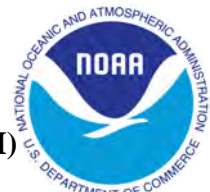




# DECEMBER 2014 LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

**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**



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	1200 LST	2400 LST	2400 LST	AVERAGE STATION 15	AVERAGE SEA LEVEL 16	RESULTANT SPEED 17	RES DIR 18	AVERAGE SPEED 19	MAXIMUM						
																			3-SEC		2-MIN				
																		SPEED	DIR	SPEED	DIR				
01	69	45	57	0	53	55	8	0	RA MIFG BR	0		0.0	0.03	30.17	30.28	4.8	34	6.9	25	34	21	34	01		
02	56	44	50	-6	43	47	15	0	BR	0		0.0	0.00	30.16	30.28	6.1	01	7.7	20	04	16	01	02		
03	66	52	59	3	54	55	6	0	DZ FG+ FG BCFG BR	0		0.0	T	30.09	30.20	3.0	06	3.7	14	08	12	08	03		
04	72	53	63	7	60	60	2	0	RA BR	0		0.0	T	30.01	30.14	6.6	11	7.4	16	13	13	14	04		
05	79	65	72*	16	67	68	0	7	RA FG+ BR	0		0.0	0.07	29.99	30.11	4.7	18	5.6	21	19	14	20	05		
06	71	58	65	10	61	62	0	0	RA BR	0		0.0	T	30.16	30.25	6.6	36	7.8	20	01	16	35	06		
07	59	54	57	2	52	54	8	0	BR	0		0.0	0.00	30.16	30.28	5.1	03	6.4	17	06	14	05	07		
08	67	46	57	2	46	50	8	0		0		0.0	0.00	30.17	30.29	4.4	02	5.4	16	33	13	35	08		
09	70	43	57	2	46	50	8	0	BCFG	0		0.0	0.00	30.16	30.29	1.2	03	1.8	10	06	8	06	09		
10	69	42	56	1	48	52	9	0	MIFG BR	0		0.0	0.00	30.09	30.23	3.3	14	4.4	15	13	12	13	10		
11	72	56	64	10	54	58	1	0	RA	0		0.0	0.02	30.09	30.21	4.0	15	5.0	16	19	12	23	11		
12	75	57	66	12	56	60	0	1	RA	0		0.0	T	30.14	30.25	7.3	15	7.5	20	14	15	16	12		
13	74	54	64	10	59	61	1	0	BR	0		0.0	0.00	30.05	30.18	9.1	13	9.2	24	14	20	13	13		
14	76	58	67	13	63	64	0	2	RA FG+ BR	0		0.0	T	29.86	30.00	11.2	14	11.8	29	14	24	15	14		
15	80*	59	70	16	58	63	0	5	RA	0		0.0	T	29.89	29.99	4.9	26	8.2	22	27	15	27	15		
16	66	48	57	4	37	47	8	0		0		0.0	0.00	30.14	30.24	6.9	35	7.2	23	02	17	36	16		
17	64	44	54	1	46	50	11	0	RA	0		0.0	T	30.05	30.17	8.0	10	8.7	22	12	17	11	17		
18	70	57	64	11	58	59	1	0	RA BR	0		0.0	0.80	29.95	30.07	5.9	06	6.9	20	05	16	05	18		
19	59	52	56	3	54	54	9	0	TS TSRA RA BR	0		0.0	3.06	29.96	30.06	8.8	02	10.4	26	36	22	02	19		
20	54	50	52	-1	49	50	13	0		0		0.0	0.00	30.06	30.17	7.2	01	7.7	18	02	14	36	20		
21	61	48	55	2	48	51	10	0		0		0.0	0.00	29.88	30.04	4.0	10	6.2	18	21	12	14	21		
22	72	55	64	11	58	60	1	0	RA BR	0		0.0	T	29.57	29.72	4.8	21	6.2	30	22	20	23	22		
23	60	48	54	1	49	52	11	0	TS TSRA RA FG+ FG BR	0		0.0	0.69	29.62	29.72	10.1	35	11.3	33*	01	24*	35	23		
24	55	37	46	-6	36	42	19	0		0		0.0	0.00	29.95	30.04	6.4	29	7.0	24	28	17	33	24		
25	66	34*	50	-2	41	46	15	0	BCFG	0		0.0	0.00	29.98	30.10	7.1	17	7.4	26	16	22	15	25		
26	71	51	61	9	59	62	4	0	RA	0		0.0	0.04	29.87	30.00	8.0	15	8.3	28	15	21	16	26		
27	74	46	60	8	57	58	5	0	RA BR	0		0.0	0.22	29.95	30.05	3.7	34	10.3	30	36	22	33	27		
28	46	41	44	-8	41	42	21	0	RA BR	0		0.0	0.67	30.05	30.17	8.2	34	8.5	21	35	17	34	28		
29	48	39	44	-8	43	44	21	0	FG+ BR	0		0.0	0.00	30.04	30.16	2.0	05	4.1	26	09	12	12	29		
30	53	38	46	-6	42	45	19	0		0		0.0	0.00	30.26	30.35	10.3	03	10.5	22	03	18	03	30		
31	46	37	42*	-10	34	39	23	0		0		0.0	0.00	30.29	30.41	10.6	03	10.8	22	01	18	01	31		
										<b>&lt; MONTHLY AVERAGES   TOTALS &gt;</b>				0.0	5.60	30.03	30.14	2.2	05	7.4	<b>&lt; MONTHLY AVERAGES</b>				
										<b>&lt;-----DEPARTURE FROM NORMAL -----&gt;</b>				1.86	<b>SUNSHINE, CLOUD, &amp; VISIBILITY TABLES ON PAGE 3</b>										
<b>DEGREE DAYS</b>										<b>GREATEST 24-HR PRECIPITATION :</b> 3.18 <b>DATE :</b> 18-19				<b>SEA LEVEL PRESSURE</b>				<b>DATE TIME</b>							
<b>MONTHLY</b>										<b>GREATEST 24-HR SNOWFALL :</b> 0.0 <b>DATE :</b>				<b>MAXIMUM :</b> 30.50				<b>31 0953</b>							
<b>SEASON TO DATE</b>										<b>GREATEST SNOW DEPTH :</b> 0 <b>DATE :</b>				<b>MINIMUM :</b> 29.58				<b>23 0554</b>							
<b>TOTAL DEPARTURE</b>										<b>NUMBER OF -&gt; DAYS WITH</b>				<b>MAXIMUM TEMP &gt;= 90 :</b> 0				<b>MINIMUM TEMP &lt;= 32 :</b> 0				<b>PRECIPITATION &gt;= 0.01 INCH:</b> 9			
<b>HEATING :</b> 257 -97 505 -34														<b>MAXIMUM TEMP &lt;= 32 :</b> 0				<b>MINIMUM TEMP &lt;= 0 :</b> 0				<b>PRECIPITATION &gt;= 0.10 INCH:</b> 5			
<b>COOLING :</b> 15 -12 3043 -112														<b>THUNDERSTORMS :</b> 2				<b>HEAVY FOG :</b> 5				<b>SNOWFALL &gt;= 1.0 INCH :</b> 0			

**DECEMBER 2014  
HOUSTON, TX**

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX (KIAH)  
DECEMBER 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												T	0.01	0.01	01	T	T	T	T	T						01	0.03	0.03
02															02											02	0.00	0.00
03													T	T	03										03	T	T	
04															04										04	T	T	
05				0.06	0.01	T	T	T							05	T		T							05	0.07	0.07	
06					T										06										06	T	T	
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	0.02	0.02	
12	T	T			T	0.02	T								12										12	T	T	
13															13										13	0.00	0.00	
14															14	T	T	T	T	T					14	T	T	
15	T	T													15										15	T	T	
16															16										16	0.00	0.00	
17															17										17	T	T	
18				0.07	0.03	0.58	T								18										18	0.80	0.80	
19	0.33	1.10	0.22	0.15	0.12	0.06	0.04	0.24	0.05	0.12	0.23	0.23			19	0.16	0.01	T	T					19	3.06	3.06		
20															20										20	0.00	0.00	
21															21										21	0.00	0.00	
22															22										22	T	T	
23															23										23	0.69	0.69	
24															24										24	0.00	0.00	
25															25										25	0.00	0.00	
26															26										26	0.04	0.04	
27															27	0.13	0.04	0.01	T	T					27	0.22	0.22	
28	0.01	0.01	0.02	T	0.03	0.04	0.08	0.05	0.05	0.04	0.05	0.04			28	0.05	0.03	0.13	0.04	T				28	0.67	0.67		
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)												
Ending Date												
Ending Time (Hr/Min)												

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 DECEMBER 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	0.50	10.00
02	2.00	10.00
03	0.25	10.00
04	0.25	10.00
05	0.12	10.00
06	0.25	10.00
07	5.00	10.00
08	7.00	10.00
09	7.00	10.00
10	6.00	10.00
11	8.00	10.00
12	8.00	10.00
13	5.00	10.00
14	0.25	10.00
15	6.00	10.00
16	10.00	10.00
17	9.00	10.00
18	0.50	10.00
19	2.00	10.00
20	3.00	10.00
21	7.00	10.00
22	0.50	10.00
23	0.00	10.00
24	0.00	10.00
25	10.00	10.00
26	8.00	10.00
27	6.00	10.00
28	2.00	10.00
29	0.25	9.00
30	3.00	10.00
31	3.00	10.00
<b>AVGS</b>	3.87	9.97
<b>MINIMUM VISIBILITY (MILES)</b>		
<= .25	<= 3.0	>= 7.0
8	17	9

# OBSERVATIONS AT 3-HOURLY INTERVALS

# HOUSTON, TX

## DECEMBER 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)		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: 0660</b>					<b>DEC 01</b>					<b>SUNSET: 1721</b>					<b>SUNRISE: 0704</b>					<b>DEC 07</b>					<b>SUNSET: 1722</b>				
03	SCT	060	7.00	MIFG	60	60	60	100	0	00	30.05	30.16	03	OVC	028	10.00		58	53	55	84	10	04	30.19	30.30				
06	SCT	060	5.00	BR	61	61	61	100	0	00	30.09	30.20	06	OVC	014	10.00		56	50	53	81	9	06	30.19	30.29				
09	OVC	110	5.00	BR	66	65	65	96	0	00	30.16	30.27	09	OVC	014	10.00		54	52	53	93	7	03	30.24	30.35				
12	OVC	080	7.00	-RA	68	64	66	87	6	19	30.16	30.27	12	OVC	012	10.00		56	50	53	81	7	04	30.22	30.33				
15	OVC	009	8.00		52	49	50	89	16	33	30.18	30.29	15	OVC	038	10.00		58	50	54	75	3	VR	30.13	30.24				
18	OVC	013	10.00		47	43	45	86	15	34	30.24	30.35	18	OVC	036	10.00		57	51	54	81	3	29	30.14	30.25				
21	OVC	016	10.00		47	41	44	80	13	35	30.24	30.37	21	OVC	034	10.00		57	50	53	78	7	34	30.14	30.25				
24	OVC	016	10.00		45	39	42	80	10	35	30.24	30.36	24	OVC	029	10.00		56	50	53	81	5	01	30.14	30.26				
<b>SUNRISE: 0700</b>					<b>DEC 02</b>					<b>SUNSET: 1721</b>					<b>SUNRISE: 0705</b>					<b>DEC 08</b>					<b>SUNSET: 1722</b>				
03	OVC	014	10.00		45	39	42	80	15	36	30.24	30.35	03	OVC	030	10.00		52	46	49	80	6	03	30.16	30.28				
06	OVC	016	10.00		45	36	41	71	10	01	30.22	30.34	06	FEW	028	10.00		48	44	46	86	7	04	30.16	30.28				
09	OVC	016	10.00		47	35	42	63	10	35	30.24	30.36	09	CLR	NC	10.00		51	43	47	74	7	04	30.22	30.34				
12	OVC	017	10.00		51	40	46	66	5	VR	30.19	30.31	12	CLR	NC	10.00		60	45	52	58	8	01	30.19	30.31				
15	OVC	014	10.00		55	46	50	72	5	35	30.13	30.24	15	FEW	250	10.00		66	46	55	49	6	VR	30.14	30.26				
18	OVC	015	10.00		54	47	50	77	6	04	30.11	30.24	18	FEW	250	10.00		61	45	53	56	0	00	30.16	30.27				
21	OVC	011	10.00		53	49	51	86	5	12	30.13	30.24	21	CLR	NC	10.00		52	46	49	80	5	34	30.19	30.30				
24	OVC	003	2.00	BR	52	51	51	97	3	17	30.10	30.21	24	FEW	250	10.00		49	46	48	90	0	00	30.21	30.32				
<b>SUNRISE: 0701</b>					<b>DEC 03</b>					<b>SUNSET: 1721</b>					<b>SUNRISE: 0706</b>					<b>DEC 09</b>					<b>SUNSET: 1722</b>				
03	OVC	002	0.25	FG	52	52	52	100	0	00	30.08	30.19	03	FEW	250	8.00		46	44	45	93	0	00	30.19	30.31				
06	OVC	004	2.00	BR	53	52	52	96	0	00	30.10	30.21	06	FEW	250	7.00		46	43	45	89	3	36	30.19	30.30				
09	OVC	003	0.50	-DZ BR	54	53	53	97	6	05	30.14	30.27	09	FEW	250	10.00		51	46	49	83	5	03	30.22	30.35				
12	OVC	019	8.00		61	55	58	81	5	VR	30.11	30.22	12	SCT	250	10.00		65	47	55	52	3	04	30.22	30.34				
15	BKN	200	8.00		66	56	60	70	6	12	30.03	30.14	15	BKN	250	10.00		68	46	56	45	5	VR	30.14	30.26				
18	BKN	250	10.00		59	56	57	90	8	08	30.06	30.18	18	BKN	250	10.00		56	49	52	77	0	00	30.14	30.24				
21	OVC	006	8.00		56	55	55	97	6	06	30.08	30.19	21	BKN	250	10.00		51	48	49	89	0	00	30.16	30.27				
24	BKN	065	5.00		56	55	55	97	3	01	30.09	30.20	24	SCT	250	9.00		48	47	48	96	0	00	30.14	30.26				
<b>SUNRISE: 0702</b>					<b>DEC 04</b>					<b>SUNSET: 1721</b>					<b>SUNRISE: 0706</b>					<b>DEC 10</b>					<b>SUNSET: 1722</b>				
03	BKN	250	4.00	BR	55	54	54	96	7	06	30.05	30.16	03	FEW	250	8.00		44	43	44	96	0	00	30.14	30.25				
06	OVC	045	6.00	BR	56	55	55	97	5	11	30.05	30.16	06	FEW	250	7.00		45	44	45	97	0	00	30.14	30.25				
09	OVC	005	4.00	BR	59	57	58	93	5	10	30.09	30.20	09	BKN	250	7.00		52	48	50	86	5	04	30.16	30.28				
12	OVC	009	7.00		67	61	63	81	8	13	30.05	30.16	12	BKN	250	10.00		63	49	55	60	6	12	30.13	30.24				
15	OVC	015	10.00		69	63	65	81	9	14	29.98	30.10	15	BKN	250	10.00		68	46	56	45	7	VR	30.06	30.18				
18	OVC	011	10.00		66	63	64	90	9	10	29.98	30.09	18	BKN	250	10.00		60	50	55	70	9	14	30.06	30.18				
21	OVC	004	5.00	BR	65	64	64	97	8	12	29.98	30.09	21	OVC	110	10.00		58	53	55	84	6	15	30.08	30.19				
24	OVC	002	0.25	BR	65	64	64	97	7	13	29.98	30.09	24	OVC	090	10.00		57	54	55	90	7	14	30.06	30.18				
<b>SUNRISE: 0703</b>					<b>DEC 05</b>					<b>SUNSET: 1722</b>					<b>SUNRISE: 0707</b>					<b>DEC 11</b>					<b>SUNSET: 1722</b>				
03	VV	002	0.12	FG	65	65	65	100	5	13	29.96	30.07	03	OVC	090	10.00		57	55	56	93	3	11	30.06	30.16				
06	VV	002	0.12	-RA FG	66	66	66	100	7	14	29.96	30.07	06	OVC	090	9.00		57	55	56	93	3	08	30.09	30.20				
09	OVC	006	4.00	BR	70	69	69	97	5	19	30.02	30.13	09	OVC	110	10.00		59	56	57	90	5	10	30.13	30.24				
12	BKN	250	10.00		78	68	71	71	10	21	30.00	30.11	12	OVC	095	10.00		69	55	61	61	5	18	30.11	30.22				
15	BKN	100	10.00		77	70	72	79	7	VR	29.95	30.06	15	OVC	110	10.00		71	53	61	53	5	VR	30.05	30.16				
18	SCT	250	10.00		74	67	69	79	6	19	29.98	30.09	18	BKN	250	10.00		67	54	60	63	7	17	30.08	30.19				
21	SCT	250	10.00		70	68	69	93	5	18	30.03	30.14	21	BKN	110	10.00		61	56	58	84	5	17	30.11	30.23				
24	OVC	012	8.00		71	68	69	90	7	23	30.06	30.17	24	BKN	110	10.00		60	54	57	80	0	00	30.13	30.24				
<b>SUNRISE: 0703</b>					<b>DEC 06</b>					<b>SUNSET: 1722</b>					<b>SUNRISE: 0708</b>					<b>DEC 12</b>					<b>SUNSET: 1723</b>				
03	OVC	010	10.00		70	68	69	93	0	00	30.06	30.18	03	OVC	090	10.00		62	58	60	86	5	17	30.14	30.25				
06	OVC	014	10.00		69	67	68	93	3	28	30.09	30.20	06	OVC	100	8.00		60	58	59	93	3	15	30.14	30.26				
09	OVC	008	6.00	BR	67	63	65	87	13	34	30.16	30.27	09	BKN	120	10.00		64	58	61	81	6	15	30.19	30.30				
12	OVC	007	6.00	BR	64	61	62	90	14	36	30.18	30.29	12	BKN	120	10.00		71	55	62	57	9	15	30.18	30.29				
15	OVC	009	7.00		63	58	60	84	11	02	30.14	30.25	15	SCT	090	10.00		72	52	61	50	15	16	30.11	30.22				
18	OVC	013	10.00		61	56	58	84	11	02	30.18	30.29	18	SCT	250	10.00		65	56	60	73	11	13	30.13	30.24				
21	OVC	028	10.00		61	55	58	81	10	36	30.21	30.32	21	SCT	250	10.00		62	57	59	84	11	15	30.14	30.26				
24	BKN	029	10.00		58	54	56	87	5	01	30.19	30.31	24	FEW	250	8.00		58	56	57	93	6	12	30.14	30.24				

# OBSERVATIONS AT 3-HOURLY INTERVALS

# HOUSTON, TX

## DECEMBER 2014

## 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: 0708</b>					<b>DEC 13</b>					<b>SUNSET: 1723</b>					<b>SUNRISE: 0712</b>					<b>DEC 19</b>					<b>SUNSET: 1725</b>																																																																																																																																																																																											
03	SCT	250	6.00	BR	55	54	54	96	3	12	30.11	30.22	03	OVC	005	3.00	TS+RA	BR	57	56	56	96	0	00	29.95	30.05	06	BKN	250	5.00	BR	56	55	55	97	3	10	30.11	30.22	06	OVC	040	4.00	-RA	BR	57	56	56	96	9	07	29.90	30.01	09	SCT	250	7.00		62	60	61	93	7	11	30.13	30.24	09	OVC	013	5.00	-RA	BR	59	58	58	96	5	01	29.95	30.06	12	BKN	023	10.00		72	61	65	68	15	14	30.10	30.21	12	OVC	007	2.00	+RA	BR	53	52	52	96	14	01	29.97	30.09	15	SCT	050	10.00		71	62	65	73	14	13	30.03	30.14	15	OVC	041	10.00	-RA		54	52	53	93	10	04	29.92	30.03	18	BKN	045	10.00		66	61	63	84	16	13	30.03	30.14	18	OVC	011	10.00		66	61	63	84	16	13	30.03	30.14	21	BKN	012	10.00		65	62	63	90	9	14	30.03	30.14	21	OVC	013	10.00		54	52	53	93	11	36	30.00	30.11	24	SCT	036	8.00		62	61	61	96	5	12	30.00	30.11	24	OVC	006	10.00		52	50	51	93	9	36	30.03	30.14
<b>SUNRISE: 0709</b>					<b>DEC 14</b>					<b>SUNSET: 1723</b>					<b>SUNRISE: 0712</b>					<b>DEC 20</b>					<b>SUNSET: 1726</b>																																																																																																																																																																																											
03	OVC	002	0.25	BR	62	61	61	96	7	11	29.95	30.06	03	OVC	005	9.00			51	49	50	92	11	36	30.03	30.14	06	OVC	003	0.25	BR	62	62	62	100	9	13	29.94	30.05	06	OVC	008	10.00		51	48	49	89	9	03	30.05	30.16	09	BKN	250	10.00		66	63	64	90	8	14	29.96	30.06	09	OVC	007	8.00		51	49	50	92	8	01	30.09	30.20	12	BKN	250	10.00		75	62	67	64	16	15	29.90	30.01	12	OVC	010	10.00		54	49	51	83	9	02	30.08	30.19	15	BKN	045	10.00		74	62	67	67	20	15	29.82	29.92	15	OVC	019	10.00		54	49	51	83	7	02	30.03	30.16	18	BKN	090	10.00		71	63	66	76	11	16	29.82	29.93	18	OVC	014	10.00		52	48	50	86	0	00	30.05	30.16	21	BKN	044	10.00		69	64	66	84	7	17	29.84	29.95	21	SCT	025	10.00		51	47	49	86	5	32	30.06	30.19	24	OVC	014	10.00		70	66	67	87	9	17	29.83	29.93	24	OVC	023	10.00		51	47	49	86	7	06	30.06	30.18				
<b>SUNRISE: 0710</b>					<b>DEC 15</b>					<b>SUNSET: 1724</b>					<b>SUNRISE: 0713</b>					<b>DEC 21</b>					<b>SUNSET: 1726</b>																																																																																																																																																																																											
03	BKN	055	10.00		69	66	67	90	9	18	29.82	29.92	03	OVC	022	10.00			50	46	48	86	5	05	30.05	30.16	06	OVC	070	10.00		69	66	67	90	7	20	29.82	29.93	06	OVC	024	10.00		48	44	46	86	7	05	30.01	30.12	09	OVC	022	10.00		70	66	67	87	10	23	29.88	29.98	09	OVC	025	10.00		50	45	48	83	7	03	30.02	30.13	12	BKN	032	10.00		76	65	69	69	11	23	29.86	29.97	12	BKN	095	10.00		57	47	52	69	5	06	29.97	30.08	15	SCT	055	10.00		78	61	67	56	10	25	29.82	29.93	15	BKN	090	10.00		60	49	54	67	3	14	29.87	29.98	18	SCT	250	10.00		70	55	61	59	5	31	29.87	29.98	18	OVC	031	10.00		58	50	54	75	5	12	29.83	29.94	21	SCT	250	10.00		63	40	52	43	9	34	29.97	30.08	21	BKN	041	10.00		55	52	53	90	9	14	29.80	29.91	24	SCT	250	10.00		59	38	49	46	8	35	30.03	30.14	24	OVC	006	7.00		56	54	55	93	6	15	29.76	29.87				
<b>SUNRISE: 0710</b>					<b>DEC 16</b>					<b>SUNSET: 1724</b>					<b>SUNRISE: 0713</b>					<b>DEC 22</b>					<b>SUNSET: 1727</b>																																																																																																																																																																																											
03	FEW	060	10.00		54	35	45	49	6	34	30.06	30.18	03	OVC	005	6.00	BR		56	55	55	97	6	13	29.70	29.81	06	FEW	060	10.00		52	34	44	50	5	35	30.11	30.23	06	BKN	042	3.00	BR	56	55	55	97	3	15	29.65	29.76	09	FEW	060	10.00		55	34	45	45	14	36	30.18	30.29	09	OVC	009	7.00		65	61	63	87	6	22	29.66	29.76	12	FEW	250	10.00		63	35	50	35	9	35	30.18	30.28	12	BKN	250	10.00		70	59	63	68	15	24	29.60	29.71	15	SCT	250	10.00		66	37	52	34	8	32	30.11	30.22	15	BKN	250	10.00		71	60	64	68	11	22	29.51	29.62	18	SCT	250	10.00		58	37	48	46	7	01	30.11	30.23	18	BKN	250	10.00		68	61	64	78	3	21	29.51	29.62	21	BKN	250	10.00		51	38	45	61	0	00	30.18	30.29	21	SCT	250	10.00		62	59	60	90	0	00	29.55	29.65	24	BKN	250	10.00		48	38	43	68	5	04	30.18	30.29	24	OVC	002	0.50	BR	60	59	59	96	5	28	29.56	29.67				
<b>SUNRISE: 0711</b>					<b>DEC 17</b>					<b>SUNSET: 1724</b>					<b>SUNRISE: 0714</b>					<b>DEC 23</b>					<b>SUNSET: 1727</b>																																																																																																																																																																																											
03	FEW	250	10.00		46	39	43	77	6	03	30.13	30.24	03	VV	002	0.00	FG		59	59	59	100	5	34	29.53	29.63	06	OVC	250	10.00		47	38	43	71	6	05	30.14	30.25	06	OVC	012	5.00	BR	59	58	58	96	8	05	29.48	29.58	09	OVC	090	10.00		49	39	44	69	7	07	30.14	30.27	09	OVC	016	1.00	TS+RA	BR	54	52	53	93	22	36	29.53	29.63	12	OVC	100	10.00		58	46	52	65	9	11	30.10	30.21	12	BKN	032	10.00		57	49	53	74	21	36	29.54	29.65	15	OVC	090	10.00		62	52	56	70	13	12	30.01	30.12	15	OVC	048	10.00		56	45	50	67	22	35	29.56	29.66	18	OVC	250	10.00		61	53	57	75	14	12	29.98	30.09	18	BKN	075	10.00		53	43	48	69	14	33	29.68	29.79	21	OVC	013	10.00		59	53	56	81	8	12	30.01	30.12	21	SCT	110	10.00		50	41	46	71	11	32	29.75	29.86	24	OVC	011	10.00		57	54	55	90	5	07	30.01	30.11	24	BKN	180	10.00		48	39	44	71	9	30	29.81	29.92			
<b>SUNRISE: 0711</b>					<b>DEC 18</b>					<b>SUNSET: 1725</b>					<b>SUNRISE: 0714</b>					<b>DEC 24</b>					<b>SUNSET: 1728</b>																																																																																																																																																																																											
03	OVC	011	10.00		59	56	57	90	5	05	29.96	30.06	03	SCT	150	10.00			44	36	40	73	6	29	29.84	29.96	06	OVC	020	7.00	-RA	59	59	59	100	0	00	29.95	30.06	06	CLR	NC	10.00		43	33	39	68	9	31	29.87	29.98	09	OVC	008	2.50	BR	57	55	56	93	8	02	30.00	30.11	09	SCT	060	10.00		45	34	40	66	7	26	29.96	30.07	12	OVC	011	2.50	BR	64	59	61	84	6	06	29.98	30.09	12	BKN	045	10.00		49	34	42	56	14	30	29.98	30.09	15	OVC	041	10.00		69	62	65	78	6	04	29.93	30.03	15	SCT	050	10.00		54	34	45	47	11	29	29.96	30.06	18	OVC	055	10.00		64	60	62	87	9	06	29.95	30.05	18	FEW	250	10.00		48	35	42	61	3	26	29.98	30.09	21	OVC	010	10.00		62	58	60	86	9	07	29.96	30.07	21	CLR	NC	9.00		41	37	39	86	0	00	30.01	30.12	24	OVC	060	5.00	-RA	BR	59	58	58	96	10	09	29.93	30.04	24	CLR	NC	8.00		38	36	37	93	0	00	30.01	30.12			

# OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX  
DECEMBER 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: 0715 DEC 25					SUNSET: 1728							
03	CLR	NC	10.00		40	36	38	86	5	22	30.01	30.12
06	CLR	NC	10.00		36	34	35	93	3	16	30.02	30.13
09	BKN	250	10.00		47	40	44	77	6	17	30.06	30.17
12	SCT	250	10.00		62	40	51	44	13	18	30.03	30.15
15	BKN	250	10.00		64	43	53	46	15	18	29.96	30.08
18	BKN	250	10.00		59	45	52	60	13	16	29.95	30.06
21	SCT	250	10.00		54	47	50	77	6	15	29.94	30.05
24	BKN	250	10.00		51	48	49	89	3	15	29.94	30.05
SUNRISE: 0715 DEC 26					SUNSET: 1729							
03	OVC	250	10.00		59	53	56	81	0	00	29.92	30.03
06	OVC	045	10.00	-RA	61	57	59	87	8	14	29.89	30.00
09	BKN	060	10.00		66	60	62	81	9	14	29.91	30.02
12	OVC	025	10.00	-RA	69	61	64	76	9	17	29.89	30.00
15	OVC	025	10.00	-RA	71	62	65	73	10	17	29.83	29.94
18	OVC	024	10.00		69	63	65	81	10	15	29.84	29.95
21	OVC	020	10.00		67	63	65	87	9	11	29.89	30.00
24	OVC	026	10.00		67	65	66	93	7	12	29.89	29.99
SUNRISE: 0716 DEC 27					SUNSET: 1729							
03	OVC	007	7.00		67	66	66	97	7	13	29.87	29.98
06	OVC	011	10.00		70	68	69	93	8	15	29.87	29.98
09	OVC	060	7.00		70	68	69	93	0	00	29.92	30.03
12	OVC	040	8.00		74	71	72	91	10	16	29.87	29.97
15	OVC	013	9.00		53	51	52	93	15	33	29.91	30.02
18	OVC	011	10.00	-RA	49	47	48	93	11	34	30.01	30.11
21	OVC	015	10.00		48	43	46	83	13	34	30.06	30.17
24	OVC	041	10.00	-RA	46	42	44	86	9	32	30.09	30.20
SUNRISE: 0716 DEC 28					SUNSET: 1730							
03	OVC	100	9.00	-RA	44	41	43	89	10	35	30.06	30.17
06	OVC	100	9.00	-RA	42	40	41	92	10	01	30.06	30.17
09	OVC	009	9.00	-RA	42	40	41	92	9	35	30.10	30.21
12	OVC	009	10.00	-RA	42	40	41	92	8	34	30.10	30.21
15	OVC	006	2.00	RA BR	42	40	41	92	8	34	30.03	30.15
18	OVC	006	10.00		42	39	41	89	9	36	30.03	30.15
21	OVC	041	10.00		42	39	41	89	5	34	30.06	30.17
24	OVC	006	10.00		42	39	41	89	5	33	30.05	30.16
SUNRISE: 0716 DEC 29					SUNSET: 1731							
03	OVC	002	0.25	BR	41	41	41	100	6	35	30.03	30.14
06	OVC	002	0.25	BR	40	40	40	100	6	34	30.03	30.14
09	VV	002	0.25	FG	40	40	40	100	3	07	30.09	30.20
12	OVC	005	2.00	BR	45	41	43	87	0	00	30.08	
15	OVC	005	5.00	BR	47	44	46	90	0	00	30.00	30.11
18	OVC	004	7.00		47	45	46	93	5	VR	30.01	30.12
21	OVC	003	0.50	BR	47	46	47	97	6	12	30.06	30.17
24	OVC	004	2.00	BR	48	46	47	93	0	00	30.11	30.23
SUNRISE: 0717 DEC 30					SUNSET: 1731							
03	OVC	006	3.00		47	46	47	97	8	05	30.14	30.26
06	OVC	016	10.00		47	46	47	97	3	36	30.18	30.29
09	OVC	010	10.00		48	45	47	89	13	04	30.26	30.37
12	OVC	015	10.00		51	44	48	77	14	02	30.27	30.38
15	OVC	019	10.00		51	42	47	71	15	02	30.22	30.34
18	OVC	017	10.00		47	40	44	77	13	03	30.27	30.38
21	OVC	017	10.00		43	37	40	80	15	03	30.34	30.45
24	FEW	250	10.00		38	34	36	86	10	04	30.32	30.44

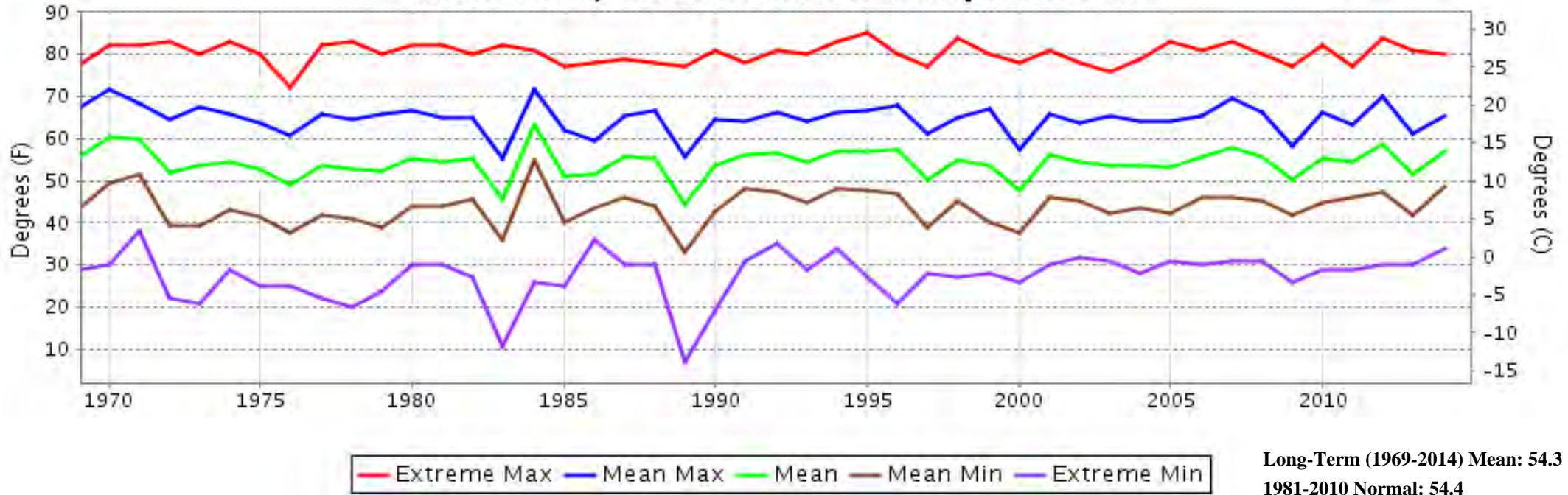
HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0717 DEC 31					SUNSET: 1732							
03	OVC	080	10.00		40	35	38	83	10	04	30.32	30.44
06	OVC	080	10.00		40	33	37	77	10	03	30.34	30.45
09	OVC	080	10.00		41	33	38	73	11	02	30.37	
12	OVC	060	10.00		44	34	40	68	9	02	30.34	30.45
15	OVC	060	10.00		45	35	41	68	15	02	30.26	30.37
18	OVC	065	10.00		44	35	40	71	14	02	30.26	30.37
21	OVC	065	10.00		44	34	40	68	8	02	30.29	30.40
24	OVC	095	10.00		44	34	40	68	10	04	30.24	30.35

**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.

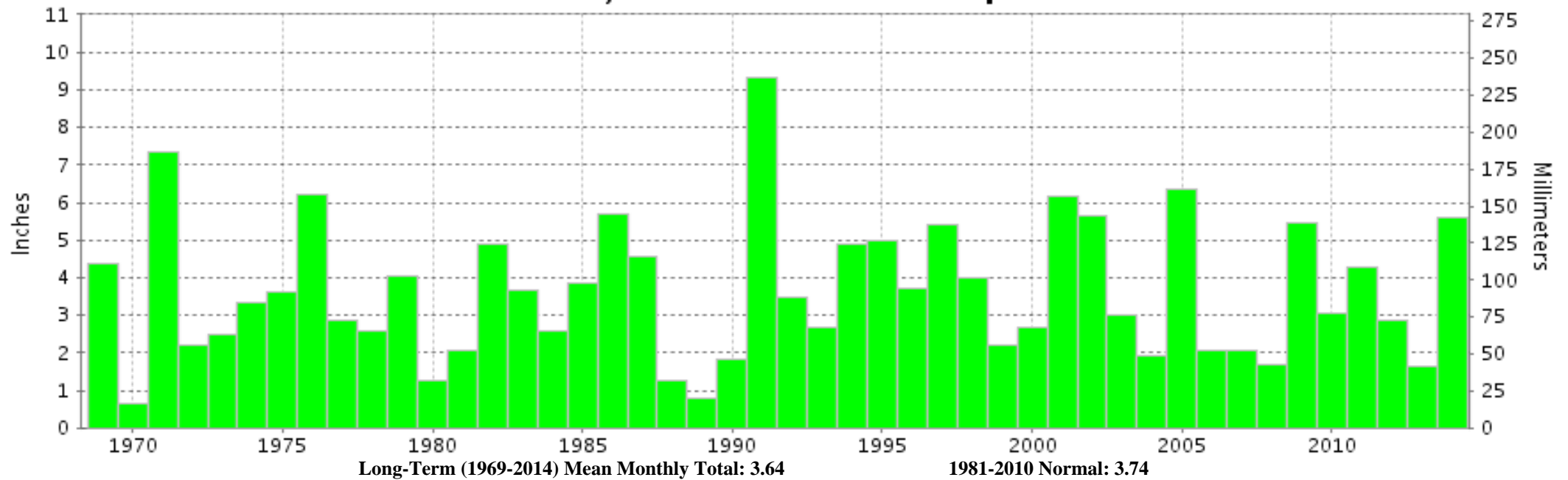
## SUMMARY BY HOUR

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	55	51	53	88	30.02	30.13	7.71	6	2	04
02	54	51	53	89	30.03	30.14	7.37	6	2	05
03	54	51	52	90	30.03	30.14	7.12	5	2	05
04	53	50	52	90	30.03	30.14	7.19	6	3	06
05	53	50	52	90	30.02	30.13	7.31	5	3	06
06	53	50	52	90	30.03	30.14	7.34	6	3	06
07	53	50	52	90	30.04	30.15	7.27	5	2	05
08	54	50	52	89	30.05	30.17	7.13	6	3	06
09	56	51	54	85	30.07	30.17	7.52	8	2	05
10	58	52	55	81	30.08	30.19	8.27	8	2	05
11	60	51	55	75	30.08	30.19	8.56	9	2	06
12	62	52	56	71	30.05	30.16	8.79	9	2	04
13	62	51	56	69	30.02	30.13	8.94	10	2	05
14	62	51	56	68	30.00	30.11	9.16	9	1	03
15	62	51	56	69	29.99	30.11	9.32	10	2	03
16	62	51	56	69	30.00	30.11	9.58	10	2	05
17	60	51	55	73	30.00	30.12	9.74	10	2	06
18	58	51	54	77	30.01	30.12	9.90	8	3	06
19	57	51	54	80	30.02	30.13	9.68	8	3	07
20	56	50	53	81	30.03	30.14	9.63	8	3	06
21	55	50	53	83	30.04	30.15	9.44	7	2	06
22	55	50	52	85	30.05	30.16	9.18	6	2	05
23	54	50	52	87	30.05	30.16	8.88	6	3	06
24	54	50	52	87	30.04	30.15	8.15	6	2	05

## HOUSTON, TX DECEMBER Temperatures



## HOUSTON, TX DECEMBER Precipitation





**DECEMBER 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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