DECEMBER 2010
LOCAL CLIMATOLOGICAL DATA
NOAA, National Climatic Data Center

HOUSTON, TX
G BUSH INTERCONTINENTAL AP/HOUSTON AP (KIAH)
Lat:29 ° 59'N Long: 95 ° 21'W Elev (Ground) 94 Feet
Time Zone : CENTRAL WBAN: 12960 ISSN#: 0198-5094

Date	Temperature °F						Deg Days BASE 65°		WEATHER	SNOW/ICE ON GND(IN)		PRECIPITATION ON GND(IN)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES							Date
										0600 LST	1200 LST	2400 LST	2400 LST						MAXIMUM 3-SEC		2-MIN		
	MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	HEATING	COOLING		DEPTH	WATER-EQUIV	SNOW-FALL	WATER EQUIV	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	SPEED	DIR	SPEED	DIR	
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	64	32	48	-9	27	39	17	0		0		0.0	0.00	30.20	30.33	2.5	21	3.2	17	30	12	21	01
02	71	37	54	-2	44	49	11	0		0		0.0	0.00	30.11	30.24	3.8	16	4.3	18	18	15	14	02
03	76	47	62	6	53	57	3	0	BR	0		0.0	0.00	30.01	30.15	4.2	18	4.6	20	13	16	13	03
04	80	58	69	13	57	62	0	4		0		0.0	0.00	29.96	30.07	2.7	27	6.7	23	27	16	25	04
05	62	42	52	-4	34	44	13	0		0		0.0	0.00	30.24	30.32	10.7	02	11.0	25	01	21	02	05
06	57	35	46	-9	30	39	19	0		0		0.0	0.00	30.29	30.41	1.9	02	2.7	15	01	10	36	06
07	62	33	48	-7	36	43	17	0	RA BR HZ	0		0.0	0.05	30.06	30.20	5.7	11	6.3	22	13	16	13	07
08	53	37	45	-10	38	43	20	0	RA BR	0		0.0	T	30.19	30.29	8.5	02	9.8	25	05	20	05	08
09	63	31	47	-8	40	45	18	0		0		0.0	0.00	30.08	30.21	5.0	16	5.2	21	15	16	16	09
10	75	43	59	4	52	56	6	0	MIFG BR	0		0.0	0.00	29.88	30.02	5.6	17	6.0	23	17	17	16	10
11	77	54	66	12	50	57	0	1		0		0.0	0.00	29.81	29.91	4.6	29	11.0	38	35	29	35	11
12	57	38	48	-6	20	38	17	0		0		0.0	0.00	30.17	30.26	13.6	33	14.1	38*	34	28	36	12
13	58	31	45	-9	21	36	20	0		0		0.0	0.00	30.15	30.27	0.4	18	4.1	18	15	15	14	13
14	71	37	54	0	44	50	11	0		0		0.0	0.00	29.93	30.08	6.7	16	7.6	26	17	18	17	14
15	77	52	65	11	55	60	0	0		0		0.0	0.00	29.67	29.82	8.7	19	9.0	37	19	21	21	15
16	72	57	65	12	53	58	0	0		0		0.0	0.00	29.73	29.84	3.8	31	8.0	22	23	15	34	16
17	60	47	54	1	41	48	11	0	RA	0		0.0	T	29.92	30.01	9.4	01	9.9	21	01	17	36	17
18	60	38	49	-4	32	42	16	0		0		0.0	0.00	29.97	30.09	4.9	01	5.6	16	02	13	03	18
19	62	37	50	-3	40	45	15	0		0		0.0	0.00	29.93	30.05	6.4	13	7.3	23	12	18	14	19
20	78	56	67	14	58	61	0	2		0		0.0	0.00	29.83	29.95	8.3	17	9.0	25	22	16	17	20
21	82*	67	75*	22	63	67	0	10		0		0.0	0.00	29.88	30.00	8.3	21	8.5	24	23	16	23	21
22	76	64	70	17	62	64	0	5	RA BR HZ	0		0.0	T	30.03	30.14	2.2	30	6.0	17	02	14	02	22
23	64	50	57	4			8	0		0		0.0	0.00	30.10				9.7	18	08	15	09	23
24	67	46	57	5	47	51	8	0	TSRA RA FG BR	0		0.0	1.03	29.96	30.09	5.4	08	12.1	32	34	25	34	24
25	46	37	42	-10	33	39	23	0	RA DZ BR	0		0.0	T	30.19	30.28	16.9	35	17.2	37	36	29*	35	25
26	50	30	40*	-12	27	34	25	0		0		0.0	0.00	30.24	30.36	4.6	33	5.5	17	31	13	35	26
27	53	29*	41	-11	33	39	24	0		0		0.0	0.00	30.19	30.32	9.0	11	9.2	22	12	20	14	27
28	64	48	56	4	50	53	9	0		0		0.0	0.00	30.03	30.17	10.0	12	10.4	22	14	18	14	28
29	64	56	60	8	56	57	5	0	TS TSRA RA BR	0		0.0	1.96	29.67	29.84	8.1	14	9.0	30	15	26	15	29
30	74	57	66	14	64	65	0	1	RA BR HZ	0		0.0	T	29.57	29.69	11.1	16	11.3	28	16	21	16	30
31	76	60	68	16	58	62	0	3	RA BR HZ	0		0.0	T	29.66	29.76	1.7	07	9.3	24	35	21	35	31
	66.2	44.7	55.5	¤	43.9	50.1	10.2	0.8	< MONTHLY AVERAGES | TOTALS >			0.0	3.04	29.99	30.11	1.0	11	8.2	< MONTHLY AVERAGES				
	1.6	1.9	1.8		<---------- DEPARTURE FROM NORMAL ---------->								-0.65	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									

DECEMBER 2010
HOUSTON, TX

DEGREE DAYS

	MONTHLY TOTAL	MONTHLY DEPARTURE	SEASON TO DATE TOTAL	SEASON TO DATE DEPARTURE
HEATING :	316	-51	479	-115
COOLING :	26	1	3417	524

GREATEST 24-HR PRECIPITATION : 1.96 **DATE :** 29
GREATEST 24-HR SNOWFALL : 0.0 **DATE :**
GREATEST SNOW DEPTH : 0 **DATE :**

SEA LEVEL PRESSURE		DATE	TIME
MAXIMUM :	30.53	06	1002
MIMIMUM :	29.62	30	1753

NUMBER OF -> DAYS WITH

MAXIMUM TEMP >= 90 : 0	MINIMUM TEMP <= 32 : 5	PRECIPITATION >= 0.01 INCH: 3
MAXIMUM TEMP <= 32 : 0	MINIMUM TEMP <= 0 : 0	PRECIPITATION >= 0.10 INCH: 2
THUNDERSTORMS : 2	HEAVY FOG : 0	SNOWFALL >= 1.0 INCH : 0

HOURLY PRECIPITATION
(WATER EQUIVALENT IN INCHES)

HOUSTON, TX (KIAH)
DECEMBER 2010

WBAN # 12960

Date	FOR HOUR (LST) ENDING AT												Date	FOR HOUR (LST) ENDING AT												Date	Sum of Hourly Data	2400 LST Water Equiv.
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			
01													01													01	0.00	0.00
02													02													02	0.00	0.00
03													03													03	0.00	0.00
04													04													04	0.00	0.00
05													05													05	0.00	0.00
06													06													06	0.00	0.00
07													07									T	T	0.02	0.03	07	0.05	0.05
08	T				T		T	T					08													08	T	T
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	0.00	0.00
17													17				T			T	T					17	T	T
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						T							22													22	T	T
23													23													23	0.00	0.00
24												T	24	T					T	0.56	0.31	0.10	0.06	T		24	1.03	1.03
25								T	T	T			25													25	T	T
26													26													26	0.00	0.00
27													27													27	0.00	0.00
28													28													28	0.00	0.00
29								0.01	T	0.10	0.26	0.20	29	0.14	0.06	0.11	0.56	0.51	T	0.01	T					29	1.96	1.96
30													30		T		T	T					T	T		30	T	T
31										T			31													31	T	T

*** 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)	0.25	0.36	0.41	0.45	0.59	0.70	0.80	0.97	1.05	1.08	1.09	1.19
Ending Date	24	24	24	24	24	24	29	29	29	29	29	29
Ending Time (Hr/Min)	1841	1846	1851	1856	1906	1913	1638	1644	1657	1657	1657	1657

Date and time are not entered for TRACE amounts.

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.

REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

*** = Extreme for the month (last occurence 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 1971-2000

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 2010

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
			SR-SS		MN-MN				
	TOTAL MINUTES	PERCENT POSSIBLE	Sky Cover	Satellite	Sky Cover	Satellite	MINIMUM	MAXIMUM	
01							10.00	10.00	
02							10.00	10.00	
03							4.00	10.00	
04							9.00	10.00	
05							10.00	10.00	
06							10.00	10.00	
07							6.00	10.00	
08							6.00	10.00	
09							8.00	10.00	
10							5.00	10.00	
11							9.00	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							8.00	10.00	
16							7.00	10.00	
17							10.00	10.00	
18							10.00	10.00	
19							10.00	10.00	
20							8.00	10.00	
21							7.00	10.00	
22							2.00	10.00	
23							8.00	10.00	
24							0.50	10.00	
25							3.00	10.00	
26							10.00	10.00	
27							9.00	10.00	
28							10.00	10.00	
29							1.00	10.00	
30							0.25	10.00	
31							2.50	10.00	
MONTHLY AVGS							7.20	10.00	

SUNSHINE (Minutes)

Total : 0 **Possible : 19079**
Percent Possible : 0

NUMBER OF DAYS WITH :

SKY CONDITION

Clear	Partly CLDY	Cloudy	Missing
	1	6	21

MINIMUM VISIBILTY (MILES)

<= .25	<= 3.0	>= 7.0
1	6	21

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX
DECEMBER 2010 KIAH WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE Observation Time (LST)	SATELLITE Eff Cld Amt Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG) STATION	PRESSURE (INCHES, HG) SEA LEVEL
						SUNRISE: 0660 DEC 01 SUNSET: 1721								
03	CLR	NC			10.00		34	28	32	79	0	00	30.26	30.37
06	CLR	NC			10.00		33	28	31	82	0	00	30.26	30.37
09	CLR	NC			10.00		46	32	40	58	0	00	30.29	30.41
12	CLR	NC			10.00		60	20	44	21	9	24	30.24	30.36
15	FEW	250			10.00		63	21	45	20	9	21	30.16	30.28
18	FEW	250			10.00		51	29	42	43	3	19	30.14	30.26
21	FEW	250			10.00		51	31	42	46	5	18	30.16	30.28
24	CLR	NC			10.00		43	33	39	68	0	00	30.16	30.28
						SUNRISE: 0700 DEC 02 SUNSET: 1721								
03	CLR	NC			10.00		41	34	38	76	0	00	30.14	30.26
06	CLR	NC			10.00		40	36	38	86	0	00	30.14	30.25
09	FEW	250			10.00		55	45	50	69	0	00	30.18	30.29
12	SCT	250			10.00		68	47	57	47	11	19	30.14	30.27
15	BKN	250			10.00		70	45	57	41	6	17	30.08	30.19
18	SCT	250			10.00		61	51	56	70	9	14	30.09	30.20
21	CLR	NC			10.00		58	51	54	78	3	16	30.11	30.22
24	CLR	NC			10.00		51	49	50	93	0	00	30.10	30.21
						SUNRISE: 0701 DEC 03 SUNSET: 1721								
03	CLR	NC			7.00		48	47	48	96	0	00	30.08	30.19
06	CLR	NC			8.00		49	48	48	96	0	00	30.08	30.19
09	BKN	250			10.00		61	57	59	87	0	00	30.11	30.22
12	BKN	250			10.00		72	56	63	57	9	19	30.06	30.18
15	BKN	250			10.00		75	51	61	43	7	21	29.98	30.09
18	BKN	250			10.00		69	55	61	61	8	16	29.98	30.08
21	CLR	NC			10.00		65	56	60	73	7	18	29.98	30.10
24	CLR	NC			10.00		64	56	59	75	7	19	29.96	30.07
						SUNRISE: 0702 DEC 04 SUNSET: 1721								
03	SCT	250			10.00		63	56	59	78	5	19	29.92	30.03
06	FEW	250			10.00		61	57	59	87	0	00	29.92	30.02
09	FEW	250			10.00		66	61	63	84	5	25	29.98	30.09
12	BKN	028			10.00		76	62	67	62	8	24	29.95	30.06
15	SCT	250			10.00		79	58	66	49	8	27	29.91	30.01
18	SCT	250			10.00		73	58	64	59	7	01	29.95	30.05
21	OVC	060			10.00		67	58	62	73	5	VR	29.98	30.10
24	SCT	250			10.00		62	47	54	58	11	01	30.08	30.19
						SUNRISE: 0703 DEC 05 SUNSET: 1722								
03	BKN	070			10.00		55	34	45	45	16	01	30.11	30.22
06	BKN	065			10.00		51	34	43	52	16	02	30.16	30.28
09	OVC	049			10.00		49	33	42	54	17	03	30.22	30.34
12	BKN	250			10.00		58	33	47	39	11	01	30.22	30.34
15	BKN	250			10.00		58	34	47	41	14	36	30.19	30.31
18	SCT	250			10.00		52	32	43	47	7	02	30.24	30.35
21	FEW	250			10.00		47	33	41	58	7	02	30.32	30.42
24	CLR	NC			10.00		42	33	38	71	3	34	30.34	30.45
						SUNRISE: 0703 DEC 06 SUNSET: 1722								
03	CLR	NC			10.00		38	31	35	76	3	35	30.32	30.45
06	CLR	NC			10.00		36	31	34	82	5	34	30.37	30.47
09	SCT	250			10.00		42	32	38	68	5	05	30.40	30.52
12	BKN	250			10.00		49	29	41	46	5	03	30.37	30.48
15	SCT	250			10.00		56	26	43	32	5	VR	30.27	30.38
18	SCT	250			10.00		50	28	41	43	0	00	30.24	30.35
21	FEW	250			10.00		41	31	37	68	0	00	30.22	30.35
24	FEW	250			10.00		38	32	36	79	0	00	30.22	30.33
						SUNRISE: 0704 DEC 07 SUNSET: 1722								
03	FEW	250			10.00		36	32	34	85	0	00	30.18	30.29
06	FEW	250			10.00		35	30	33	82	0	00	30.16	30.27
09	BKN	250			10.00		43	37	40	79	3	12	30.16	30.27
12	SCT	250			10.00		58	32	46	37	10	13	30.09	30.20
15	OVC	250			10.00		59	38	49	46	11	12	30.01	30.12
18	OVC	060			10.00		56	40	48	55	11	13	29.98	30.10
21	OVC	040			6.00	HZ	54	42	48	64	10	09	30.03	30.14
24	OVC	060			6.00	-RA BR	49	46	48	89	8	08	30.01	30.12
						SUNRISE: 0705 DEC 08 SUNSET: 1722								
03	OVC	028			8.00		48	45	47	89	11	08	30.02	30.13
06	OVC	033			7.00		45	41	43	86	16	04	30.11	30.22
09	OVC	070			10.00		46	41	44	83	11	03	30.19	30.31
12	BKN	055			10.00		50	38	44	64	15	35	30.22	30.33
15	OVC	035			10.00		50	36	44	59	13	35	30.19	30.32
18	OVC	031			10.00		48	36	43	63	3	01	30.22	30.33
21	OVC	029			10.00		47	36	42	66	5	02	30.24	30.35
24	CLR	NC			10.00		37	34	36	89	0	00	30.24	30.35
						SUNRISE: 0706 DEC 09 SUNSET: 1722								
03	CLR	NC			10.00		33	32	33	96	0	00	30.22	30.32
06	CLR	NC			9.00		33	32	33	96	0	00	30.19	30.30
09	FEW	250			10.00		44	39	42	83	6	15	30.19	30.30
12	SCT	250			10.00		57	40	49	53	14	16	30.14	30.26
15	SCT	250			10.00		62	42	52	48	10	17	30.05	30.16
18	SCT	250			10.00		59	44	51	58	7	17	30.01	30.12
21	SCT	039			10.00		54	46	50	75	5	15	30.01	30.12
24	FEW	040			10.00		47	45	46	93	3	18	29.98	30.10
						SUNRISE: 0706 DEC 10 SUNSET: 1722								
03	FEW	037			10.00		45	44	45	96	0	00	29.97	30.08
06	SCT	037			8.00	MIFG	47	46	47	96	0	00	29.97	30.08
09	SCT	250			10.00		58	55	56	90	0	00	29.97	30.09
12	BKN	250			10.00		72	55	62	55	10	18	29.93	30.04
15	BKN	250			10.00		72	54	62	53	11	18	29.86	29.96
18	BKN	250			10.00		69	57	62	66	7	16	29.85	29.96
21	BKN	049			10.00		65	58	61	78	10	16	29.83	29.93
24	FEW	035			10.00		64	59	61	84	3	18	29.81	29.92
						SUNRISE: 0707 DEC 11 SUNSET: 1722								
03	SCT	038			10.00		63	58	60	84	5	17	29.78	29.89
06	BKN	036			9.00		61	57	59	87	0	00	29.76	29.86
09	BKN	250			10.00		66	60	62	81	8	17	29.77	29.88
12	BKN	250			10.00		75	59	65	58	15	21	29.72	29.83
15	BKN	250			10.00		77	55	64	47	13	25	29.68	29.79
18	SCT	250			10.00		69	47	57	46	20	33	29.78	29.89
21	CLR	NC			10.00		60	41	51	50	13	33	29.92	30.03
24	CLR	NC			10.00		55	15	40	20	22	35	30.02	30.13
						SUNRISE: 0708 DEC 12 SUNSET: 1723								
03	CLR	NC			10.00		50	19	38	29	21	35	30.03	30.15
06	CLR	NC			10.00		45	19	35	35	11	33	30.13	30.24
09	FEW	250			10.00		46	20	36	36	18	32	30.22	30.33
12	SCT	250			10.00		53	19	40	26	16	32	30.19	30.29
15	SCT	250			10.00		56	15	41	20	17	33	30.13	30.24
18	FEW	250			10.00		50	14	37	24	11	34	30.18	30.29
21	CLR	NC			10.00		44	17	34	34	8	32	30.22	30.33
24	CLR	NC			10.00		39	18	32	43	7	30	30.24	30.35

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX
DECEMBER 2010 KIAH WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE Observation Time (LST)	SATELLITE Eff Cld Amt Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG) STATION	PRESSURE (INCHES, HG) SEA LEVEL
						SUNRISE: 0708 DEC 13 SUNSET: 1723								
03	CLR	NC			10.00		36	19	30	50	5	31	30.22	30.34
06	CLR	NC			10.00		33	20	29	59	0	00	30.22	30.33
09	CLR	NC			10.00		42	19	34	40	9	03	30.24	30.35
12	CLR	NC			10.00		51	17	38	26	0	00	30.19	30.31
15	CLR	NC			10.00		57	14	41	18	3	VR	30.11	30.23
18	CLR	NC			10.00		49	21	38	33	0	00	30.11	30.22
21	CLR	NC			10.00		45	28	38	51	6	16	30.11	30.22
24	CLR	NC			10.00		42	31	37	65	3	17	30.11	30.22
						SUNRISE: 0709 DEC 14 SUNSET: 1723								
03	CLR	NC			10.00		37	33	35	86	0	00	30.06	30.18
06	CLR	NC			10.00		43	38	41	83	6	11	30.05	30.16
09	SCT	150			10.00		52	41	47	66	9	13	30.05	30.16
12	BKN	040			10.00		68	48	57	49	14	18	30.01	30.12
15	SCT	050			10.00		71	47	58	43	20	18	29.90	30.01
18	SCT	250			10.00		65	50	57	59	11	18	29.86	29.97
21	FEW	250			10.00		62	53	57	73	7	18	29.85	29.96
24	FEW	032			10.00		61	54	57	78	7	18	29.81	29.92
						SUNRISE: 0710 DEC 15 SUNSET: 1724								
03	BKN	036			10.00		59	54	56	84	6	17	29.78	29.88
06	SCT	035			9.00		57	55	56	93	6	16	29.75	29.86
09	SCT	060			10.00		64	58	60	81	8	17	29.77	29.88
12	BKN	043			10.00		73	55	62	53	20	20	29.72	29.83
15	BKN	050			10.00		76	57	64	52	10	20	29.63	29.74
18	SCT	044			10.00		71	58	63	64	13	19	29.61	29.72
21	CLR	NC			10.00		67	59	62	76	15	18	29.61	29.72
24	BKN	032			10.00		66	59	62	78	6	20	29.63	29.74
						SUNRISE: 0710 DEC 16 SUNSET: 1724								
03	FEW	035			10.00		64	59	61	84	6	20	29.63	29.74
06	FEW	024			10.00		63	60	61	90	5	20	29.64	29.75
09	BKN	014			10.00		67	62	64	84	7	VR	29.72	29.83
12	OVC	030			7.00		70	61	64	73	10	25	29.73	29.83
15	OVC	050			10.00		66	51	58	59	10	33	29.72	29.83
18	OVC	037			10.00		62	46	54	56	9	34	29.77	29.88
21	OVC	033			10.00		60	41	51	50	8	35	29.83	29.94
24	BKN	055			10.00		57	42	50	57	10	02	29.84	29.95
						SUNRISE: 0711 DEC 17 SUNSET: 1724								
03	SCT	055			10.00		54	42	48	64	7	01	29.82	29.93
06	OVC	034			10.00		53	43	48	69	8	02	29.86	29.96
09	OVC	060			10.00		55	44	50	67	11	04	29.93	30.03
12	OVC	021			10.00		59	43	51	56	9	04	29.91	30.01
15	OVC	025			10.00		58	42	50	55	10	02	29.88	29.99
18	OVC	025			10.00		52	36	45	55	13	36	29.93	30.04
21	OVC	023			10.00		49	34	42	56	11	36	29.98	30.09
24	OVC	029			10.00		47	34	41	61	10	01	30.01	30.12
						SUNRISE: 0711 DEC 18 SUNSET: 1725								
03	OVC	042			10.00		46	34	41	63	7	35	29.98	30.11
06	OVC	025			10.00		47	34	41	61	8	01	30.00	30.11
09	OVC	029			10.00		48	32	41	54	8	04	30.03	30.15
12	CLR	NC			10.00		55	31	44	40	8	02	30.01	30.12
15	FEW	250			10.00		59	30	46	33	3	VR	29.94	30.05
18	SCT	250			10.00		49	31	41	50	0	00	29.94	30.05
21	CLR	NC			10.00		44	32	39	63	0	00	29.95	30.06
24	CLR	NC			10.00		41	32	37	70	0	00	29.96	30.07

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE Observation Time (LST)	SATELLITE Eff Cld Amt Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG) STATION	PRESSURE (INCHES, HG) SEA LEVEL
						SUNRISE: 0712 DEC 19 SUNSET: 1725								
03	CLR	NC			10.00		37	31	35	79	0	00	29.96	30.07
06	FEW	250			10.00		38	32	36	79	6	10	29.96	30.07
09	FEW	250			10.00		46	35	41	66	9	11	30.00	30.11
12	FEW	250			10.00		58	38	48	48	10	13	29.97	30.08
15	SCT	250			10.00		62	45	53	54	8	15	29.90	30.01
18	BKN	250			10.00		55	46	50	72	15	15	29.88	29.99
21	CLR	NC			10.00		52	48	50	86	7	12	29.88	29.99
24	BKN	038			10.00		56	51	53	83	7	15	29.87	29.98
						SUNRISE: 0712 DEC 20 SUNSET: 1726								
03	BKN	042			10.00		57	53	55	87	6	15	29.85	29.96
06	BKN	047			10.00		58	54	56	87	6	11	29.85	29.96
09	OVC	047			8.00		64	59	61	84	8	15	29.87	29.98
12	OVC	250			10.00		73	62	66	69	11	19	29.86	29.97
15	BKN	250			10.00		76	60	66	58	11	18	29.79	29.89
18	BKN	250			10.00		71	61	65	71	14	17	29.80	29.91
21	OVC	031			10.00		69	62	65	79	8	19	29.83	29.94
24	OVC	011			10.00		68	64	66	87	8	19	29.85	29.96
						SUNRISE: 0713 DEC 21 SUNSET: 1726								
03	OVC	038			10.00		69	65	66	87	6	21	29.86	29.97
06	OVC	036			10.00		69	65	66	87	8	22	29.86	29.97
09	OVC	029			8.00		70	65	67	84	9	21	29.92	30.03
12	BKN	025			10.00		76	64	68	67	9	23	29.91	30.01
15	FEW	035			10.00		81	62	69	53	14	23	29.85	29.96
18	SCT	250			10.00		76	62	67	62	6	19	29.88	29.99
21	CLR	NC			10.00		70	63	66	79	8	20	29.92	30.02
24	OVC	010			7.00		68	65	66	90	9	21	29.94	30.05
						SUNRISE: 0713 DEC 22 SUNSET: 1727								
03	OVC	018			9.00		69	65	66	87	9	23	29.95	30.06
06	OVC	022			6.00	BR	68	65	66	90	3	28	30.01	30.11
09	OVC	026			4.00	BR	68	66	67	93	3	22	30.05	30.16
12	OVC	033			5.00	HZ	72	65	68	79	3	21	30.05	30.16
15	BKN	040			10.00		75	63	67	66	3	VR	30.01	30.12
18	BKN	250			9.00		67	57	61	70	9	34	30.06	30.17
21	OVC	041			10.00		64	55	59	73	7	02	30.11	30.22
24	OVC	047			10.00		64	53	58	68	9	05	30.11	30.23
						SUNRISE: 0714 DEC 23 SUNSET: 1727								
03														
06														
09	OVC	050			10.00		56	43	50	62	11	07	30.18	30.28
12	OVC	055			10.00		58	40	49	51	11	07	30.16	30.26
15	BKN	250			10.00		63	42	52	46	10	07	30.06	30.16
18	BKN	250			10.00		61	42	51	50	9	11	30.03	30.15
21	SCT	250			10.00		52	40	46	64	9	08	30.06	30.17
24	BKN	060			10.00		50	39	45	66	8	10	30.03	30.15
						SUNRISE: 0714 DEC 24 SUNSET: 1728								
03	OVC	050			10.00		51	37	45	59	9	09	30.03	30.15
06	BKN	075			10.00		48	35	42	61	10	09	30.03	30.14
09	BKN	085			10.00		50	40	45	69	10	10	30.03	30.14
12	OVC	075			10.00	-RA	62	51	56	67	10	15	29.98	30.10
15	BKN	100			10.00		63	56	59	78	14	13	29.89	30.01
18	OVC	070			10.00	-RA	63	57	60	81	11	12	29.86	29.97
21	OVC	085			6.00	+RA BR	53	50	51	90	10	33	29.94	30.05
24	OVC	005			8.00		46	43	45	89	17	34	30.01	30.12

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX
DECEMBER 2010 KIAH WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE Observation Time (LST)	SATELLITE Eff Cld Amt Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG) STATION	PRESSURE (INCHES, HG) SEA LEVEL
						SUNRISE: 0715 DEC 25 SUNSET: 1728								
03	OVC	012			10.00		44	40	42	86	18	33	30.03	30.14
06	OVC	016			10.00		45	40	43	83	16	34	30.06	30.18
09	OVC	022			5.00	-DZ	42	37	40	83	17	33	30.14	30.26
12					10.00		43	33	39	68	14	34	30.19	30.31
15	OVC	031			10.00		43	30	38	60	23	35	30.19	30.30
18	OVC	033			10.00		41	28	36	60	24	35	30.22	30.34
21	OVC	035			10.00		40	27	35	60	14	35	30.27	30.39
24	SCT	035			10.00		37	26	33	65	8	33	30.29	30.40
						SUNRISE: 0715 DEC 26 SUNSET: 1729								
03	SCT	250			10.00		34	25	31	70	7	34	30.27	30.38
06	FEW	250			10.00		31	25	29	78	7	28	30.29	30.41
09	CLR	NC			10.00		36	27	33	70	9	33	30.32	30.44
12	FEW	250			10.00		44	26	37	49	9	36	30.27	30.39
15	FEW	250			10.00		49	26	40	41	14	31	30.22	30.34
18	CLR	NC			10.00		43	27	37	53	0	00	30.22	30.33
21	CLR	NC			10.00		36	28	33	73	0	00	30.22	30.33
24	CLR	NC			10.00		33	27	31	79	0	00	30.22	30.33
						SUNRISE: 0716 DEC 27 SUNSET: 1729								
03	CLR	NC			10.00		30	27	29	89	0	00	30.22	30.33
06	CLR	NC			10.00		30	26	29	85	0	00	30.22	30.34
09	SCT	250			10.00		39	33	37	79	10	10	30.24	30.36
12	BKN	250			10.00		49	35	43	59	15	12	30.24	30.36
15	BKN	040			10.00		51	36	44	57	15	12	30.16	30.29
18	OVC	026			10.00		48	36	43	63	16	12	30.16	30.28
21	OVC	020			10.00		47	38	43	71	10	11	30.18	30.29
24	OVC	055			10.00		48	41	45	77	10	11	30.14	30.26
						SUNRISE: 0716 DEC 28 SUNSET: 1730								
03	OVC	070			10.00		49	45	47	86	8	09	30.11	30.23
06	OVC	065			10.00		53	48	50	83	8	12	30.10	30.21
09	OVC	065			10.00		56	50	53	80	8	12	30.13	30.24
12	OVC	080			10.00		62	52	56	70	13	13	30.10	30.22
15	OVC	090			10.00		64	53	58	68	14	12	30.00	30.11
18	BKN	250			10.00		60	52	56	75	11	13	29.98	30.09
21	BKN	090			10.00		58	53	55	84	10	13	29.98	30.09
24	OVC	090			10.00		59	54	56	84	8	14	29.94	30.05
						SUNRISE: 0716 DEC 29 SUNSET: 1731								
03	OVC	090			10.00		59	54	56	84	8	14	29.87	29.98
06	OVC	090			10.00		64	56	59	75	10	16	29.81	29.92
09	OVC	110			10.00		63	58	60	84	14	17	29.80	29.91
12	OVC	090			4.00	-RA BR	61	60	60	97	0	00	29.72	29.83
15	OVC	040			3.00	TSRA BR	58	57	57	97	13	13	29.64	29.75
18	BKN	095			10.00		60	55	57	84	3	20	29.59	29.70
21	SCT	250			10.00		57	55	56	93	6	12	29.61	29.72
24	OVC	014			6.00	BR	57	56	56	96	5	12	29.61	29.72
						SUNRISE: 0717 DEC 30 SUNSET: 1731								
03	OVC	020			4.00	BR	62	60	61	93	5	14	29.60	29.71
06	OVC	013			0.25	BR	62	61	61	97	6	14	29.61	29.72
09	OVC	011			1.50	BR	66	65	65	97	9	16	29.63	29.74
12	BKN	037			8.00		73	65	68	76	18	16	29.59	29.70
15	OVC	055			10.00		74	65	68	74	14	16	29.52	29.63
18	BKN	250			9.00		71	66	68	84	14	16	29.51	29.62
21	OVC	019			9.00		71	66	68	84	11	16	29.53	29.64
24	OVC	046			9.00		71	66	68	84	13	17	29.57	29.68

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE Observation Time (LST)	SATELLITE Eff Cld Amt Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG) STATION	PRESSURE (INCHES, HG) SEA LEVEL
						SUNRISE: 0717 DEC 31 SUNSET: 1732								
03	OVC	033			9.00		70	66	67	87	14	15	29.58	29.69
06	OVC	018			8.00		69	66	67	90	10	14	29.59	29.70
09	OVC	020			2.50	BR	68	65	66	90	3	19	29.67	29.78
12	OVC	013			2.50	BR	70	67	68	90	5	12	29.67	29.77
15	OVC	250			8.00		76	64	68	67	6	01	29.60	29.71
18	BKN	049			10.00		67	48	57	51	10	36	29.65	29.76
21	OVC	043			10.00		66	44	54	45	9	36	29.72	29.82
24	OVC	034			10.00		60	33	47	36	10	36	29.76	29.87

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

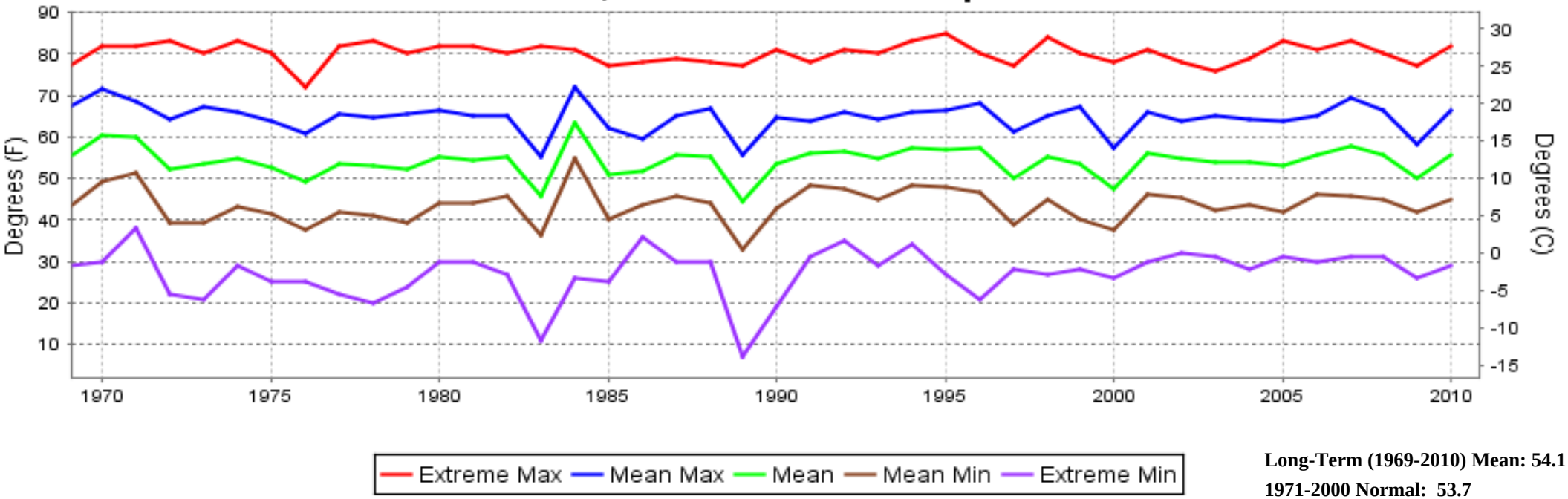
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No Ceiling detected.

& = Original observation containted additional weather elements.
See page 3 for additional notes.

SUMMARY BY HOUR

HOUR (LST)	AVERAGES CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG) STATION	PRESSURE (Inches, HG) SEA LEVEL	VISIBILITY (Miles)	WIND SPEED (MPH)	RESULTANT WIND (MPH) SPEED	RESULTANT WIND (MPH) DIRECTION
01			51	42	47	75	30.02	30.13	9.73	6	1	03
02			50	43	47	77	30.00	30.11	9.61	6	2	06
03			49	42	46	78	30.00	30.11	9.57	6	1	04
04			50	43	47	79	30.00	30.11	9.47	6	1	01
05			49	43	46	79	30.00	30.11	9.24	6	2	06
06			49	43	46	81	30.01	30.12	9.14	6	2	06
07			49	43	46	81	30.02	30.13	8.88	5	2	06
08			50	44	47	82	30.03	30.14	8.48	7	2	07
09			54	46	50	74	30.05	30.16	9.00	8	3	07
10			57	45	52	66	30.06	30.17	8.89	9	2	07
11			60	45	53	60	30.05	30.16	9.05	10	2	07
12			62	45	54	57	30.02	30.13	9.24	10	1	03
13			63	44	54	52	29.99	30.10	9.42	10	2	30
14			65	45	55	51	29.96	30.07	9.68	11	1	35
15			64	44	54	51	29.95	30.06	9.71	11	1	02
16			63	44	54	53	29.95	30.06	9.61	12	2	07
17			62	44	53	54	29.95	30.06	9.61	11	2	07
18			59	44	52	59	29.96	30.07	9.94	9	2	07
19			57	44	51	63	29.97	30.08	9.50	9	3	07
20			56	44	51	66	29.98	30.09	9.68	9	2	07
21			55	44	50	68	29.99	30.10	9.71	8	2	06
22			54	44	49	70	29.99	30.11	9.61	7	1	04
23			53	43	48	73	30.00	30.11	9.58	7	1	04
24			52	43	48	73	30.00	30.11	9.55	7	1	05

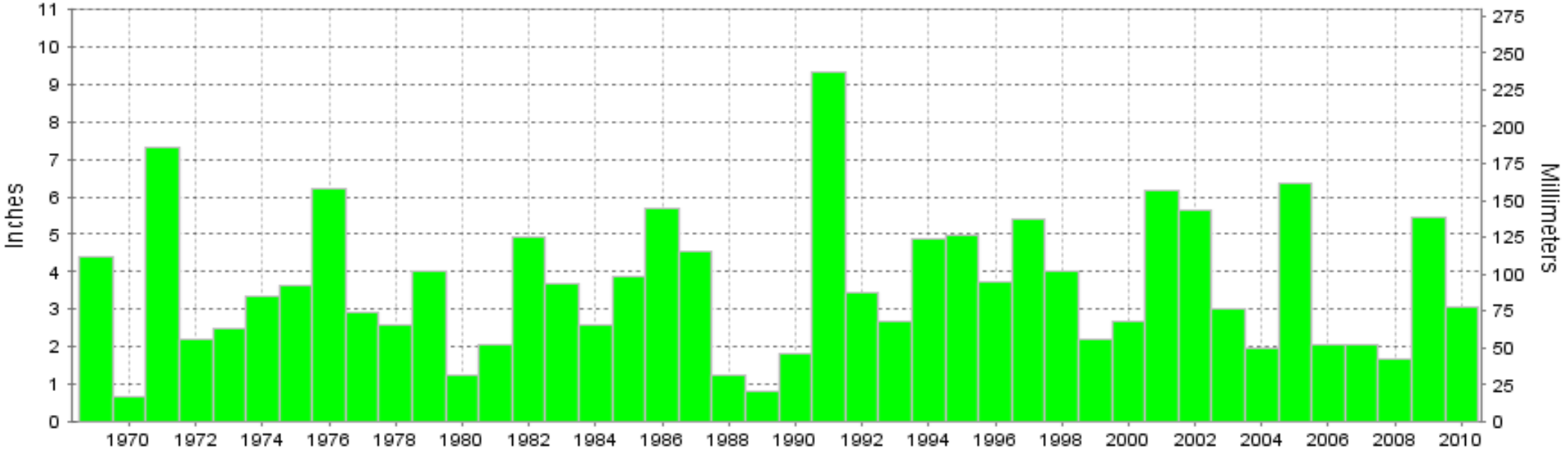
HOUSTON, TX DECEMBER Temperatures



Long-Term (1969-2010) Mean: 54.1

1971-2000 Normal: 53.7

HOUSTON, TX DECEMBER Precipitation



Long-Term (1969-2010) Mean Monthly Total: 3.64 **1971-2000 Normal: 3.69**

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