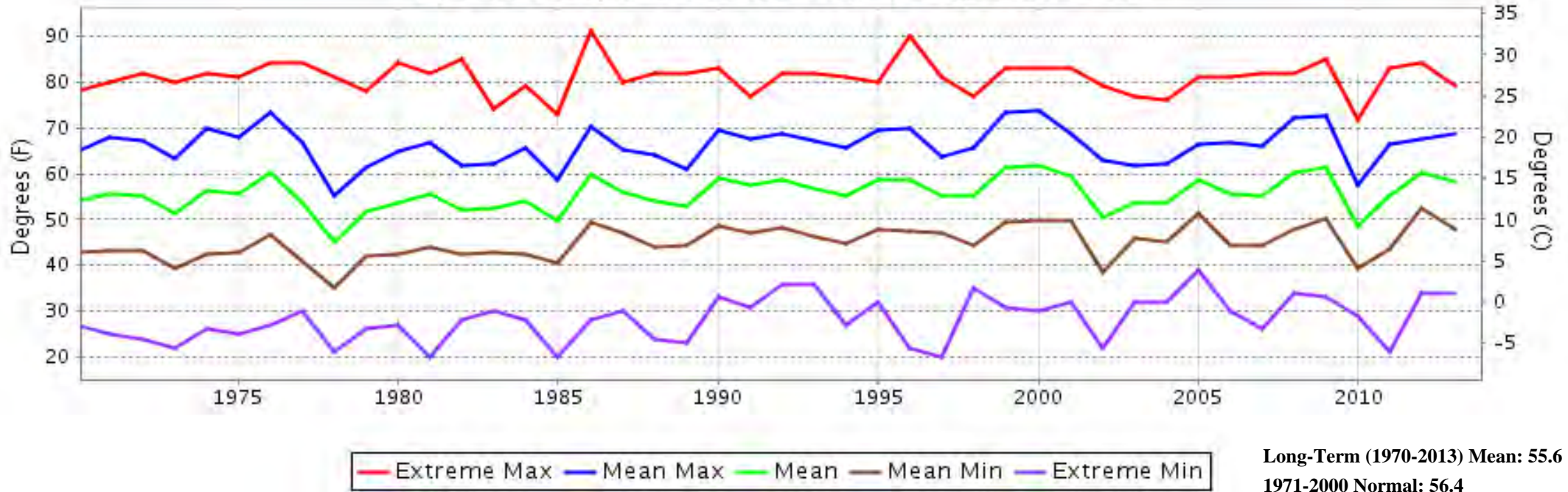
HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)			
			Observation Time (LST)	Eff Cld Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL

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.

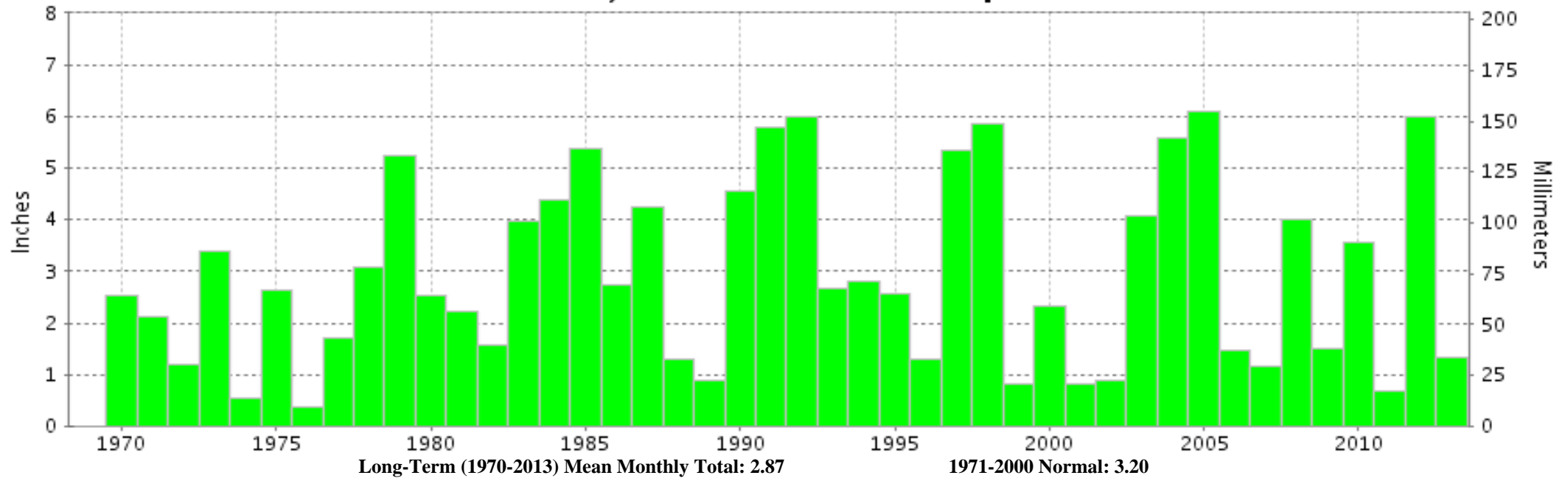
SUMMARY BY HOUR

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			55	47	51	77	29.91	30.02	9.22	7	2	08
02			54	46	50	77	29.92	30.03	9.23	7	2	08
03			53	46	50	78	29.91	30.02	9.44	7	1	07
04			53	46	50	79	29.90	30.02	9.04	7	2	08
05			52	46	49	81	29.91	30.02	8.80	6	1	06
06			52	46	49	82	29.92	30.03	8.71	6	2	08
07			51	46	49	83	29.93	30.04	8.68	7	2	08
08			53	47	50	81	29.94	30.05	8.41	7	2	08
09			57	48	52	75	29.96	30.07	8.36	9	3	08
10			60	48	54	67	29.96	30.07	8.65	10	3	08
11			62	47	55	61	29.96	30.07	9.14	10	1	08
12			64	46	55	57	29.95	30.06	9.39	9	1	06
13			65	46	55	54	29.92	30.03	9.25	9	0	02
14			66	45	56	52	29.89	30.00	9.42	10	0	35
15			67	44	56	50	29.87	29.99	9.48	11	1	05
16			66	45	55	51	29.86	29.98	9.34	10	1	06
17			65	44	55	52	29.87	29.98	9.64	11	2	08
18			63	45	54	57	29.87	29.98	9.36	10	2	08
19			60	46	53	61	29.89	30.00	9.54	8	2	08
20			59	46	53	66	29.90	30.01	9.39	9	3	08
21			57	47	52	70	29.91	30.02	9.50	8	2	08
22			56	47	52	72	29.92	30.03	9.75	7	2	08
23			55	47	51	76	29.92	30.03	9.54	6	3	08
24			55	47	51	75	29.92	30.03	9.61	7	2	08

HOUSTON, TX FEBRUARY Temperatures



HOUSTON, TX FEBRUARY Precipitation





**FEBRUARY 2013
HOUSTON, TX**

**LOCAL CLIMATOLOGICAL DATA
NOAA, National Climatic Data Center**

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