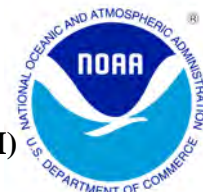




# DECEMBER 2012 LOCAL CLIMATOLOGICAL DATA

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



DECEMBER 2012  
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																										
																		SPEED 20	DIR 21	SPEED 22	DIR 23																										
01	83	63	73	16	64	67	0	8	RA	0		0.0	T	30.00	30.11	8.3	16	8.1	25	15	21	15	01																								
02	84*	59	72	16	64	66	0	7	FG MIFG BCFG BR	0		0.0	0.00	30.01	30.13	6.2	15	6.6	23	13	17	15	02																								
03	82	65	74	18	66	68	0	9	RA BR	0		0.0	0.08	29.93	30.05	6.4	17	7.1	20	21	15	14	03																								
04	83	59	71	15	66	67	0	6	TS TSRA RA FG+ MIFG BR	0		0.0	0.07	30.00	30.11	0.8	19	3.8	22	05	14	33	04																								
05	66	55	61	5	58	59	4	0	BR HZ	0		0.0	0.00	29.99	30.12	4.8	36	5.4	12	03	9	35	05																								
06	69	56	63	8	59	60	2	0		0		0.0	0.00	29.83	29.97	5.8	11	6.6	20	13	15	13	06																								
07	81	54	68	13	62	64	0	3	FG BR	0		0.0	0.00	29.75	29.87	3.5	15	4.0	18	20	14	13	07																								
08	83	62	73	18	64	67	0	8	BCFG BR	0		0.0	0.00	29.75	29.87	5.1	18	5.3	20	17	14	17	08																								
09	81	59	70	15	67	68	0	5	RA BCFG BR	0		0.0	0.06	29.73	29.85	4.8	19	6.0	23	32	18	33	09																								
10	59	38	49	-6	34	43	16	0	TSRA RA	0		0.0	0.19	29.93	30.02	13.9	34	14.1	39	34	30	34	10																								
11	55	32	44	-10	26	37	21	0		0		0.0	0.00	30.04	30.14	4.5	36	5.2	17	34	15	34	11																								
12	61	34	48	-6	25	37	17	0		0		0.0	0.00	30.17	30.28	2.3	05	2.7	15	15	9	06	12																								
13	64	32	48	-6	31	41	17	0		0		0.0	0.00	30.15	30.28	3.8	11	4.9	17	11	13	11	13																								
14	70	48	59	5	52	56	6	0	RA	0		0.0	T	29.95	30.09	8.8	13	9.6	25	13	21	13	14																								
15	81	68	75*	21	66	69	0	10	RA BR	0		0.0	T	29.78	29.91	7.7	17	8.1	23	16	17	17	15																								
16	72	59	66	13	65	65	0	1	TS TSRA RA FG+ BCFG BR	0		0.0	1.58	29.70	29.81	2.8	18	3.8	30	03	20	27	16																								
17	69	45	57	4	44	52	8	0	FG+ FG BR	0		0.0	0.00	29.78	29.89	5.1	29	5.6	22	32	17	31	17																								
18	80	43	62	9	51	56	3	0		0		0.0	0.00	29.78	29.90	5.1	18	5.5	18	16	14	17	18																								
19	81	64	73	20	66	68	0	8		0		0.0	0.00	29.67	29.80	11.2	17	11.5	33	16	23	16	19																								
20	75	40	58	5	26	42	7	0	TS TSRA RA HZ	0		0.0	0.06	30.17	30.22	13.2	32	14.6	44	31	31	33	20																								
21	62	32	47	-6	23	39	18	0		0		0.0	0.00	30.31	30.41	1.2	24	2.4	12	02	8	23	21																								
22	69	33	51	-2	41	47	14	0		0		0.0	0.00	30.13	30.28	4.8	15	5.2	26	14	18	15	22																								
23	75	60	68	15	59	63	0	3		0		0.0	0.00	29.85	29.99	6.9	20	7.1	24	23	17	22	23																								
24	75	58	67	15	53	59	0	2	RA BR	0		0.0	T	29.73	29.88	1.3	27	4.4	21	23	13	23	24																								
25	77	36	57	5	49	54	8	0	RA BR HZ	0		0.0	0.04	29.68	29.75	10.6	29	15.9	51*	31	39*	31	25																								
26	47	33	40*	-12	28	35	25	0		0		0.0	0.00	30.05	30.15	9.4	33	9.9	31	33	23	31	26																								
27	53	31	42	-10	39	42	23	0	RA BR	0		0.0	0.08	29.85	30.00	7.0	08	7.3	17	08	15	10	27																								
28	60	43	52	0	46	49	13	0	RA BR	0		0.0	0.12	29.83	29.93	10.0	33	11.3	32	31	25	34	28																								
29	51	34	43	-9	25	36	22	0		0		0.0	0.00	30.27	30.35	9.3	34	9.5	29	35	22	34	29																								
30	51	30*	41	-11	31	38	24	0		0		0.0	0.00	30.26	30.39	5.8	10	6.3	18	13	15	14	30																								
31	67	46	57	5	55	56	8	0	RA FG+ BR	0		0.0	0.57	29.91	30.07	7.1	12	7.4	20	13	15	13	31																								
										69.9		47.5		58.7		X		48.5		53.9		8.3		2.3		< MONTHLY AVERAGES   TOTALS >				0.0		2.85		29.93		30.05		0.6		17		7.3		< MONTHLY AVERAGES			
										5.6		2.9		4.3		X		<-----DEPARTURE FROM NORMAL----->										-0.89		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																	
<b>DEGREE DAYS</b>										GREATEST 24-HR PRECIPITATION : 1.58 DATE : 16										SEA LEVEL PRESSURE										DATE TIME																	
MONTHLY										GREATEST 24-HR SNOWFALL : 0.0 DATE :										MAXIMUM :										30.52 21 1046																	
SEASON TO DATE										GREATEST SNOW DEPTH : 0 DATE :										MINIMUM :										29.58 25 0853																	
TOTAL DEPARTURE										TOTAL DEPARTURE										NUMBER OF ->										MAXIMUM TEMP >= 90 : 0				MINIMUM TEMP <= 32 : 5				PRECIPITATION >= 0.01 INCH : 10									
HEATING : 256 -98										424 -115										MAXIMUM TEMP <= 32 : 0										MINIMUM TEMP <= 0 : 0				PRECIPITATION >= 0.10 INCH : 4													
COOLING : 70 43										3571 416										THUNDERSTORMS : 4										HEAVY FOG : 4				SNOWFALL >= 1.0 INCH : 0													

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX (KIAH)  
DECEMBER 2012

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							01												01	T	T	
02													02												02	0.00	0.00	
03		T			T	0.03	0.01	0.04	T				03											03	0.08	0.08		
04													04	T		T	0.03	0.03	T	0.01	T			04	0.07	0.07		
05													05											05	0.00	0.00		
06													06											06	0.00	0.00		
07													07											07	0.00	0.00		
08													08											08	0.00	0.00		
09													09										0.06	09	0.06	0.06		
10	0.07	0.12	T										10											10	0.19	0.19		
11													11											11	0.00	0.00		
12													12											12	0.00	0.00		
13													13											13	0.00	0.00		
14													14											14	T	T		
15													15											15	T	T		
16													16	0.02										16	1.58	1.58		
17													17											17	0.00	0.00		
18													18											18	0.00	0.00		
19													19											19	0.00	0.00		
20			T	0.06									20											20	0.06	0.06		
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	0.04	T	T						T	T	T	T	25											25	0.04	0.04		
26													26											26	0.00	0.00		
27													27			T	T	T	0.02	0.04	0.01	T	0.01	T	27	0.08	0.08	
28	T	0.02	T	T	0.10		T	T					28											28	0.12	0.12		
29													29											29	0.00	0.00		
30													30											30	0.00	0.00		
31											0.01		31	T	0.01	0.01	T	0.02	T		0.01	T	0.51	T	31	0.57	0.57	

\* 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)	0.40	0.62	0.76	0.85	1.08	1.20	1.34	1.41	1.44	1.48	1.50	1.50
Ending Date	16	16	16	16	16	16	16	16	16	16	16	16
Ending Time (Hr/Min)	0852	0853	0855	0855	0857	0912	0928	0947	1008	1028	1042	1042

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 Unkown Precipitation		

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

# HOUSTON, TX DECEMBER 2012

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							7.00	10.00	
02							1.00	10.00	
03							3.00	10.00	
04							0.00	10.00	
05							2.50	10.00	
06							7.00	10.00	
07							0.50	10.00	
08							6.00	10.00	
09							0.75	10.00	
10							8.00	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							6.00	10.00	
16							0.25	10.00	
17							0.25	10.00	
18							0.25	10.00	
19							8.00	10.00	
20							6.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							6.00	10.00	
25							6.00	10.00	
26							2.50	10.00	
27							1.00	10.00	
28							1.00	10.00	
29							1.00	10.00	
30							10.00	10.00	
31							0.25	10.00	
MONTHLY AVGS							4.98	10.00	
<b>SUNSHINE (Minutes)</b>									
Total : 0					Possible : 19079				
Percent Possible : 0									
<b>NUMBER OF DAYS WITH : SKY CONDITION</b>									
Clear		Partly CLDY		Cloudy		Missing			
<b>MINIMUM VISIBILITY (MILES)</b>									
<= .25			<= 3.0			>= 7.0			
5			14			12			

# OBSERVATIONS AT 3-HOURLY INTERVALS

# HOUSTON, TX

## DECEMBER 2012

## KIAH

## WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)								
			Observation Time (LST)	Eff Cld Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)				STATION	SEA LEVEL		Observation Time (LST)	Eff Cld Amt Oktas	VISIBILITY (MILES)		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL			
																												Observation Time (LST)	Eff Cld Amt Oktas	VISIBILITY (MILES)
<b>SUNRISE: 0660 DEC 01</b>						<b>SUNSET: 1721</b>						<b>SUNRISE: 0704 DEC 07</b>						<b>SUNSET: 1722</b>												
03	BKN	060				66	65	65	97	3	15	30.01	30.12	03	BKN	016				7.00			56	56	56	100	0	00	29.78	29.88
06	BKN	050				65	64	64	97	3	12	30.02	30.13	06	VV	002				0.50	FG		58	58	58	100	0	00	29.77	29.88
09	SCT	250				70	66	67	87	6	14	30.05	30.15	09	BKN	250				1.00	BR		62	62	62	100	0	00	29.80	29.91
12	SCT	250				80	64	70	58	10	19	30.03	30.14	12	BKN	250				10.00			77	64	69	64	5	20	29.77	29.88
15	SCT	047				82	63	70	53	11	18	29.95	30.06	15	BKN	250				10.00			78	64	69	62	9	12	29.70	29.81
18	BKN	090				75	64	68	69	11	16	29.97	30.08	18	SCT	250				10.00			72	66	68	82	5	16	29.71	29.82
21	BKN	024				70	65	67	84	5	16	30.00	30.11	21	BKN	250				10.00			69	66	67	90	6	15	29.75	29.85
24	OVC	028				67	65	66	93	6	15	30.01	30.12	24	BKN	130				10.00			67	65	66	93	0	00	29.76	29.87
<b>SUNRISE: 0700 DEC 02</b>						<b>SUNSET: 1721</b>						<b>SUNRISE: 0705 DEC 08</b>						<b>SUNSET: 1722</b>												
03	FEW	023				64	63	63	97	0	00	30.01	30.12	03	BKN	130				9.00			64	63	63	97	0	00	29.75	29.85
06	BKN	080			MIFG	61	61	61	100	0	00	30.03	30.14	06	SCT	070				10.00			64	64	64	100	0	00	29.77	29.88
09	BKN	080			BCFG	67	67	67	100	3	11	30.06	30.18	09	BKN	250				6.00	BR		67	67	67	100	5	15	29.81	29.92
12	SCT	090			BR	80	63	69	56	9	18	30.05	30.16	12	BKN	250				10.00			80	65	70	60	7	18	29.78	29.89
15	SCT	250				82	58	67	44	11	16	29.98	30.09	15	SCT	250				10.00			83	60	68	46	8	21	29.71	29.82
18	SCT	250				73	66	69	79	13	14	29.98	30.10	18	SCT	250				10.00			76	64	68	67	11	17	29.72	29.83
21	FEW	030				69	66	67	90	9	15	30.01	30.12	21	FEW	250				10.00			72	67	69	84	6	17	29.76	29.87
24	SCT	250				67	65	66	93	3	12	30.00	30.11	24	FEW	250				10.00			70	68	69	93	3	18	29.77	29.87
<b>SUNRISE: 0701 DEC 03</b>						<b>SUNSET: 1721</b>						<b>SUNRISE: 0706 DEC 09</b>						<b>SUNSET: 1722</b>												
03	OVC	050				68	66	67	93	3	16	29.96	30.07	03	SCT	250				6.00	BCFG		68	67	67	97	0	00	29.75	29.86
06	OVC	016			-RA BR	68	68	68	100	7	14	29.96	30.07	06	SCT	250				5.00	BCFG		62	62	62	100	0	00	29.77	29.88
09	BKN	250			BR	71	69	70	93	7	17	29.98	30.09	09	SCT	120				6.00			67	67	67	100	5	17	29.81	29.92
12	BKN	250				77	67	70	71	9	18	29.95	30.06	12	OVC	065				10.00			77	68	71	74	11	19	29.77	29.88
15	BKN	250				80	65	70	60	8	15	29.89	30.00	15	OVC	250				9.00			79	67	71	67	8	19	29.69	29.80
18	SCT	250				77	62	68	60	10	17	29.90	30.01	18	BKN	050				10.00			76	68	71	76	11	18	29.68	29.79
21	SCT	250				71	67	68	87	7	17	29.94	30.05	21	OVC	017				10.00			74	69	71	84	3	VR	29.72	29.83
24	SCT	250				68	67	67	97	7	17	29.93	30.04	24	OVC	065				7.00	+RA		60	57	58	90	13	33	29.74	29.85
<b>SUNRISE: 0702 DEC 04</b>						<b>SUNSET: 1721</b>						<b>SUNRISE: 0706 DEC 10</b>						<b>SUNSET: 1722</b>												
03	OVC	006				70	69	69	97	0	00	29.96	30.06	03	OVC	025				10.00			56	52	54	87	16	34	29.76	29.87
06	OVC	004			BR	68	68	68	100	3	13	29.98	30.08	06	OVC	028				10.00			47	35	42	63	22	35	29.86	29.97
09	OVC	002			FG	70	70	70	100	0	00	30.03	30.14	09	OVC	047				10.00			45	28	38	51	13	33	29.92	30.02
12	SCT	250				82	64	70	55	11	21	30.00	30.11	12	OVC	065				10.00			50	26	40	39	13	32	29.96	30.07
15	BKN	070				72	65	68	79	6	03	29.97	30.08	15	FEW	250				10.00			54	29	43	38	18	33	29.91	30.02
18	OVC	120			-RA	67	64	65	90	6	04	30.02	30.13	18	BKN	250				10.00			48	29	40	48	11	33	29.93	30.04
21	OVC	090				66	65	65	97	5	36	30.05	30.15	21	SCT	250				10.00			42	26	36	53	8	34	30.00	30.11
24	SCT	250			BR	61	61	61	100	3	28	30.03	30.15	24	FEW	250				10.00			39	26	34	60	6	34	30.01	30.13
<b>SUNRISE: 0703 DEC 05</b>						<b>SUNSET: 1722</b>						<b>SUNRISE: 0707 DEC 11</b>						<b>SUNSET: 1722</b>												
03	CLR	NC				59	56	57	90	5	35	30.03	30.14	03	FEW	250				10.00			36	25	32	64	6	34	30.01	30.12
06	CLR	NC				56	53	54	90	5	33	30.03	30.14	06	CLR	NC				10.00			33	25	30	72	5	34	30.03	30.14
09	OVC	007				59	55	57	87	6	01	30.09	30.20	09	SCT	250				10.00			39	26	34	60	9	03	30.08	30.19
12	OVC	012			BR	63	59	61	87	6	34	30.05	30.16	12	SCT	250				10.00			51	24	40	35	11	01	30.03	30.14
15	OVC	026				64	59	61	84	3	VR	29.98	30.09	15	SCT	250				10.00			54	22	41	29	8	34	30.00	30.11
18	OVC	046				64	60	62	87	6	33	29.98	30.09	18	BKN	250				10.00			50	24	40	36	5	03	30.02	30.13
21	OVC	020				62	60	61	93	0	00	29.97	30.08	21	BKN	250				10.00			45	27	38	49	3	36	30.08	30.19
24	SCT	006				58	57	57	97	3	05	29.95	30.05	24	BKN	130				10.00			43	29	37	58	3	34	30.13	30.24
<b>SUNRISE: 0703 DEC 06</b>						<b>SUNSET: 1722</b>						<b>SUNRISE: 0708 DEC 12</b>						<b>SUNSET: 1723</b>												
03	OVC	033				59	59	59	100	3	06	29.92	30.03	03	CLR	NC				10.00			38	28	34	67	0	00	30.13	30.24
06	OVC	006				59	58	58	97	8	11	29.89	29.99	06	CLR	NC				10.00			35	28	32	76	3	34	30.16	30.27
09	OVC	006				59	58	58	97	6	11	29.91	30.02	09	CLR	NC				10.00			43	30	38	60	8	05	30.22	30.34
12	OVC	012				64	58	60	81	6	12	29.88	29.99	12	CLR	NC				10.00			54	19	40	25	8	05	30.22	30.34
15	SCT	021				68	59	63	73	6	12	29.80	29.91	15	CLR	NC				10.00			59	12	42	16	8	05	30.14	30.26
18	SCT	020				63	59	61	87	8	11	29.79	29.90	18	CLR	NC				10.00			48	27	39	44	0	00	30.14	30.26
21	BKN	015				64	60	62	87	9	14	29.80	29.91	21	CLR	NC				10.00			39	28	35	65	0	00	30.19	30.30
24	FEW	012				57	57	57	100	0	00	29.79	29.90	24	CLR	NC				10.00			39	26	34	60	0	00	30.19	30.31

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX  
DECEMBER 2012

KIAH

WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE			WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE			WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)											
			Observation Time (LST)	Eff Cld Amt Oktas	VISIBILITY (MILES)		DRY BULB	DEW POINT	WET BULB		RELATIVE HUMIDITY (PCT)	STATION				SEA LEVEL	Observation Time (LST)	Eff Cld Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL								
																												Observation Time (LST)	Eff Cld Amt Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)
<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	CLR	NC			10.00		38	29	34	70	3	02	30.19	30.29	03	CLR	NC			10.00		68	65	66	90	9	16	29.74	29.85						
06	CLR	NC			10.00		34	28	32	79	5	04	30.19	30.30	06	SCT	028			10.00		68	66	67	93	8	17	29.72	29.83						
09	CLR	NC			10.00		45	33	40	63	0	00	30.24	30.35	09	BKN	250			9.00		71	68	69	90	14	17	29.75	29.86						
12	CLR	NC			10.00		58	28	45	32	5	11	30.22	30.33	12	BKN	250			10.00		79	67	71	67	20	16	29.70	29.81						
15	CLR	NC			10.00		64	22	46	20	8	14	30.14	30.25	15	BKN	250			10.00		80	66	71	62	11	19	29.64	29.75						
18	FEW	070			10.00		56	35	46	45	5	16	30.13	30.24	18	BKN	250			10.00		76	68	71	76	10	18	29.62	29.73						
21	BKN	070			10.00		50	40	45	69	6	12	30.14	30.25	21	BKN	023			10.00		74	69	71	84	13	17	29.64	29.75						
24	SCT	060			10.00		53	38	46	57	7	11	30.10	30.21	24	BKN	029			10.00		75	69	71	82	9	22	29.67	29.78						
<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	BKN	090			10.00		51	41	46	69	5	11	30.09	30.20	03	BKN	036			7.00	TS	61	51	56	70	14	31	29.78	29.89						
06	OVC	075			10.00		54	40	47	59	6	09	30.08	30.19	06	SCT	060			10.00		54	28	43	37	18	32	29.96	30.06						
09	OVC	090			10.00		57	45	51	64	10	10	30.06	30.18	09	FEW	250			10.00		46	26	38	46	16	33	30.11	30.23						
12	OVC	120			10.00		63	54	58	73	9	12	30.03	30.15	12	FEW	250			10.00		54	24	42	31	21	33	30.19	30.30						
15	OVC	031			10.00		67	60	63	78	15	14	29.91	30.02	15	FEW	250			10.00		56	15	41	20	22	33	30.16	30.28						
18	OVC	150			10.00		65	61	63	87	14	13	29.86	29.96	18	FEW	250			10.00		51	13	37	22	16	33	30.24	30.35						
21	OVC	150			10.00		67	63	65	87	3	16	29.87	29.98	21	FEW	250			10.00		45	19	35	35	3	29	30.29	30.41						
24	OVC	200			10.00		70	64	66	81	10	17	29.83	29.94	24	FEW	250			10.00		41	19	33	41	3	27	30.34	30.45						
<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	OVC	055			10.00		70	65	67	84	10	15	29.83	29.94	03	CLR	NC			10.00		38	20	32	48	5	29	30.35	30.46						
06	OVC	060			10.00		70	66	67	87	0	00	29.82	29.93	06	CLR	NC			10.00		34	22	30	62	0	00	30.37	30.47						
09	OVC	042		6.00	-RA BR		71	67	68	87	3	19	29.85	29.96	09	SCT	250			10.00		41	20	33	43	0	00	30.40	30.52						
12	SCT	250			10.00		78	68	71	71	14	17	29.81	29.92	12	SCT	250			10.00		57	13	41	17	5	07	30.35	30.47						
15	BKN	250			10.00		79	68	72	69	14	17	29.74	29.84	15	BKN	250			10.00		60	15	43	17	0	00	30.27	30.39						
18	BKN	150			10.00		75	69	71	82	11	16	29.76	29.86	18	SCT	250			10.00		49	27	40	43	0	00	30.27	30.38						
21	OVC	028			10.00		74	69	71	84	10	18	29.78	29.89	21	BKN	250			10.00		49	25	39	39	0	00	30.27	30.39						
24	OVC	026			10.00		72	69	70	90	5	18	29.76	29.87	24	FEW	250			10.00		41	33	38	73	3	23	30.29	30.40						
<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	OVC	012			10.00		72	69	70	90	7	18	29.72	29.83	03	FEW	250			10.00		37	31	35	79	0	00	30.27	30.38						
06	OVC	026			10.00		72	69	70	90	6	20	29.71	29.82	06	SCT	250			10.00		34	29	32	82	0	00	30.24	30.35						
09	OVC	024		0.75	TS+RA BR		66	65	65	97	9	22	29.78	29.88	09	FEW	250			10.00		46	38	42	74	0	00	30.27	30.39						
12	OVC	006		7.00	-RA		64	63	63	97	7	18	29.71	29.82	12	SCT	250			10.00		64	42	53	45	13	15	30.22	30.33						
15	OVC	047		10.00			66	63	64	90	5	18	29.65	29.76	15	SCT	250			10.00		68	48	57	49	11	18	30.11	30.23						
18	OVC	210		9.00			63	63	63	100	0	00	29.65	29.76	18	BKN	250			10.00		61	50	55	67	10	12	30.09	30.19						
21	BKN	230		4.00	BCFG		61	61	61	100	0	00	29.70	29.81	21	BKN	250			10.00		60	52	56	75	5	11	30.06	30.17						
24	VV	003		0.25	FG		60	60	60	100	0	00	29.73	29.84	24	BKN	048			10.00		60	54	57	81	0	00	30.02	30.12						
<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	VV	002		0.50	FG		58	58	58	100	0	00	29.73	29.84	03	BKN	250			10.00		64	56	59	75	0	00	29.96	30.07						
06	SCT	250		10.00			58	51	54	78	6	27	29.75	29.86	06	BKN	250			10.00		64	58	60	81	6	18	29.93	30.03						
09	SCT	250		10.00			59	45	52	60	10	29	29.81	29.92	09	OVC	060			10.00		67	61	63	81	6	18	29.94	30.05						
12	CLR	NC		10.00			66	34	51	31	11	31	29.81	29.92	12	BKN	250			10.00		74	61	66	64	9	22	29.90	30.01						
15	CLR	NC		10.00			69	31	51	24	11	30	29.75	29.86	15	OVC	050			10.00		75	59	65	58	8	21	29.80	29.91						
18	CLR	NC		10.00			57	40	49	53	0	00	29.78	29.89	18	BKN	130			10.00		72	60	65	66	8	21	29.80	29.90						
21	CLR	NC		10.00			49	42	46	77	0	00	29.81	29.92	21	BKN	130			10.00		70	64	66	81	7	21	29.81	29.91						
24	CLR	NC		10.00			47	41	44	80	3	16	29.82	29.93	24	BKN	250			10.00		68	65	66	90	9	21	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	CLR	NC			10.00		53	38	46	57	3	19	29.81	29.92	03	BKN	250			10.00		68	63	65	84	9	24	29.79	29.89						
06	CLR	NC			10.00		45	41	43	86	3	17	29.80	29.91	06	BKN	250			9.00		63	62	62	97	3	22	29.81	29.91						
09	CLR	NC			10.00		58	52	55	81	6	20	29.84	29.95	09	BKN	250			10.00		61	58	59	90	8	35	29.86	29.97						
12	CLR	NC			10.00		76	51	62	42	10	21	29.83	29.93	12	SCT	250			10.00		68	47	57	47	6	VR	29.83	29.94						
15	CLR	NC			10.00		80	51	63	37	11	17	29.76	29.86	15	CLR	NC			10.00		74	45	58	36	5	27	29.74	29.85						
18	FEW	250			10.00		74	50	60	43	8	17	29.74	29.85	18	BKN	250			10.00		63	49	55	60	0	00	29.69	29.80						
21	FEW	250			10.00		67	60	63	78	6	16	29.77	29.88	21	SCT	250			10.00		60	46	53	60	5	06	29.69	29.80						
24	CLR	NC			10.00		64	60	62	87	0	00	29.78	29.88	24	OVC	130			7.00		64	62	63	93	5	15	29.65	29.75						

# OBSERVATIONS AT 3-HOURLY INTERVALS

## HOUSTON, TX

### DECEMBER 2012

### KIAH

### WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)																																																																																																				
			Observation Time (LST)	Eff Cl'd 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>DEC 25</b>						<b>SUNSET: 1728</b>																																																																																																			
03	SCT	040				67	66	66	97	6	18	29.56	29.67	06	OVC	046				68	66	67	93	5	17	29.52	29.63	09	BKN	070				72	66	68	82	11	19	29.47	29.58	12	FEW	065				67	48	57	51	20	29	29.56	29.66	15	FEW	060				68	41	54	38	21	29	29.55	29.66	18	SCT	060				45	33	40	63	17	30	29.74	29.85	21	SCT	028				37	26	33	65	23	32	29.87	29.98	24	OVC	025				36	26	32	67	16	31	29.96	30.07
<b>SUNRISE: 0715</b>						<b>DEC 26</b>						<b>SUNSET: 1729</b>																																																																																																			
03	OVC	023				35	26	32	70	16	32	30.00	30.11	06	SCT	038				34	25	31	70	14	32	30.05	30.16	09	SCT	250				36	25	32	64	17	31	30.11	30.22	12	BKN	250				41	25	35	53	14	33	30.11	30.22	15	BKN	250				47	28	39	48	7	30	30.05	30.16	18	BKN	250				43	27	37	53	5	34	30.03	30.15	21	BKN	250				38	28	34	67	3	34	30.06	30.17	24	BKN	250				34	28	32	79	0	00	30.03	30.15
<b>SUNRISE: 0716</b>						<b>DEC 27</b>						<b>SUNSET: 1729</b>																																																																																																			
03	SCT	250				31	28	30	89	0	00	30.02	30.13	06	OVC	039				37	31	35	79	8	05	29.97	30.08	09	BKN	250				41	33	38	73	10	10	29.97	30.08	12	OVC	035				47	37	43	68	9	08	29.93	30.04	15	OVC	016				49	40	45	71	14	08	29.84	29.95	18	OVC	009				49	47	48	93	8	05	29.80	29.91	21	OVC	005				50	49	49	96	7	06	29.79	29.90	24	OVC	002				53	52	52	96	8	10	29.74	29.85
<b>SUNRISE: 0716</b>						<b>DEC 28</b>						<b>SUNSET: 1730</b>																																																																																																			
03	OVC	002				55	55	55	100	6	04	29.69	29.80	06	OVC	008				57	56	56	96	6	02	29.66	29.77	09	OVC	011				53	52	52	96	11	31	29.74	29.85	12	BKN	250				58	50	54	75	16	30	29.75	29.85	15	BKN	250				59	45	52	60	21	31	29.77	29.88	18	BKN	027				50	40	45	69	16	34	29.89	30.00	21	BKN	025				45	36	41	71	10	34	30.00	30.11	24	OVC	024				44	34	40	68	14	32	30.05	30.16
<b>SUNRISE: 0716</b>						<b>DEC 29</b>						<b>SUNSET: 1731</b>																																																																																																			
03	SCT	250				37	30	34	76	13	34	30.11	30.23	06	BKN	250				35	26	32	70	11	35	30.19	30.30	09	BKN	250				37	23	32	57	9	34	30.29	30.41	12	BKN	250				49	21	38	33	16	34	30.29	30.40	15	OVC	250				49	21	38	33	8	31	30.27	30.38	18	BKN	250				47	22	37	37	6	33	30.29	30.40	21	BKN	250				45	23	37	42	5	33	30.34	30.45	24	SCT	250				39	24	33	55	0	00	30.34	30.45
<b>SUNRISE: 0717</b>						<b>DEC 30</b>						<b>SUNSET: 1731</b>																																																																																																			
03	SCT	250				35	26	32	70	0	00	30.34	30.45	06	FEW	250				32	24	29	72	0	00	30.35	30.47	09	CLR	NC				39	26	34	60	10	08	30.37	30.49	12	OVC	170				45	25	37	46	8	15	30.37	30.47	15	BKN	250				50	35	43	57	9	13	30.27	30.38	18	BKN	250				47	37	43	68	9	11	30.19	30.31	21	OVC	075				47	39	43	74	11	11	30.19	30.30	24	BKN	070				46	41	44	83	10	09	30.14	30.26

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)																																																																																																																																																				
			Observation Time (LST)	Eff Cl'd Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL																																																																																																																																																	
<b>SUNRISE: 0717</b>						<b>DEC 31</b>						<b>SUNSET: 1732</b>																																																																																																																																																			
03	OVC	012				10.00						48	42	45	80	9	10	30.08	30.19	06	OVC	009				10.00						51	47	49	86	8	10	30.03	30.14	09	OVC	008				6.00	BR					54	51	52	90	10	12	30.00	30.11	12	OVC	008				0.75	-RA BR					58	56	57	93	6	11	29.97	30.08	15	OVC	017				1.50	BR					61	60	60	97	8	12	29.89	30.00	18	OVC	002				0.25	BR					63	63	63	100	7	14	29.85	29.96	21	VV	003				0.25	-RA FG					65	65	65	100	3	16	29.85	29.96	24	BKN	090				2.00	-RA BR					67	66	66	97	0	00	29.81	29.92

### 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.

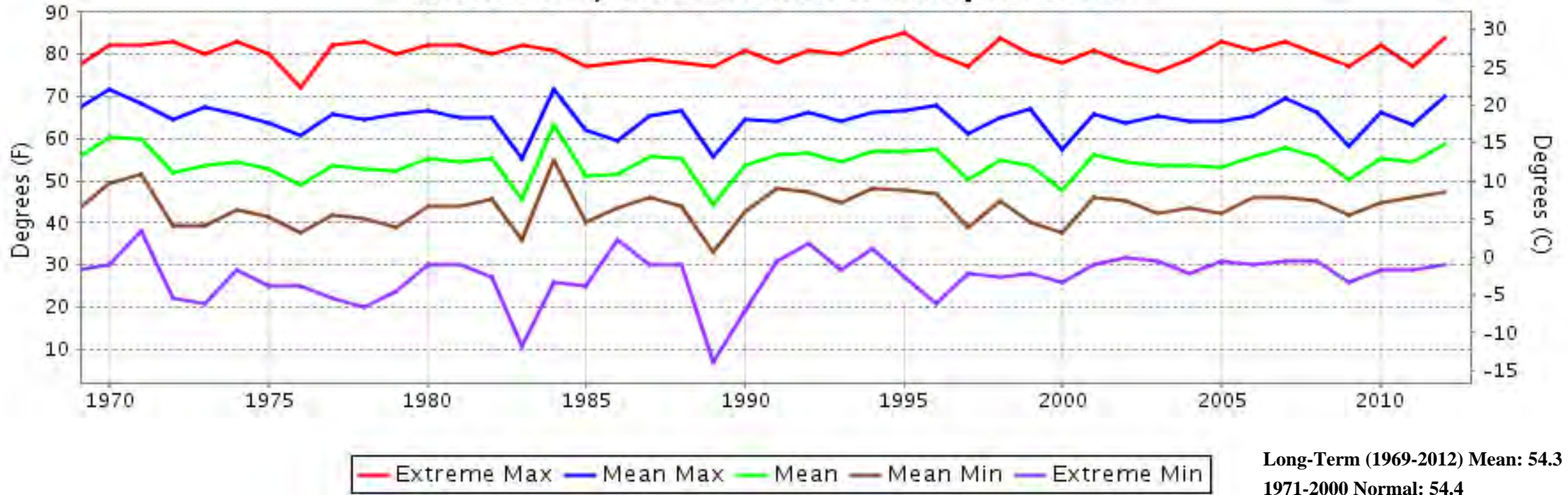
& = Original observation contained additional weather elements.

See page 3 for additional notes.

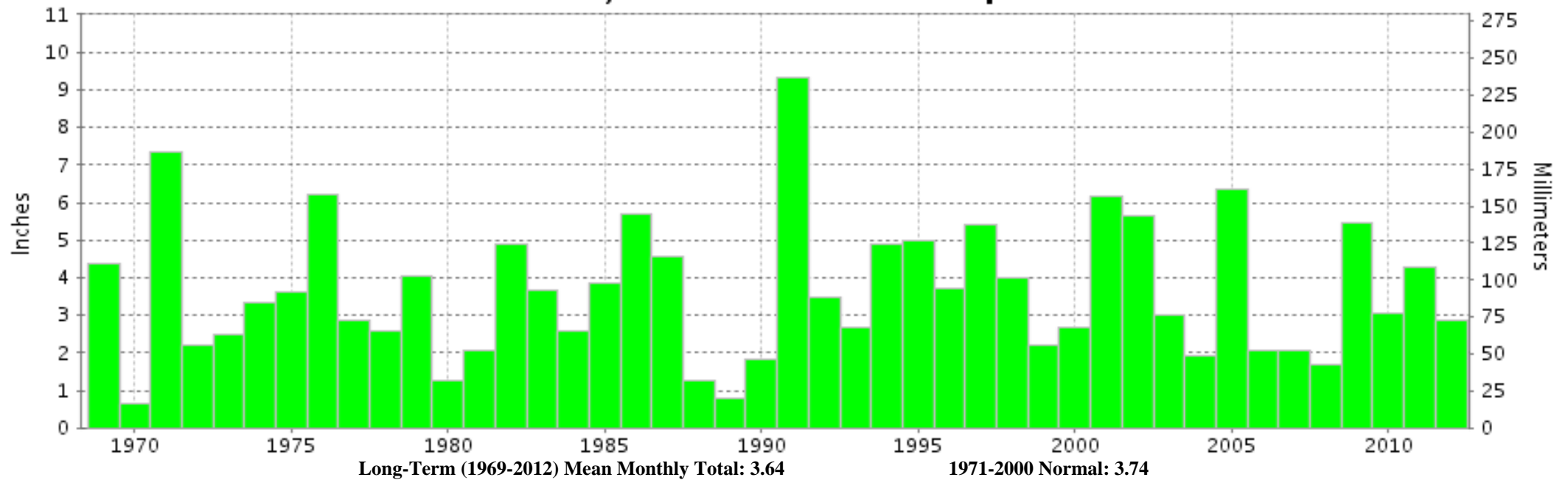
### SUMMARY BY HOUR

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			56	51	53	83	29.93	30.05	9.06	5	1	22
02			55	50	53	85	29.94	30.05	9.20	5	1	20
03			55	49	52	83	29.94	30.05	8.92	5	1	22
04			54	49	52	83	29.94	30.05	8.81	5	1	22
05			54	48	51	83	29.94	30.05	8.71	5	1	21
06			53	48	51	84	29.95	30.06	8.50	5	1	17
07			53	48	50	84	29.96	30.07	8.39	5	1	19
08			53	48	51	83	29.98	30.09	7.90	6	1	16
09			56	49	53	78	29.99	30.10	7.99	7	1	15
10			60	49	55	69	30.00	30.11	8.85	9	1	12
11			63	48	56	63	29.99	30.10	9.47	11	1	17
12			65	47	56	56	29.97	30.08	9.48	10	1	24
13			66	47	56	54	29.94	30.05	9.65	9	2	25
14			67	47	57	52	29.91	30.02	9.66	10	2	25
15			67	46	57	52	29.90	30.01	9.69	10	1	23
16			66	46	56	53	29.90	30.01	9.66	10	1	19
17			64	48	56	59	29.91	30.02	9.38	9	1	11
18			61	49	55	66	29.91	30.02	9.30	8	1	12
19			60	49	55	70	29.92	30.03	9.33	8	1	12
20			59	49	54	73	29.93	30.04	9.30	7	1	11
21			58	50	54	76	29.94	30.05	9.20	6	1	12
22			57	50	54	78	29.94	30.05	9.23	6	1	13
23			56	50	53	81	29.94	30.05	9.04	6	1	13
24			56	50	53	82	29.94	30.05	8.62	5	1	21

## HOUSTON, TX DECEMBER Temperatures



## HOUSTON, TX DECEMBER Precipitation







**DECEMBER 2012  
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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