



OCTOBER 2014 LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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



OCTOBER 2014
HOUSTON, TX

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			
									DEPTH 11	WATER- EQUIV 12	SNOW- FALL 13	WATER EQUIV 14			SPEED 17	DIR 18	AVERAGE SPEED 19	SPEED 20	DIR 21	SPEED 22	DIR 23			
01	93	72	83	8	74	77	0	18	RA MIFG BR	0		0.0	0.09	29.70	29.81	4.6	16	5.2	23	14	20	13	01	
02	93*	71	82	7	75	78	0	17	TS TSRA RA BR	0		0.0	0.78	29.77	29.85	8.1	19	8.1	39	30	30	30	02	
03	84	63	74	-1	60	66	0	9	TS TSRA RA	0		0.0	0.32	29.96	30.05	5.9	35	7.1	28	03	21	36	03	
04	77	59	68	-6	50	57	0	3		0		0.0	0.00	29.98	30.11	3.8	05	6.9	20	04	16	04	04	
05	85	53	69	-5	59	63	0	4		0		0.0	0.00	29.82	29.95	4.9	16	5.7	21	15	16	15	05	
06	84	65	75	2	65	67	0	10	TS TSRA RA MIFG BR SQ	0		0.0	0.69	29.80	29.91	4.4	11	6.2	53*	02	33*	01	06	
07	90	65	78	5	71	73	0	13	MIFG BCFG BR	0		0.0	0.00	29.84	29.95	4.7	16	5.6	17	14	15	15	07	
08	90	69	80	7	72	74	0	15	TS TSRA RA MIFG	0		0.0	0.06	29.90	30.01	4.3	14	5.4	31	24	23	24	08	
09	90	68	79	6	70	73	0	14		0		0.0	0.00	29.85	29.97	4.6	16	5.0	18	15	13	15	09	
10	91	75	83*	11	73	76	0	18	RA BR	0		0.0	0.03	29.82	29.93	7.0	18	7.5	28	21	17	17	10	
11	85	66	76	4	69	71	0	11	RA	0		0.0	0.02	29.88	29.98	4.9	01	6.7	24	36	21	36	11	
12	87	65	76	4	70	71	0	11	TS TSRA RA BR	0		0.0	0.35	29.75	29.89	3.0	13	6.5	22	18	17	17	12	
13	85	59	72	1	63	67	0	7	TS TSRA RA BR SQ	0		0.0	0.61	29.73	29.83	4.1	24	9.5	40	31	29	28	13	
14	79	54	67	-4	49	57	0	2		0		0.0	0.00	29.94	30.04	6.7	29	7.5	25	31	20	30	14	
15	84	51*	68	-3	50	58	0	3		0		0.0	0.00	29.93	30.05	2.1	26	3.0	16	27	12	27	15	
16	87	57	72	2	56	63	0	7		0		0.0	0.00	29.84	29.97	4.6	22	5.6	16	18	13	17	16	
17	86	60	73	3	63	67	0	8	MIFG	0		0.0	0.00	29.83	29.94	3.9	19	4.6	15	17	12	20	17	
18	86	63	75	5	63	67	0	10		0		0.0	0.00	29.90	30.00	2.2	07	2.4	17	09	13	06	18	
19	81	62	72	2	62	65	0	7		0		0.0	0.00	29.93	30.05	6.8	06	6.9	14	08	9	08	19	
20	83	59	71	2	59	63	0	6		0		0.0	0.00	29.90	30.02	4.5	05	5.3	20	06	12	02	20	
21	82	55	69	0	57	62	0	4		0		0.0	0.00	29.91	30.03	4.2	07	4.8	17	09	13	07	21	
22	82	61	72	4	59	63	0	7	BCFG	0		0.0	0.00	29.96	30.06	4.6	06	5.3	18	08	14	05	22	
23	80	58	69	1	55	60	0	4		0		0.0	0.00	29.98	30.09	4.0	04	5.1	17	06	13	05	23	
24	82	54	68	0	55	59	0	3		0		0.0	0.00	30.01	30.13	2.6	04	3.1	17	36	9	02	24	
25	85	55	70	3	57	62	0	5		0		0.0	0.00	30.00	30.12	0.7	15	1.8	12	13	9	13	25	
26	85	56	71	4	60	64	0	6	MIFG	0		0.0	0.00	29.89	30.02	3.9	17	4.4	17	17	14	16	26	
27	86	58	72	5	61	66	0	7	MIFG	0		0.0	0.00	29.82	29.94	5.9	18	6.3	25	16	20	16	27	
28	86	60	73	7	64	67	0	8	MIFG	0		0.0	0.00	29.90	30.00	2.0	16	3.2	16	16	13	14	28	
29	84	61	73	7	65	67	0	8	MIFG	0		0.0	0.00	29.97	30.08	3.7	03	5.7	22	01	18	02	29	
30	79	55	67	1	54	59	0	2		0		0.0	0.00	29.98	30.09	2.6	06	3.5	14	09	10	09	30	
31	79	55	67*	1	48	56	0	2		0		0.0	0.00	30.09	30.18	8.6	35	8.8	28	03	22	01	31	
84.8		60.8	72.8	Σ	61.5	65.7	0.0	8.0	< MONTHLY AVERAGES TOTALS >				0.0	2.95	29.89	30.00	1.1	12	5.6	< MONTHLY AVERAGES				
2.8		-0.1	1.3		<----- DEPARTURE FROM NORMAL ----->								-2.75	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3										
DEGREE DAYS									GREATEST 24-HR PRECIPITATION : 1.10 DATE : 02-03				SEA LEVEL PRESSURE				DATE		TIME					
MONTHLY									GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM :				30.28		31		2253			
TOTAL DEPARTURE									GREATEST SNOW DEPTH : 0 DATE :				MINIMUM :				29.72		13		0953			
SEASON TO DATE									NUMBER OF ->				MAXIMUM TEMP >= 90 : 6		MINIMUM TEMP <= 32 : 0		PRECIPITATION >= 0.01 INCH: 9							
TOTAL DEPARTURE									MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH: 5											
HEATING : 0 -29									THUNDERSTORMS : 6		HEAVY FOG : 0		SNOWFALL >= 1.0 INCH : 0											
COOLING : 249 -20																								

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX (KIAH)
OCTOBER 2014

WBAN # 12960

Date	FOR HOUR (LST) ENDING AT												Date	FOR HOUR (LST) ENDING AT												Date	Sum of Hourly Data	2400 LST Water Equiv.
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			
01				0.09					T				01												01	0.09	0.09	
02													02												02	0.78	0.78	
03	0.20	0.12	T										03											03	0.32	0.32		
04													04											04	0.00	0.00		
05													05											05	0.00	0.00		
06													06	T										06	0.69	0.69		
07													07											07	0.00	0.00		
08													08			0.06	T							08	0.06	0.06		
09													09											09	0.00	0.00		
10													10	0.03										10	0.03	0.03		
11													11	T										11	0.02	0.02		
12													12		T									12	0.35	0.35		
13													13	0.02	T	0.34	0.01	T						13	0.61	0.61		
14													14											14	0.00	0.00		
15													15											15	0.00	0.00		
16													16											16	0.00	0.00		
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											21	0.00	0.00		
22													22											22	0.00	0.00		
23													23											23	0.00	0.00		
24													24											24	0.00	0.00		
25													25											25	0.00	0.00		
26													26											26	0.00	0.00		
27													27											27	0.00	0.00		
28													28											28	0.00	0.00		
29													29											29	0.00	0.00		
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)	0.50	0.50	0.53	0.66	0.72	0.81	0.90	0.95	0.98	1.02	1.09	1.10
Ending Date	18	18	02	02	02	03	03	03	03	03	03	03
Ending Time (Hr/Min)	1014	1014	2345	2346	2356	0006	0021	0036	0059	0116	0146	0153

Note : The hourly and daily precipitation totals are printed in the last 2 columns and hi-lighted in red when they disagree. NWS does not edit ASOS hourly values but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.

Date and time are not entered for TRACE amounts.

REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

* = Extreme for the month (last occurrence if more than one).

T = Trace precipitation amount.

+ = also occurs on earlier date.

FG+ = Heavy fog, visibility .25 miles or less.

BLANK entries denote missing or unreported data.

Resultant wind is the vector sum of the wind speeds and directions divided by the number of observations.

Wind direction is recorded in tens of degrees (2 digits) clockwise from true north. '00' = calm, 'VR' = variable.

Precipitation is for the 24-hour period ending at the time indicated in the column heading.

Ceilometer (30-second) data are used to derive cloudiness at or below 12,000 feet. This cloudiness is the mean cloud cover detected during sunrise to sunset (SR-SS), or midnight to midnight (MN-MN).

WEATHER NOTATIONS

QUALIFIER	WEATHER PHENOMENA		
DESCRIPTOR	PRECIPITATION	OBSCURATION	OTHER
BC Patches	DZ Drizzle	BR Mist	DS Duststorm
BL Blowing	GR Hail	DU Widespread Dust	FC Funnel Cloud
DR Low Drifting	GS Small Hail and/or Snow Pellets	FG Fog	+FC Tornado Waterspout
FZ Freezing	IC Ice Crystals	FU Smoke	PO Well-Developed Dust/Sand Whirls
MI Shallow	PL Ice Pellets	HZ Haze	
PR Partial	RA Rain	PY Spray	SQ Squalls
SH Shower(s)	SG Snow Grains	SA Sand	SS Sandstorm
TS Thunderstorm	SN Snow	VA Volcanic Ash	GL Glaze
VC In the Vicinity	UP Unkown Precipitation		

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

HOUSTON, TX OCTOBER 2014

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet.

Clear = 0-2 oktas, Partly Cloudy = 3-6 oktas, Cloudy = 7-8 oktas.

A Heating (Cooling) Degree Day is the difference between the average daily temperature and 65 degrees F. The HDD season begins July 1, the CDD season begins January 1.

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

NORMALS ARE FOR THE YEARS 1981-2010

ADDITIONAL NOTES & ERRATA:

Date	VISIBILITY (MILES)	
	MINIMUM	MAXIMUM
01	7.00	10.00
02	2.00	10.00
03	6.00	10.00
04	6.00	10.00
05	10.00	10.00
06	3.00	10.00
07	6.00	10.00
08	10.00	10.00
09	10.00	10.00
10	6.00	10.00
11	10.00	10.00
12	0.50	10.00
13	5.00	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	10.00	10.00
21	10.00	10.00
22	8.00	10.00
23	10.00	10.00
24	10.00	10.00
25	9.00	10.00
26	7.00	10.00
27	8.00	10.00
28	9.00	10.00
29	9.00	10.00
30	10.00	10.00
31	10.00	10.00
AVGS	8.11	10.00
MINIMUM VISIBILITY (MILES)		
<= .25	<= 3.0	>= 7.0
0	3	23

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX
OCTOBER 2014

KIAH

WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)						
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL					
SUNRISE: 0630 OCT 25 SUNSET: 1741					03	CLR	NC	9.00		58	57	57	97	0	00	30.02	30.13
06	FEW	250	10.00		57	56	56	96	0	00	30.03	30.15					
09	CLR	NC	10.00		70	57	62	64	3	01	30.08	30.19					
12	CLR	NC	10.00		79	56	65	45	0	00	30.03	30.15					
15	CLR	NC	10.00		84	56	67	38	0	00	29.98	30.09					
18	CLR	NC	10.00		71	59	64	66	5	15	29.98	30.08					
21	CLR	NC	10.00		68	58	62	70	3	18	30.00	30.11					
24	CLR	NC	10.00		59	57	58	93	0	00	29.97	30.08					
SUNRISE: 0631 OCT 26 SUNSET: 1740					03	CLR	NC	8.00		58	57	57	97	0	00	29.94	30.05
06	CLR	NC	7.00		57	56	56	96	0	00	29.95	30.06					
09	CLR	NC	10.00		71	64	67	79	3	23	29.98	30.09					
12	FEW	025	10.00		81	59	67	47	8	19	29.94	30.04					
15	FEW	035	10.00		84	58	68	41	13	16	29.86	29.97					
18	CLR	NC	10.00		77	58	65	52	7	17	29.85	29.96					
21	CLR	NC	10.00		71	63	66	76	6	17	29.87	29.97					
24	CLR	NC	10.00		64	62	63	93	5	17	29.85	29.96					
SUNRISE: 0631 OCT 27 SUNSET: 1739					03	FEW	025	10.00		62	61	61	96	3	17	29.84	29.95
06	FEW	025	10.00		65	62	63	90	7	17	29.82	29.93					
09	FEW	025	10.00		76	64	68	67	7	VR	29.86	29.96					
12	SCT	050	10.00		82	61	69	49	7	19	29.84	29.95					
15	SCT	055	10.00		84	58	68	41	9	18	29.78	29.89					
18	FEW	060	10.00		78	62	68	58	7	17	29.79	29.90					
21	SCT	120	10.00		73	63	67	71	3	17	29.84	29.94					
24	FEW	030	10.00		68	63	65	84	3	16	29.83	29.94					
SUNRISE: 0632 OCT 28 SUNSET: 1738					03	SCT	250	9.00	MIFG	63	63	63	100	0	00	29.83	29.93
06	FEW	250	10.00	MIFG	62	61	61	96	0	00	29.86	29.96					
09	BKN	250	10.00		75	67	70	76	3	36	29.93	30.03					
12	BKN	250	10.00		82	63	70	53	5	20	29.92	30.03					
15	BKN	250	10.00		85	59	69	42	3	15	29.87	29.97					
18	BKN	250	10.00		77	65	69	66	7	13	29.89	30.00					
21	SCT	250	10.00		75	65	69	71	5	19	29.94	30.04					
24	BKN	250	10.00		70	67	68	90	3	18	29.95	30.06					
SUNRISE: 0633 OCT 29 SUNSET: 1737					03	FEW	250	9.00	MIFG	66	66	66	100	0	00	29.94	30.05
06	SCT	250	10.00		66	66	66	100	0	00	29.96	30.07					
09	FEW	070	10.00		77	68	71	74	8	33	30.01	30.12					
12	BKN	065	10.00		82	68	73	63	5	VR	29.98	30.10					
15	BKN	075	10.00		77	67	70	71	17	01	29.95	30.06					
18	CLR	NC	10.00		72	65	68	79	7	05	29.96	30.07					
21	CLR	NC	10.00		65	63	64	93	7	09	30.01	30.11					
24	CLR	NC	10.00		62	61	61	96	5	10	30.00	30.11					
SUNRISE: 0634 OCT 30 SUNSET: 1736					03	FEW	250	10.00		60	57	58	90	3	03	29.98	30.09
06	FEW	250	10.00		56	52	54	87	5	05	30.00	30.11					
09	FEW	070	10.00		66	49	57	54	10	09	30.03	30.14					
12	FEW	070	10.00		74	51	61	45	3	08	30.02	30.12					
15	CLR	NC	10.00		79	52	63	39	6	VR	29.94	30.05					
18	FEW	100	10.00		67	55	60	66	3	06	29.95	30.06					
21	FEW	250	10.00		64	53	58	68	0	00	29.98	30.09					
24	BKN	110	10.00		62	56	59	80	0	00	29.98	30.10					

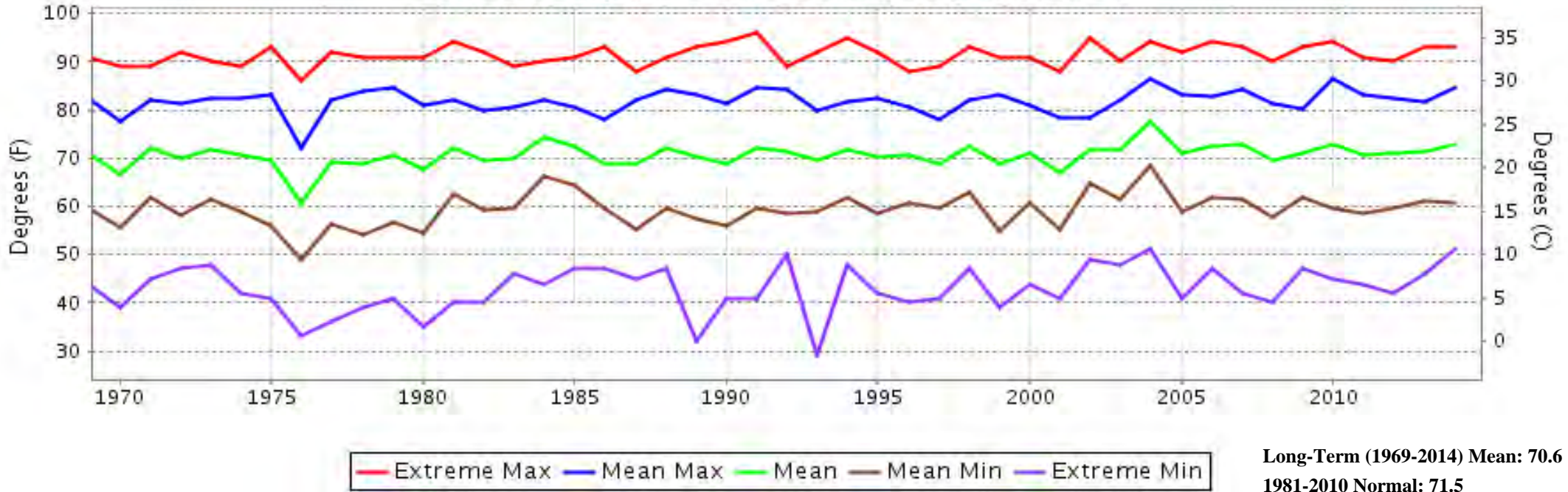
HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)						
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL					
SUNRISE: 0634 OCT 31 SUNSET: 1736					03	SCT	250	10.00		59	54	56	83	0	00	29.98	30.10
06	CLR	NC	10.00		59	55	57	87	3	30	30.02	30.13					
09	FEW	250	10.00		68	48	57	49	13	36	30.08	30.19					
12	FEW	250	10.00		77	47	60	35	16	33	30.08	30.19					
15	FEW	250	10.00		78	40	58	26	14	36	30.03	30.14					
18	FEW	250	10.00		68	43	55	40	10	35	30.08	30.19					
21	CLR	NC	10.00		59	45	52	60	8	36	30.14	30.26					
24	CLR	NC	10.00		55	45	50	69	7	35	30.18	30.29					

3-HOURLY OBSERVATION NOTES
Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, W = Vertical Visibility = 8/8
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No Ceiling detected.
& = Original observation contained additional weather elements.
See page 3 for additional notes.

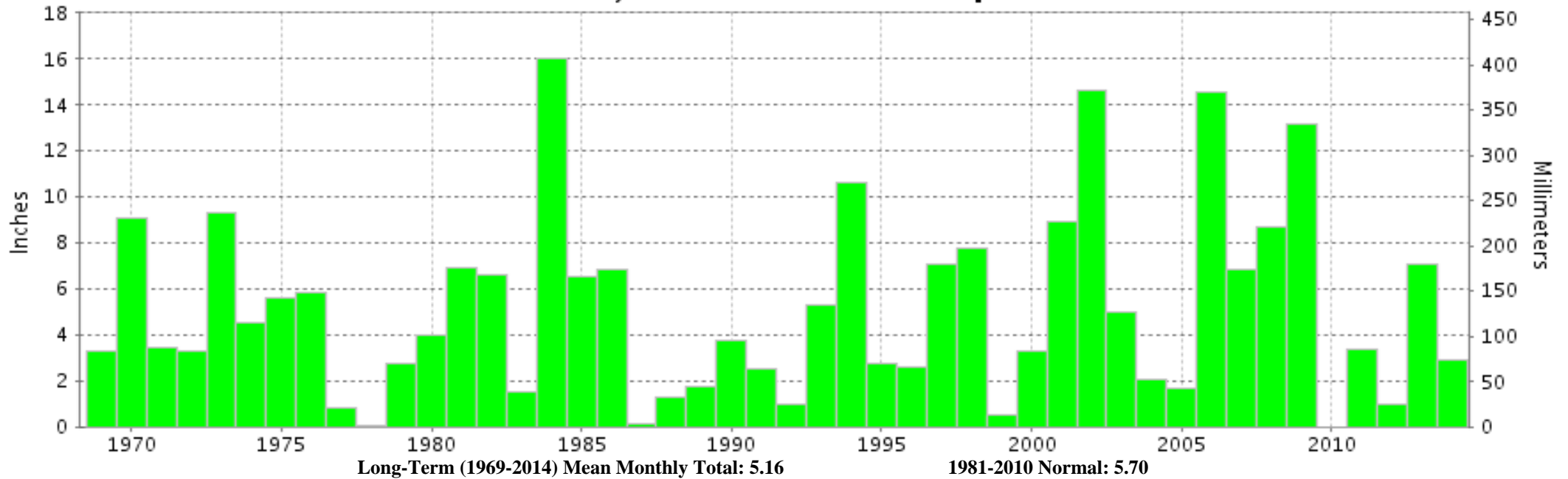
SUMMARY BY HOUR

HOUR (LST)	AVERAGES								RESULTANT WIND (MPH)	
	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
					STATION	SEA LEVEL				
01	67	63	64	88	29.88	29.99	9.87	3	2	17
02	66	63	64	90	29.88	29.99	9.77	3	2	17
03	65	62	63	91	29.88	29.98	9.71	3	2	17
04	65	62	63	91	29.88	29.98	9.68	3	2	16
05	64	62	63	91	29.89	30.00	9.65	3	2	15
06	64	61	62	91	29.89	30.00	9.52	3	2	17
07	64	61	63	91	29.91	30.02	9.02	4	2	16
08	69	63	65	81	29.92	30.03	9.48	5	3	13
09	73	63	67	70	29.94	30.05	9.94	7	2	15
10	77	62	68	62	29.94	30.05	9.90	7	2	13
11	79	61	68	56	29.94	30.05	9.61	8	2	19
12	80	61	68	53	29.92	30.03	9.81	8	2	15
13	82	60	68	50	29.89	30.00	10.00	7	2	13
14	83	60	69	48	29.87	29.98	10.00	9	3	12
15	82	60	68	48	29.86	29.97	9.90	8	2	12
16	82	60	68	49	29.85	29.96	10.00	9	2	13
17	80	61	68	54	29.86	29.96	10.00	8	2	12
18	75	61	67	63	29.86	29.97	10.00	7	2	12
19	73	62	66	70	29.88	29.99	10.00	6	2	13
20	71	62	65	73	29.89	30.00	10.00	6	2	15
21	70	62	65	78	29.91	30.01	10.00	5	2	15
22	69	62	65	81	29.91	30.02	10.00	4	2	16
23	67	62	64	84	29.91	30.01	10.00	4	2	16
24	66	62	64	86	29.90	30.01	9.74	3	2	16

HOUSTON, TX OCTOBER Temperatures



HOUSTON, TX OCTOBER Precipitation





**OCTOBER 2014
HOUSTON, TX**

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

I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites operated by NOAA-National Weather Service / Department Of Transportation-Federal Aviation Administration and received at the National Climatic Data Center (NCDC), Asheville, North Carolina 28801.

A handwritten signature in black ink, appearing to read "Thomas R. Karl".

DIRECTOR

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