



# NOVEMBER 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



**NOVEMBER 2013  
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										
20	21	22	23	24																											
01	80	52	66	1	56	60	0	1	TSRA RA BR	0		0.0	0.15	29.79	29.90	2.7	19	5.2	38*	30	28*	31	01								
02	73	51	62	-3	44	53	3	0		0		0.0	0.00	30.06	30.15	10.8	35	10.9	28	35	23	34	02								
03	69	45	57	-8	47	52	8	0		0		0.0	0.00	30.03	30.15	6.7	12	7.3	23	15	17	12	03								
04	73	52	63	-1	60	62	2	0	RA	0		0.0	T	29.93	30.06	9.4	11	9.9	25	13	21	13	04								
05	80	67	74	10	68	69	0	9	RA	0		0.0	T	29.90	30.02	11.0	12	11.4	26	14	22	13	05								
06	79	53	66	2	63	65	0	1	RA	0		0.0	0.03	30.01	30.10	5.5	35	9.1	28	35	22	35	06								
07	69	46	58	-5	41	49	7	0		0		0.0	0.00	30.24	30.33	11.6	01	12.1	28	36	22	01	07								
08	67	48	58	-5	43	50	7	0		0		0.0	0.00	30.14	30.29	3.0	07	4.3	22	11	17	11	08								
09	70	53	62	-1	52	55	3	0		0		0.0	0.00	30.06	30.19	4.4	08	4.7	13	11	10	08	09								
10	75	53	64	1	50	56	1	0		0		0.0	0.00	30.12	30.24	4.3	03	5.1	16	05	13	02	10								
11	75	52	64	2	53	57	1	0		0		0.0	0.00	30.09	30.21	1.3	01	1.8	13	03	9	03	11								
12	72	47	60	-2	51	54	5	0		0		0.0	0.00	30.30	30.39	10.8	36	11.1	31	02	25	01	12								
13	56	36	46	-15	30	39	19	0		0		0.0	0.00	30.39	30.52	9.1	02	9.4	26	02	21	03	13								
14	64	35	50	-11	40	45	15	0		0		0.0	0.00	30.09	30.25	4.5	10	5.6	16	14	14	14	14								
15	78	51	65	4	58	60	0	0		0		0.0	0.00	29.85	30.00	6.2	13	7.1	18	14	16	14	15								
16	81	57	69	8	68	69	0	4	RA FG+ MIFG BR	0		0.0	0.03	29.75	29.88	7.9	16	8.1	25	16	22	16	16								
17	85*	69	77*	17	71	73	0	12	BR	0		0.0	0.00	29.76	29.87	5.9	21	6.2	29	23	17	21	17								
18	79	62	71	11	59	64	0	6	FG+ BCFG BR	0		0.0	0.00	29.93	30.03	7.4	05	8.2	22	07	18	07	18								
19	70	50	60	0	43	52	5	0		0		0.0	0.00	29.96	30.08	9.4	08	10.0	22	06	16	10	19								
20	73	48	61	1	54	58	4	0		0		0.0	0.00	29.88	30.01	8.6	12	9.4	24	14	21	14	20								
21	80	67	74	15	69	70	0	9	RA	0		0.0	0.06	29.92	30.03	10.1	13	10.2	22	13	18	16	21								
22	73	43	58	-1	54	54	7	0	TS TSRA RA BR	0		0.0	1.40	30.09	30.19	8.8	34	12.1	28	33	23	34	22								
23	50	43	47	-12	45	47	18	0	RA BR	0		0.0	0.41	30.22	30.32	14.0	36	14.7	33	04	22	02	23								
24	50	42	46	-13	32	40	19	0	RA	0		0.0	T	30.24	30.37	13.1	03	13.6	26	02	21	04	24								
25	44	39	42	-16	39	41	23	0	RA BR	0		0.0	1.26	29.99	30.14	10.7	01	11.6	28	01	22	01	25								
26	44	39	42	-16	38	40	23	0	RA	0		0.0	0.47	30.04	30.15	11.8	32	12.2	33	34	24	33	26								
27	50	34	42*	-16	29	36	23	0		0		0.0	0.00	30.27	30.37	7.3	35	7.7	21	36	16	35	27								
28	55	31*	43	-14	35	39	22	0		0		0.0	0.00	30.32	30.43	3.2	09	4.1	13	07	9	10	28								
29	63	34	49	-8	36	41	16	0		0		0.0	0.00	30.32	30.45	1.9	10	3.5	13	04	10	09	29								
30	70	39	55	-2	46	50	10	0		0		0.0	0.00	30.19	30.32	2.8	14	4.1	15	15	14	15	30								
										68.2		47.9		58.1		☼	49.1		53.3		8.0		1.4		< MONTHLY AVERAGES   TOTALS >						
										-4.3		-4.2		-4.2			<-----DEPARTURE FROM NORMAL----->										-0.53		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3		
<b>DEGREE DAYS</b>										GREATEST 24-HR PRECIPITATION : 1.48 DATE : 25-26				SEA LEVEL PRESSURE				DATE TIME													
MONTHLY										GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.63				13 0944													
SEASON TO DATE										GREATEST SNOW DEPTH : 0 DATE :				MINIMUM : 29.81				17 1456													
TOTAL DEPARTURE										NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 0				MINIMUM TEMP <= 32 : 1				PRECIPITATION >= 0.01 INCH: 8									
HEATING : 241 86 249 64										THUNDERSTORMS : 2				MAXIMUM TEMP <= 32 : 0				MINIMUM TEMP <= 0 : 0				PRECIPITATION >= 0.10 INCH: 5									
COOLING : 42 -32 3175 47																						SNOWFALL >= 1.0 INCH : 0									

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX (KIAH)  
NOVEMBER 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								0.15	T			01	0.15	0.15	
02													02												02	0.00	0.00	
03													03												03	0.00	0.00	
04													04									T	T		04	T	T	
05		T											05												05	T	T	
06													06												06	0.03	0.03	
07													07												07	0.00	0.00	
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	0.00	0.00	
14													14												14	0.00	0.00	
15													15												15	0.00	0.00	
16													16												16	0.03	0.03	
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	0.05												21	T	T	T	0.01	T							21	0.06	0.06	
22					T								22					T		T					22	1.40	1.40	
23													23	0.19	T	T									23	0.41	0.41	
24													24					T							24	T	T	
25				T	0.06	0.21	0.13	0.03	0.01	0.04	0.04	0.06	25	0.03	0.01	T	0.03	0.29	0.23	0.09	T	T		T	25	1.26	1.26	
26	T	0.02	0.09	0.11	0.03	0.01	0.01	0.07	0.02	T	0.02	0.01	26	0.01	0.05	0.02									26	0.47	0.47	
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	

\* 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)	0.28	0.52	0.71	0.84	1.01	1.15	1.24	1.30	1.35	1.38	1.40	1.40
Ending Date	22	22	22	22	22	22	22	22	22	22	22	22
Ending Time (Hr/Min)	0859	0901	0902	0903	0912	0917	0935	0946	0946	1004	1012	1012

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	
VC In the Vicinity	UP Unkown Precipitation		GL Glaze

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

# HOUSTON, TX NOVEMBER 2013

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:

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	VISIBILITY (MILES)	
	MINIMUM	MAXIMUM
01	4.00	10.00
02	10.00	10.00
03	10.00	10.00
04	7.00	10.00
05	10.00	10.00
06	10.00	10.00
07	10.00	10.00
08	10.00	10.00
09	10.00	10.00
10	10.00	10.00
11	10.00	10.00
12	10.00	10.00
13	10.00	10.00
14	10.00	10.00
15	10.00	10.00
16	0.25	10.00
17	6.00	10.00
18	0.00	10.00
19	4.00	10.00
20	10.00	10.00
21	7.00	10.00
22	0.25	10.00
23	2.00	10.00
24	10.00	10.00
25	1.75	10.00
26	8.00	10.00
27	10.00	10.00
28	10.00	10.00
29	10.00	10.00
30	10.00	10.00
<b>AVGS</b>	7.68	10.00
<b>MINIMUM VISIBILITY (MILES)</b>		
<= .25	<= 3.0	>= 7.0
3	5	22

# OBSERVATIONS AT 3-HOURLY INTERVALS

# HOUSTON, TX

## NOVEMBER 2013

## KIAH

## WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		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						DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL				
<b>SUNRISE: 0635</b>					<b>NOV 01</b>					<b>SUNSET: 1735</b>					<b>SUNRISE: 0640</b>					<b>NOV 07</b>					<b>SUNSET: 1730</b>				
03	CLR	NC	10.00		53	52	52	96	0	00	29.76	29.87	03	FEW	250	10.00		50	41	46	71	11	35	30.16	30.27				
06	CLR	NC	10.00		53	52	52	96	0	00	29.78	29.89	06	FEW	250	10.00		47	40	44	77	17	36	30.21	30.32				
09	CLR	NC	10.00		65	58	61	78	7	12	29.83	29.94	09	BKN	250	10.00		50	41	46	71	16	36	30.27	30.39				
12	CLR	NC	10.00		75	57	64	54	9	15	29.80	29.91	12	SCT	250	10.00		62	38	50	41	16	03	30.27	30.38				
15	CLR	NC	10.00		79	51	63	38	9	17	29.73	29.84	15	SCT	250	10.00		66	37	52	34	16	02	30.19	30.31				
18	FEW	050	10.00		70	60	64	71	5	19	29.74	29.85	18	BKN	250	10.00		60	41	51	50	11	01	30.24	30.35				
21	BKN	065	4.00	+RA BR	67	63	65	87	13	30	29.84	29.95	21	BKN	250	10.00		56	42	49	60	3	36	30.27	30.38				
24	CLR	NC	10.00		62	53	57	73	10	29	29.86	29.97	24	BKN	250	10.00		53	43	48	69	5	02	30.26	30.37				
<b>SUNRISE: 0636</b>					<b>NOV 02</b>					<b>SUNSET: 1734</b>					<b>SUNRISE: 0641</b>					<b>NOV 08</b>					<b>SUNSET: 1730</b>				
03	CLR	NC	10.00		60	56	58	86	7	34	29.94	30.05	03	BKN	250	10.00		51	43	47	74	0	00	30.24	30.35				
06	CLR	NC	10.00		58	49	53	72	9	34	30.03	30.13	06	SCT	250	10.00		48	44	46	86	3	02	30.22	30.34				
09	CLR	NC	10.00		64	47	55	54	14	35	30.10	30.21	09	BKN	250	10.00		57	43	50	60	7	06	30.27	30.38				
12	CLR	NC	10.00		71	40	55	32	20	36	30.10	30.21	12	BKN	250	10.00		64	36	50	35	10	10	30.21	30.32				
15	CLR	NC	10.00		72	37	54	28	17	36	30.03	30.13	15	BKN	250	10.00		66	38	52	36	0	00	30.13	30.24				
18	CLR	NC	10.00		64	39	52	40	8	33	30.06	30.16	18	BKN	250	10.00		56	47	51	72	6	13	30.11	30.22				
21	CLR	NC	10.00		57	41	49	55	7	34	30.11	30.22	21	BKN	250	10.00		53	47	50	80	0	00	30.11	30.24				
24	CLR	NC	10.00		51	42	47	71	0	00	30.10	30.21	24	BKN	250	10.00		55	47	51	74	0	00	30.08	30.19				
<b>SUNRISE: 0637</b>					<b>NOV 03</b>					<b>SUNSET: 1733</b>					<b>SUNRISE: 0641</b>					<b>NOV 09</b>					<b>SUNSET: 1729</b>				
03	CLR	NC	10.00		50	41	46	71	0	00	30.10	30.20	03	BKN	250	10.00		53	50	51	89	0	00	30.05	30.16				
06	CLR	NC	10.00		46	42	44	86	3	05	30.09	30.20	06	BKN	250	10.00		53	49	51	86	3	04	30.06	30.18				
09	CLR	NC	10.00		58	47	52	67	13	10	30.11	30.22	09	OVC	140	10.00		60	48	54	65	6	09	30.11	30.22				
12	FEW	045	10.00		67	48	57	51	14	15	30.06	30.16	12	OVC	250	10.00		65	52	58	63	6	08	30.08	30.19				
15	SCT	046	10.00		68	47	57	47	5	12	30.01	30.11	15	OVC	140	10.00		69	54	60	59	5	06	30.03	30.15				
18	SCT	250	10.00		60	49	54	67	10	12	30.00	30.11	18	BKN	250	10.00		62	56	59	80	7	06	30.05	30.16				
21	FEW	250	10.00		57	48	52	72	10	12	30.03	30.14	21	SCT	250	10.00		59	56	57	90	6	07	30.09	30.20				
24	FEW	250	10.00		54	48	51	80	5	12	29.98	30.10	24	FEW	250	10.00		56	53	54	90	5	05	30.10	30.21				
<b>SUNRISE: 0638</b>					<b>NOV 04</b>					<b>SUNSET: 1732</b>					<b>SUNRISE: 0642</b>					<b>NOV 10</b>					<b>SUNSET: 1728</b>				
03	SCT	250	10.00		54	51	52	90	0	00	29.95	30.05	03	SCT	250	10.00		55	51	53	87	5	03	30.10	30.21				
06	BKN	045	10.00		57	53	55	87	6	09	29.94	30.05	06	BKN	250	10.00		56	51	53	84	6	04	30.14	30.24				
09	OVC	070	10.00	-RA	62	59	60	90	9	10	30.00	30.10	09	BKN	250	10.00		58	50	54	75	7	03	30.19	30.30				
12	OVC	065	10.00		72	64	67	76	13	11	29.96	30.07	12	BKN	250	10.00		68	52	59	57	5	VR	30.16	30.27				
15	OVC	060	10.00		72	64	67	76	13	13	29.91	30.01	15	SCT	250	10.00		74	44	58	34	9	04	30.09	30.20				
18	OVC	045	10.00		69	65	66	87	20	13	29.92	30.03	18	SCT	250	10.00		67	49	57	53	3	35	30.11	30.22				
21	OVC	040	7.00	-RA	69	66	67	90	9	13	29.95	30.05	21	FEW	250	10.00		61	53	57	75	5	02	30.14	30.25				
24	BKN	100	10.00		68	65	66	90	9	10	29.94	30.05	24	FEW	250	10.00		57	53	55	87	3	35	30.14	30.24				
<b>SUNRISE: 0638</b>					<b>NOV 05</b>					<b>SUNSET: 1732</b>					<b>SUNRISE: 0643</b>					<b>NOV 11</b>					<b>SUNSET: 1728</b>				
03	OVC	070	10.00		69	67	68	93	9	10	29.91	30.01	03	FEW	250	10.00		54	52	53	93	3	34	30.11	30.22				
06	OVC	065	10.00		68	67	67	96	9	11	29.91	30.01	06	FEW	250	10.00		52	50	51	93	3	35	30.11	30.22				
09	OVC	060	10.00		71	68	69	90	10	12	29.95	30.05	09	FEW	250	10.00		61	53	57	75	0	00	30.16	30.27				
12	OVC	050	10.00		78	69	72	74	14	14	29.92	30.03	12	SCT	250	10.00		73	54	62	51	5	01	30.11	30.23				
15	OVC	080	10.00		79	69	72	72	18	14	29.86	29.97	15	BKN	250	10.00		74	51	61	45	3	VR	30.05	30.16				
18	BKN	095	10.00		75	70	72	84	10	13	29.87	29.98	18	BKN	250	10.00		64	54	58	70	3	36	30.06	30.16				
21	OVC	090	10.00		73	71	72	94	9	12	29.91	30.02	21	SCT	250	10.00		60	55	57	84	3	35	30.10	30.21				
24	OVC	021	10.00		71	70	70	96	9	11	29.92	30.02	24	FEW	250	10.00		57	54	55	90	0	00	30.11	30.23				
<b>SUNRISE: 0639</b>					<b>NOV 06</b>					<b>SUNSET: 1731</b>					<b>SUNRISE: 0644</b>					<b>NOV 12</b>					<b>SUNSET: 1727</b>				
03	OVC	004	10.00		71	71	71	100	6	15	29.89	30.00	03	FEW	250	10.00		55	52	53	90	3	35	30.13	30.24				
06	BKN	085	10.00		69	68	68	96	3	15	29.90	30.01	06	FEW	250	10.00		54	51	52	90	0	00	30.18	30.29				
09	OVC	034	10.00		75	72	73	90	0	00	29.96	30.07	09	FEW	250	10.00		63	54	58	73	9	01	30.24	30.36				
12	BKN	060	10.00		73	69	70	87	8	34	29.97	30.08	12	SCT	250	10.00		70	55	61	59	21	35	30.26	30.37				
15	BKN	060	10.00		74	65	68	74	14	33	29.97	30.08	15	OVC	016	10.00		60	53	56	78	15	35	30.29	30.40				
18	BKN	180	10.00		63	57	60	81	17	36	30.05	30.15	18	OVC	026	10.00		56	50	53	81	20	35	30.35	30.47				
21	SCT	200	10.00		57	49	53	74	13	35	30.13	30.24	21	BKN	250	10.00		52	44	48	75	13	01	30.42	30.54				
24	SCT	250	10.00		53	46	49	77	11	36	30.16	30.27	24	FEW	250	10.00		47	38	43	71	14	04	30.45	30.57				

# OBSERVATIONS AT 3-HOURLY INTERVALS

**HOUSTON, TX**  
**NOVEMBER 2013**

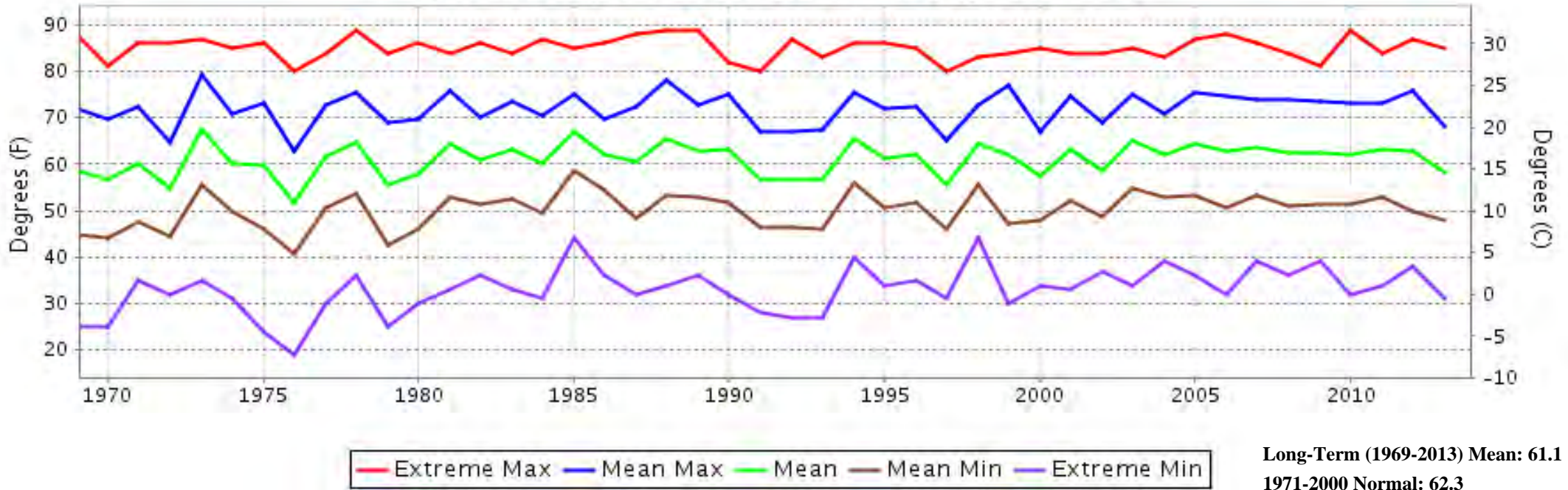
**KIAH**

**WBAN # 12960**

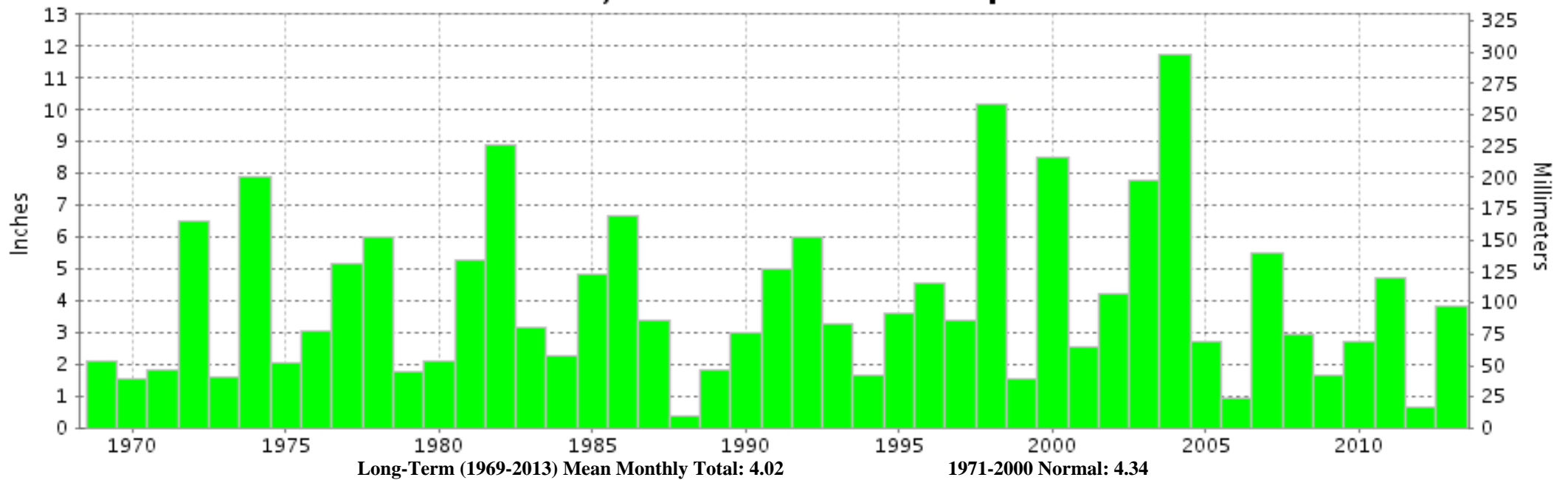
HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)					
					DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL						DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL				
<b>SUNRISE: 0645</b>					<b>NOV 13</b>					<b>SUNSET: 1727</b>					<b>SUNRISE: 0650</b>					<b>NOV 19</b>					<b>SUNSET: 1724</b>				
03	FEW	250	10.00		41	29	36	62	15	02	30.47	30.59	03	BKN	180	10.00		59	41	50	51	11	07	29.96	30.07				
06	FEW	250	10.00		37	27	33	67	13	02	30.48	30.60	06	BKN	250	10.00		57	42	50	58	10	06	30.00	30.11				
09	FEW	250	10.00		42	27	36	55	11	05	30.51	30.63	09	FEW	250	10.00		58	42	50	56	14	08	30.03	30.14				
12	FEW	250	10.00		50	25	40	38	8	36	30.45	30.57	12	CLR	NC	10.00		66	41	53	40	10	08	30.01	30.12				
15	SCT	250	10.00		56	27	44	33	9	02	30.35	30.46	15	CLR	NC	10.00		70	42	55	37	10	12	29.94	30.05				
18	BKN	250	10.00		49	32	42	52	7	35	30.34	30.45	18	FEW	100	10.00		62	41	51	46	8	11	29.94	30.04				
21	BKN	250	10.00		44	34	40	68	6	02	30.35	30.46	21	CLR	NC	10.00		54	45	49	72	7	10	29.96	30.07				
24	SCT	250	10.00		38	35	37	89	0	00	30.30	30.42	24	CLR	NC	10.00		51	44	48	77	6	08	29.95	30.05				
<b>SUNRISE: 0646</b>					<b>NOV 14</b>					<b>SUNSET: 1726</b>					<b>SUNRISE: 0651</b>					<b>NOV 20</b>					<b>SUNSET: 1724</b>				
03	FEW	250	10.00		37	33	35	86	3	05	30.27	30.38	03	FEW	100	10.00		50	40	45	68	6	05	29.93	30.04				
06	FEW	250	10.00		37	33	35	86	3	01	30.22	30.34	06	BKN	037	10.00		51	41	46	69	7	11	29.92	30.03				
09	BKN	250	10.00		44	36	41	73	5	08	30.22	30.34	09	OVC	039	10.00		60	49	54	67	9	09	29.94	30.05				
12	BKN	250	10.00		57	42	50	58	5	VR	30.16	30.29	12	OVC	042	10.00		70	57	62	64	16	15	29.91	30.01				
15	OVC	250	10.00		61	47	54	60	8	13	30.05	30.16	15	BKN	048	10.00		71	61	65	71	17	13	29.84	29.95				
18	OVC	250	10.00		57	48	52	72	7	12	30.02	30.13	18	OVC	050	10.00		69	62	65	78	10	12	29.86	29.97				
21	BKN	250	10.00		51	44	48	77	5	12	30.01	30.12	21	OVC	032	10.00		67	63	65	87	9	12	29.89	29.99				
24	BKN	250	10.00		53	45	49	74	6	12	29.96	30.07	24	OVC	008	10.00		67	65	66	93	8	11	29.88	29.99				
<b>SUNRISE: 0646</b>					<b>NOV 15</b>					<b>SUNSET: 1726</b>					<b>SUNRISE: 0651</b>					<b>NOV 21</b>					<b>SUNSET: 1723</b>				
03	BKN	250	10.00		52	47	49	83	6	10	29.92	30.03	03	OVC	019	10.00		70	68	69	93	11	14	29.88	29.98				
06	SCT	110	10.00		54	50	52	87	6	12	29.91	30.02	06	OVC	012	10.00		70	68	69	93	9	13	29.89	30.00				
09	BKN	250	10.00		62	56	59	80	7	11	29.95	30.06	09	BKN	080	10.00		74	70	71	88	11	15	29.93	30.04				
12	FEW	025	10.00		74	62	67	67	5	19	29.89	30.00	12	OVC	034	10.00		76	71	73	85	14	14	29.93	30.03				
15	SCT	045	10.00		78	62	68	58	6	15	29.81	29.92	15	OVC	085	10.00	-RA	76	73	74	91	7	13	29.89	30.00				
18	FEW	040	10.00		69	65	66	87	11	14	29.81	29.92	18	OVC	050	10.00		73	72	72	96	8	12	29.93	30.04				
21	BKN	035	10.00		66	65	65	96	8	14	29.85	29.96	21	OVC	007	7.00		73	72	72	96	8	12	29.96	30.06				
24	SCT	250	10.00		66	65	65	96	7	15	29.85	29.95	24	OVC	006	10.00		73	72	72	96	7	14	29.96	30.07				
<b>SUNRISE: 0647</b>					<b>NOV 16</b>					<b>SUNSET: 1725</b>					<b>SUNRISE: 0652</b>					<b>NOV 22</b>					<b>SUNSET: 1723</b>				
03	SCT	250	1.50	BR	59	59	59	100	3	15	29.81	29.92	03	OVC	006	10.00		73	72	72	96	7	17	29.96	30.07				
06	SCT	250	5.00	BR	63	63	63	100	0	00	29.80	29.91	06	OVC	004	0.25		72	71	71	97	8	11	29.98	30.09				
09	OVC	002	0.25	BR	69	69	69	100	7	15	29.83	29.93	09	OVC	016	3.00	+RA BR	53	52	52	96	20	35	30.10	30.21				
12	BKN	060	3.00		79	72	74	79	11	15	29.79	29.90	12	OVC	008	10.00		50	48	49	93	15	35	30.11	30.23				
15	OVC	055	3.00		79	71	74	77	16	16	29.71	29.81	15	OVC	006	10.00		50	48	49	93	15	33	30.10	30.21				
18	OVC	040	10.00		76	72	73	88	9	16	29.71	29.82	18	OVC	008	6.00	-RA BR	46	45	46	96	14	34	30.14	30.25				
21	OVC	013	10.00	-RA	75	74	74	96	8	17	29.74	29.85	21	OVC	006	10.00		44	43	44	96	17	34	30.18	30.29				
24	OVC	020	10.00		76	74	75	94	8	18	29.73	29.84	24	OVC	006	10.00		43	41	42	93	14	34	30.16	30.29				
<b>SUNRISE: 0648</b>					<b>NOV 17</b>					<b>SUNSET: 1725</b>					<b>SUNRISE: 0653</b>					<b>NOV 23</b>					<b>SUNSET: 1723</b>				
03	BKN	045	10.00		76	73	74	91	7	18	29.71	29.82	03	OVC	007	10.00		44	42	43	93	13	34	30.16	30.28				
06	BKN	038	10.00		75	74	74	96	7	18	29.72	29.83	06	OVC	007	10.00		44	42	43	93	14	35	30.18	30.29				
09	BKN	030	10.00		77	73	74	88	8	21	29.78	29.89	09	OVC	006	2.00	+RA BR	46	45	46	96	14	35	30.22	30.34				
12	BKN	034	10.00		82	71	74	69	10	23	29.76	29.87	12	OVC	014	4.00	+RA BR	48	46	47	93	15	35	30.24	30.35				
15	FEW	045	10.00		85	70	75	61	10	21	29.71	29.81	15	OVC	014	10.00		49	47	48	93	18	02	30.19	30.31				
18	SCT	250	10.00		80	70	73	71	5	20	29.76	29.86	18	OVC	012	10.00		48	44	46	86	20	03	30.22	30.34				
21	FEW	250	10.00		76	71	73	85	5	19	29.81	29.92	21	OVC	017	10.00		47	43	45	86	15	02	30.27	30.39				
24	SCT	110	6.00	BR	70	69	69	97	0	00	29.84	29.94	24	OVC	100	10.00		46	39	43	77	14	03	30.27	30.38				
<b>SUNRISE: 0649</b>					<b>NOV 18</b>					<b>SUNSET: 1724</b>					<b>SUNRISE: 0654</b>					<b>NOV 24</b>					<b>SUNSET: 1722</b>				
03	OVC	002	0.25	BR	70	70	70	100	0	00	29.85	29.96	03	BKN	060	10.00		45	32	40	61	16	03	30.27	30.38				
06	VV	002	0.00	BR	72	72	72	100	5	35	29.88	29.99	06	BKN	065	10.00		44	31	39	60	16	04	30.27	30.40				
09	OVC	004	0.75	BR	72	71	71	97	8	03	29.94	30.04	09	OVC	065	10.00		43	31	38	63	17	04	30.32	30.43				
12	FEW	250	10.00		77	59	66	54	15	09	29.93	30.04	12	OVC	065	10.00		47	30	40	52	14	02	30.27	30.39				
15	BKN	100	10.00		77	48	61	36	13	07	29.92	30.02	15	OVC	060	10.00		47	31	40	54	13	01	30.24	30.35				
18	BKN	055	10.00		71	43	56	36	10	09	29.95	30.06	18	OVC	050	10.00		45	33	40	63	10	01	30.24	30.35				
21	SCT	100	10.00		64	50	56	60	7	04	30.00	30.10	21	OVC	044	10.00		43	36	40	76	14	03	30.22	30.34				
24	SCT	100	10.00		62	42	52	48	11	06	30.01	30.11	24	OVC	034	10.00		43	35	40	74	9	05	30.19	30.31				



## HOUSTON, TX NOVEMBER Temperatures



## HOUSTON, TX NOVEMBER Precipitation





**NOVEMBER 2013  
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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