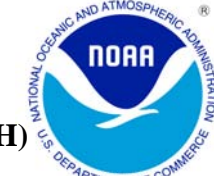




DECEMBER 2006 LOCAL CLIMATOLOGICAL DATA

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 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					
																			5-SEC		2-MIN			
01	57	31	44	-13	26	36	21	0		0		0.0	0.00	30.18	30.31	4.0	32	4.7	24	31	20	31	01	
02	57	36	47	-9	31	40	18	0		0		0.0	0.00	30.22	30.33	5.1	05	5.8	15	05	13	06	02	
03	55	38	47	-9	29	39	18	0		0		0.0	0.00	30.43	30.53	11.7	36	11.9	26	35	23	01	03	
04	56	32	44	-12	23	35	21	0		0		0.0	0.00	30.47	30.60	5.7	01	6.2	18	36	15	01	04	
05	58	30*	44	-12	28	38	21	0		0		0.0	0.00	30.26	30.41	3.8	13	4.8	14	14	13	13	05	
06	64	42	53	-2	50	53	12	0	MIFG	0		0.0	0.00	30.08	30.21	6.0	13	6.5	18	15	15	15	06	
07	60	46	53	-2	39	48	12	0		0		0.0	0.00	30.36	30.44	10.4	02	10.7	29	04	22	04	07	
08	49	33	41*	-14	16	33	24	0		0		0.0	0.00	30.50	30.61	7.8	03	9.1	22	04	18	05	08	
09	53	32	43	-12	23	35	22	0		0		0.0	0.00	30.33	30.47	5.6	11	6.5	14	10	13	10	09	
10	63	41	52	-3	46	50	13	0	RA DZ BR	0		0.0	0.15	30.12	30.27	7.9	10	9.0	21	14	17	14	10	
11	71	63	67	13	62	64	0	2	RA FG+ BR	0		0.0	0.36	30.03	30.16	7.5	15	8.0	17	14	16	13	11	
12	77	48	63	9	51	57	2	0	BR	0		0.0	0.00	30.06	30.16	3.1	29	3.7	17	31	15	33	12	
13	76	43	60	6	42	50	5	0		0		0.0	0.00	30.03	30.17	0.2	06	1.0	9	08	8	08	13	
14	74	45	60	6	54	56	5	0	FG+ FG BR HZ	0		0.0	0.00	29.93	30.06	3.6	13	4.6	15	17	13	16	14	
15	77	61	69	15	61	62	0	4	FG+ BR HZ	0		0.0	0.00	29.88	30.00	6.8	14	7.9	18	14	16	14	15	
16	81*	63	72	19	64	67	0	7	FG+ BR	0		0.0	0.00	29.88	30.00	9.3	16	9.2	21	14	17	14	16	
17	79	65	72*	19	66	67	0	7	BR HZ	0		0.0	0.00	29.98	30.08	9.7	14	10.1	21	12	17	13	17	
18	71	66	69	16	66	66	0	4	RA FG+ BR	0		0.0	0.19	30.06	30.17	7.7	09	8.1	16	10	14	09	18	
19	71	66	69	16	64	65	0	4	RA DZ BR HZ	0		0.0	0.02	30.03	30.16	9.9	10	10.2	21	11	17	11	19	
20	75	59	67	14	61	64	0	2	RA BR	0		0.0	0.01	29.85	29.97	3.8	12	10.0	24	25	22	14	20	
21	71	53	62	9	48	54	3	0	TS TSRA RA	0		0.0	0.29	29.87	29.99	5.0	03	6.4	23	23	18	22	21	
22	65	45	55	2	37	47	10	0		0		0.0	0.00	29.95	30.06	4.7	33	5.9	15	29	13	34	22	
23	65	41	53	0	39	46	12	0	RA	0		0.0	0.24	30.01	30.13	8.1	03	8.7	25	04	21	03	23	
24	50	47	49	-3	44	46	16	0	RA BR	0		0.0	0.70	29.83	29.99	10.3	34	11.7	26	01	21	01	24	
25	53	39	46	-6	38	44	19	0	RA	0		0.0	0.01	29.96	30.05	11.5	30	11.6	26	31	22	31	25	
26	58	34	46	-6	28	37	19	0		0		0.0	0.00	30.11	30.22	4.6	30	5.4	17	34	14	34	26	
27	63	33	48	-4	38	44	17	0		0		0.0	0.00	29.99	30.13	6.4	13	6.6	22	15	20	14	27	
28	70	46	58	6	54	57	7	0		0		0.0	0.00	29.85	29.98	12.0	12	12.2	28	11	23	13	28	
29	75	62	69	17	64	66	0	4	RA BR HZ	0		0.0	0.10	29.81	29.94	16.1	13	18.3	44*	12	36*	13	29	
30	64	48	56	4	51	54	9	0	RA MIFG	0		0.0	T	29.91	30.01	2.2	30	4.7	18	31	16	29	30	
31	64	45	55	3	41	48	10	0	BR	0		0.0	0.00	30.04	30.13	7.0	29	7.2	22	29	17	29	31	

65.2	46.2	55.7	Σ	44.6	50.6	10.2	1.1	< MONTHLY AVERAGES TOTALS >				0.0	2.07	30.06	30.18	2.4	08	8.0	< MONTHLY AVERAGES			
0.6	3.4	2.0		<----- DEPARTURE FROM NORMAL ----->				-1.62				SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3										

DEGREE DAYS				GREATEST 24-HR PRECIPITATION : 0.90 DATE : 23-24				SEA LEVEL PRESSURE				DATE TIME			
MONTHLY				SEASON TO DATE				GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.72 08 1016			
TOTAL DEPARTURE				TOTAL DEPARTURE				GREATEST SNOW DEPTH : 0 DATE :				MINIMUM : 29.84 29 2040			
HEATING :		316 -51		462 -132		NUMBER OF DAYS WITH		MAXIMUM TEMP >= 90 : 0		MINIMUM TEMP <= 32 : 4		PRECIPITATION >= 0.01 INCH : 10			
COOLING :		34 9		3286 393				MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH : 7			
								THUNDERSTORMS : 1		HEAVY FOG : 5		SNOWFALL >= 1.0 INCH : 0			

DECEMBER 2006
HOUSTON, TX

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX (KIAH)
DECEMBER 2006

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												07	0.00	0.00		
08													08												08	0.00	0.00		
09													09												09	0.00	0.00		
10													10	0.02	T	0.01	T	T	T	0.01	T	0.01	T	T	T	10	0.15	0.15	
11	0.01												11	0.01	0.02		T		0.05						11	0.36	0.36		
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												17	0.00	0.00		
18													18			T	0.01	0.05							18	0.19	0.19		
19	T	0.01											19											0.01	T	19	0.02	0.02	
20	T												20			T		0.01	T	T	T	T		T	T	20	0.01	0.01	
21													21													21	0.29	0.29	
22													22		T		0.23	T	T	0.06	T				22	0.00	0.00		
23													23					T		T				0.01	0.14	0.09	23	0.24	0.24
24	0.02	0.02	0.02										24	T	0.01	T	T	0.01	0.01	T	0.06	0.02	0.03	0.02	0.01	24	0.70	0.70	
25													25													25	0.01	0.01	
26													26													26	0.00	0.00	
27													27													27	0.00	0.00	
28													28													28	0.00	0.00	
29	T												29	0.01	T	0.02	T	T	T					T	0.01	T	29	0.10	0.10
30	T												30													30	T	T	
31													31													31	0.00	0.00	

* Indicates sum of Hourly and Daily disagree.

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	0.14	0.15	0.21	0.23	0.23	0.25	0.30	0.36	0.41	0.44	0.45	0.45
Ending Date	11	21	21	21	21	24	24	24	24	24	24	24
Ending Time (Hr/Min)	0733	1514	1519	1523	1523	0742	0742	0751	0754	0809	0809	0809

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 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 2006

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							10.00	10.00	
02							9.00	10.00	
03							10.00	10.00	
04							10.00	10.00	
05							10.00	10.00	
06							8.00	10.00	
07							7.00	10.00	
08							7.00	10.00	
09							10.00	10.00	
10							2.00	10.00	
11							0.00	10.00	
12							0.50	10.00	
13							1.00	10.00	
14							0.00	10.00	
15							0.00	10.00	
16							0.25	10.00	
17							0.00	10.00	
18							0.00	6.00	
19							0.25	10.00	
20							0.25	10.00	
21							6.00	10.00	
22							10.00	10.00	
23							6.00	10.00	
24							2.50	10.00	
25							10.00	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							10.00	10.00	
29							2.00	10.00	
30							10.00	10.00	
31							6.00	10.00	
MONTHLY AVGS							5.41	9.87	
SUNSHINE (Minutes)									
Total :					Possible :				
Percent Possible :									
NUMBER OF DAYS WITH :									
SKY CONDITION									
Clear		Partly CLDY			Cloudy			Missing	
MINIMUM VISIBILITY (MILES)									
<= .25			<= 3.0				>= 7.0		
8			13				15		

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX

DECEMBER 2006

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)			
			Observation Time (LST)	Eff Cl'd Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL
SUNRISE: 0714 DEC 25 SUNSET: 1727													
03	BKN	026				47	44	46	89	9	29	29.76	29.88
06	OVC	021				48	43	46	83	8	29	29.83	29.94
09	OVC	041			-RA	48	43	46	83	14	30	29.91	30.02
12	OVC	022				48	41	45	77	15	32	29.95	30.06
15	BKN	250				52	39	46	61	18	31	29.94	30.05
18	CLR	NC				49	35	43	59	8	30	29.98	30.10
21	CLR	NC				47	26	39	44	9	30	30.06	30.16
24	CLR	NC				39	26	34	60	6	27	30.09	30.20
SUNRISE: 0714 DEC 26 SUNSET: 1728													
03	CLR	NC				36	25	32	64	7	27	30.10	30.21
06	CLR	NC				34	25	31	70	7	28	30.11	30.23
09	FEW	250				40	26	35	57	10	31	30.18	30.29
12	FEW	250				52	25	41	35	6	VR	30.14	30.26
15	FEW	250				56	20	42	25	9	31	30.09	30.20
18	FEW	250				48	28	40	46	0	00	30.09	30.20
21	FEW	250				39	32	36	76	0	00	30.11	30.23
24	FEW	250				36	32	34	85	0	00	30.11	30.22
SUNRISE: 0714 DEC 27 SUNSET: 1728													
03	FEW	250				34	30	32	85	0	00	30.08	30.19
06	CLR	NC				35	31	33	85	0	00	30.09	30.20
09	CLR	NC				46	36	42	68	3	13	30.10	30.21
12	CLR	NC				60	36	49	41	13	15	30.06	30.17
15	FEW	250				62	42	52	48	14	13	29.96	30.07
18	FEW	250				56	45	50	67	11	13	29.95	30.06
21	CLR	NC				51	46	49	83	6	12	29.95	30.06
24	SCT	033				48	46	47	93	5	10	29.92	30.03
SUNRISE: 0715 DEC 28 SUNSET: 1729													
03	BKN	033				50	49	49	96	3	10	29.88	29.99
06	BKN	039				54	52	53	93	8	11	29.87	29.98
09	OVC	044				59	55	57	87	9	10	29.89	30.00
12	OVC	048				69	55	61	61	16	13	29.86	29.97
15	OVC	055				69	57	62	66	18	12	29.82	29.93
18	OVC	055				67	58	62	73	16	13	29.83	29.94
21	OVC	055				65	58	61	78	11	11	29.86	29.97
24	OVC	060				66	60	62	81	13	12	29.87	29.98
SUNRISE: 0715 DEC 29 SUNSET: 1730													
03	OVC	060				66	61	63	84	9	12	29.87	29.98
06	OVC	055				67	63	65	87	11	11	29.88	29.99
09	OVC	018				68	65	66	90	13	15	29.92	30.03
12	OVC	012			BR	71	67	68	87	23	12	29.86	29.97
15	OVC	032			-RA	73	67	69	82	31	14	29.79	29.90
18	OVC	015				71	67	68	87	25	15	29.76	29.86
21	OVC	030				74	69	71	84	21	17	29.74	29.85
24	OVC	027			-RA	63	57	60	81	15	30	29.77	29.88
SUNRISE: 0715 DEC 30 SUNSET: 1730													
03	BKN	110				58	53	55	84	6	31	29.81	29.91
06	OVC	095				59	50	54	72	7	29	29.86	29.96
09	OVC	070				58	51	54	78	7	10	29.90	30.01
12	OVC	075				63	49	55	60	3	VR	29.90	30.01
15	OVC	085				61	51	56	70	5	29	29.88	29.98
18	OVC	100				59	51	55	75	3	31	29.93	30.03
21	FEW	110				55	50	52	83	0	00	29.97	30.08
24	CLR	NC			MIFG	48	46	47	93	3	25	29.98	30.09

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 Cl'd Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL
SUNRISE: 0716 DEC 31 SUNSET: 1731													
03	FEW	120				48	46	47	93	5	26	29.98	30.09
06	CLR	NC				47	45	46	93	8	29	30.01	30.11
09	FEW	250				53	46	49	77	10	31	30.03	30.15
12	FEW	250				62	39	51	43	11	29	30.03	30.14
15	SCT	250				62	37	50	40	9	28	29.98	30.09
18	SCT	250				57	38	48	49	9	30	30.03	30.14
21	CLR	NC				51	38	45	61	5	31	30.10	30.21
24	CLR	NC				47	37	43	68	5	31	30.13	30.24

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

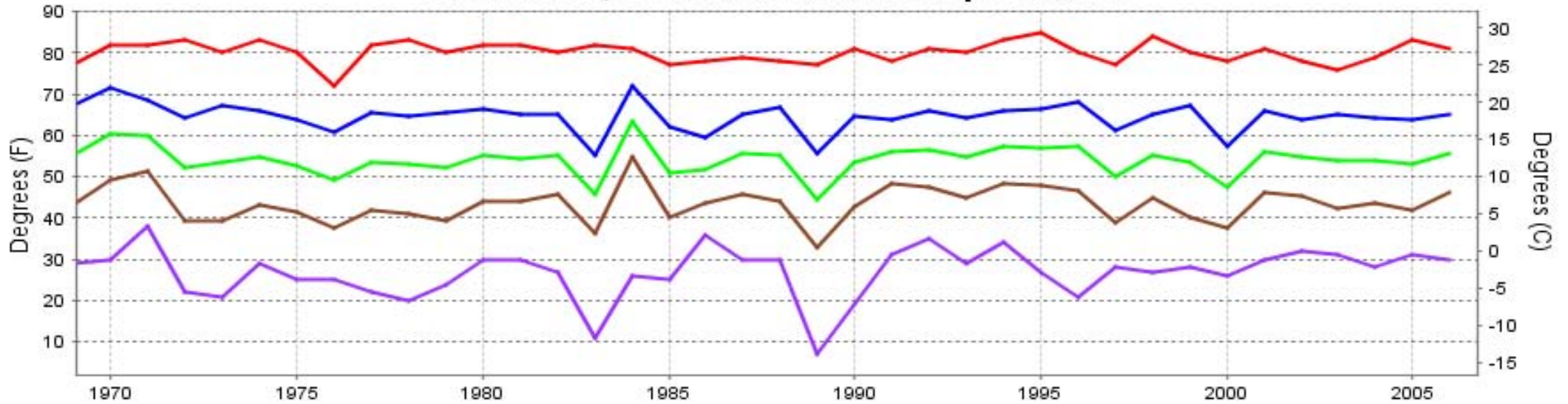
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No Ceiling detected.

& = 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			51	45	49	80	30.07	30.18	7.99	6	2	07
02			51	45	48	81	30.07	30.18	7.83	7	3	08
03			51	45	48	81	30.07	30.18	8.03	6	2	07
04			51	45	48	81	30.07	30.18	7.86	6	2	08
05			50	44	48	81	30.06	30.18	7.82	7	2	07
06			50	44	48	81	30.08	30.19	7.85	6	2	07
07			50	44	48	82	30.09	30.20	7.58	6	2	07
08			51	45	48	81	30.11	30.22	7.29	7	3	08
09			53	45	50	75	30.12	30.23	7.71	8	3	08
10			56	45	51	67	30.13	30.24	8.01	10	3	08
11			59	44	52	62	30.12	30.23	7.97	10	4	08
12			61	44	53	57	30.09	30.20	8.09	10	4	08
13			63	43	54	54	30.06	30.17	8.52	10	3	08
14			64	43	54	53	30.04	30.15	8.66	11	3	08
15			64	43	54	52	30.03	30.14	9.02	10	3	08
16			63	44	54	54	30.03	30.14	9.27	10	2	08
17			61	44	53	59	30.03	30.15	8.63	9	3	08
18			58	46	52	66	30.04	30.15	8.70	9	4	08
19			57	46	52	69	30.05	30.17	8.60	8	3	08
20			56	46	51	71	30.07	30.18	8.21	8	4	08
21			55	46	51	73	30.07	30.19	8.20	7	3	08
22			54	46	50	75	30.08	30.19	8.14	7	3	08
23			53	46	50	79	30.08	30.19	7.98	7	4	08
24			52	46	49	80	30.07	30.18	7.94	6	2	07

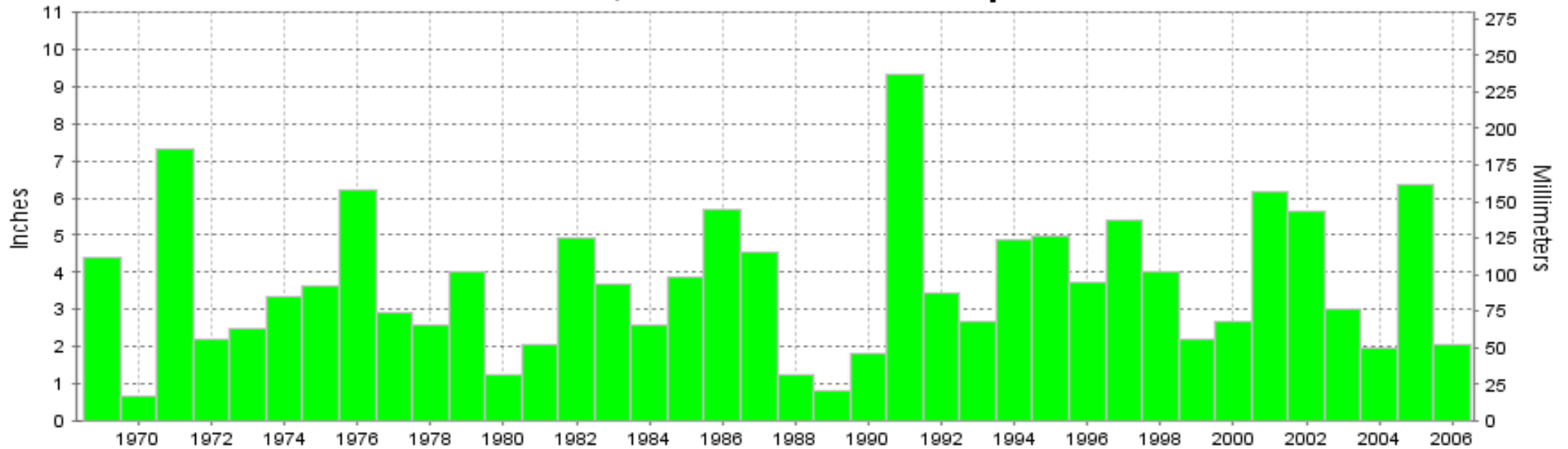
HOUSTON, TX DECEMBER Temperatures



— Extreme Max — Mean Max — Mean — Mean Min — Extreme Min

Long-Term (1969-2006) Mean: 54.1
1971-2000 Normal: 53.7

HOUSTON, TX DECEMBER Precipitation



Long-Term (1969-2006) Mean Monthly Total: 3.71

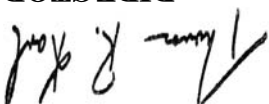
1971-2000 Normal: 3.69



DECEMBER 2006
HOUSTON, TX

LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

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