



MARCH 2009 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					
																			3-SEC		2-MIN			
01	61	35	48	-11	20	37	17	0		0		0.0	0.00	30.32	30.44	11.6	34	11.3	28	33	22	34	01	
02	66	34*	50	-9	25	40	15	0		0		0.0	0.00	30.19	30.32	0.5	13	2.2	14	30	10	29	02	
03	66	41	54	-6	39	46	11	0		0		0.0	0.00	30.14	30.27	9.7	11	10.3	26	16	20	13	03	
04	75	47	61	1	53	57	4	0		0		0.0	0.00	30.05	30.17	9.2	14	9.7	25	14	22	15	04	
05	82	61	72	12	58	63	0	7		0		0.0	0.00	30.04	30.15	11.7	17	11.9	28	16	21	18	05	
06	83	65	74	14	61	65	0	9	BR HZ	0		0.0	0.00	30.03	30.15	11.1	16	11.6	28	15	22	14	06	
07	81	68	75	15	64	67	0	10	RA	0		0.0	T	29.91	30.04	14.6	17	14.7	31	18	24	15	07	
08	83	66	75	14	64	67	0	10	BR	0		0.0	0.00	29.92	30.03	7.8	17	8.4	24	16	20	18	08	
09	83	67	75	14	64	68	0	10	RA BR HZ	0		0.0	T	29.91	30.03	12.3	16	12.6	29	14	24	13	09	
10	84*	71	78*	17	65	68	0	13		0		0.0	0.00	29.88	29.99	13.4	16	13.8	32	16	24	15	10	
11	82	54	68	7	61	63	0	3	RA BR	0		0.0	0.02	29.99	30.09	4.6	05	9.5	22	01	20	02	11	
12	54	44	49	-13	46	47	16	0	RA BR	0		0.0	1.05	30.06	30.18	11.5	01	12.1	23	02	20	01	12	
13	46	43	45	-17	43	44	20	0	RA BR	0		0.0	0.61	29.94	30.07	9.6	01	10.1	21	01	15	02	13	
14	48	42	45*	-17	43	45	20	0	RA BR	0		0.0	0.29	29.93	30.05	4.9	33	5.1	17	33	15	33	14	
15	54	48	51	-11	48	50	14	0	TS TSRA RA BR	0		0.0	0.45	29.98	30.08	0.7	02	0.8	14	04	9	01	15	
16	75	48	62	0	53	55	3	0	FG+ FG BR	0		0.0	0.00	30.08	30.18	1.1	13	1.7	12	13	10	12	16	
17	71	52	62	-1	54	56	3	0	RA FG+ BR HZ	0		0.0	T	30.08	30.20	2.7	13	3.3	13	10	10	10	17	
18	78	47	63	0	52	56	2	0	FG+ BR	0		0.0	0.00	29.99	30.12	3.0	14	3.6	18	13	14	13	18	
19	79	48	64	1	50	55	1	0	FG+ MIFG BR HZ	0		0.0	0.00	30.01	30.12	0.6	14	1.9	16	10	10	09	19	
20	81	51	66	3	53	58	0	1		0		0.0	0.00	30.06	30.17	4.2	11	5.7	17	09	15	13	20	
21	79	54	67	4	57	60	0	2	FG+ FG BR	0		0.0	0.00	30.09	30.20	6.2	13	7.0	22	12	18	12	21	
22	80	53	67	4	60	63	0	2	FG+ FG BR	0		0.0	0.00	30.04	30.14	10.9	14	11.1	26	12	24	14	22	
23	80	67	74	11	63	67	0	9		0		0.0	0.00	29.83	29.95	18.0	15	18.1	36	14	30*	15	23	
24	78	70	74	10	66	68	0	9	RA	0		0.0	0.01	29.74	29.86	13.1	16	13.2	25	16	22	15	24	
25	82	58	70	6	61	63	0	5	TSRA RA BR	0		0.0	0.86	29.70	29.83	5.8	10	11.2	33	33	29	33	25	
26	76	58	67	3	61	63	0	2	TS TSRA RA MIFG BR HZ	0		0.0	0.37	29.54	29.69	5.2	10	6.8	20	18	15	11	26	
27	80	49	65	0	61	64	0	0	TS GR RA FG+ BR HZ	0		0.0	T	29.49	29.58	4.1	33	7.4	36	32	28	32	27	
28	64	41	53	-12	34	44	12	0		0		0.0	0.00	29.75	29.83	11.7	29	11.9	30	29	23	29	28	
29	72	42	57	-8	35	47	8	0		0		0.0	0.00	29.86	29.98	2.5	18	5.8	16	14	14	14	29	
30	74	48	61	-4	57	60	4	0	RA BR	0		0.0	0.01	29.66	29.80	9.5	14	9.7	26	16	23	14	30	
31	71	55	63	-2	51	58	2	0	RA BR	0		0.0	0.02	29.75	29.84	5.5	33	8.8	36*	28	26	30	31	

73.2	52.5	62.9	☼	52.3	56.9	4.9	3.0	< MONTHLY AVERAGES TOTALS >				T	4.08	29.93	30.05	3.6	14	8.8	< MONTHLY AVERAGES			
-0.1	1.2	0.6		<----- DEPARTURE FROM NORMAL ----->								0.72	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									

DEGREE DAYS				GREATEST 24-HR PRECIPITATION : 1.40 DATE : 12-13				SEA LEVEL PRESSURE											
MONTHLY				GREATEST 24-HR SNOWFALL : T DATE : 27				MAXIMUM : 30.53 DATE 01 TIME 1053											
TOTAL DEPARTURE				GREATEST SNOW DEPTH : 0 DATE :				MINIMUM : 29.47 DATE 27 TIME 1453											
SEASON TO DATE				NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 0				MINIMUM TEMP <= 32 : 0				PRECIPITATION >= 0.01 INCH : 11			
HEATING : 152 -4 1128 -347				MAXIMUM TEMP <= 32 : 0				MINIMUM TEMP <= 0 : 0				PRECIPITATION >= 0.10 INCH : 7							
COOLING : 92 29 155 56				THUNDERSTORMS : 4				HEAVY FOG : 7				SNOWFALL >= 1.0 INCH : 0							

MARCH 2009
HOUSTON, TX

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX (KIAH)
MARCH 2009

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	T	T	
08													08												08	0.00	0.00	
09													09												09	T	T	
10													10												10	0.00	0.00	
11													11	T	0.02	T									11	0.02	0.02	
12													12	0.37	0.08	0.03	0.09	0.04	0.02						12	1.05	1.05	
13	0.26	0.07				T							13	T	T	T	0.01	T	T						13	0.61	0.61	
14	T												14	0.04	0.06	0.05	0.06	0.05	0.03						14	0.29	0.29	
15													15	0.10	0.02	T	0.20	T							15	0.45	0.45	
16													16												16	0.00	0.00	
17													17												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													22												22	0.00	0.00	
23													23												23	0.00	0.00	
24	T												24	T		0.01	T								24	0.01	0.01	
25				0.14	0.01	T		T		T			25							T	T	0.09	0.62		25	0.86	0.86	
26													26		T	0.24	0.13								26	0.37	0.37	
27													27	0.02	T		0.36	0.01							27	0.39	0.39	
28													28												28	0.00	0.00	
29													29												29	0.00	0.00	
30													30			T	T	0.01							30	0.01	0.01	
31				T		T		T		T	0.02		31												31	0.02	0.02	

* 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)	0.34	0.42	0.48	0.54	0.60	0.62	0.71	0.71	0.71	0.71	0.71	0.71
Ending Date	25	25	25	25	25	25	25	25	25	25	25	25
Ending Time (Hr/Min)	2033	2035	2035	2035	2040	2040	2040	2040	2040	2040	2040	2040

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 MARCH 2009

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.

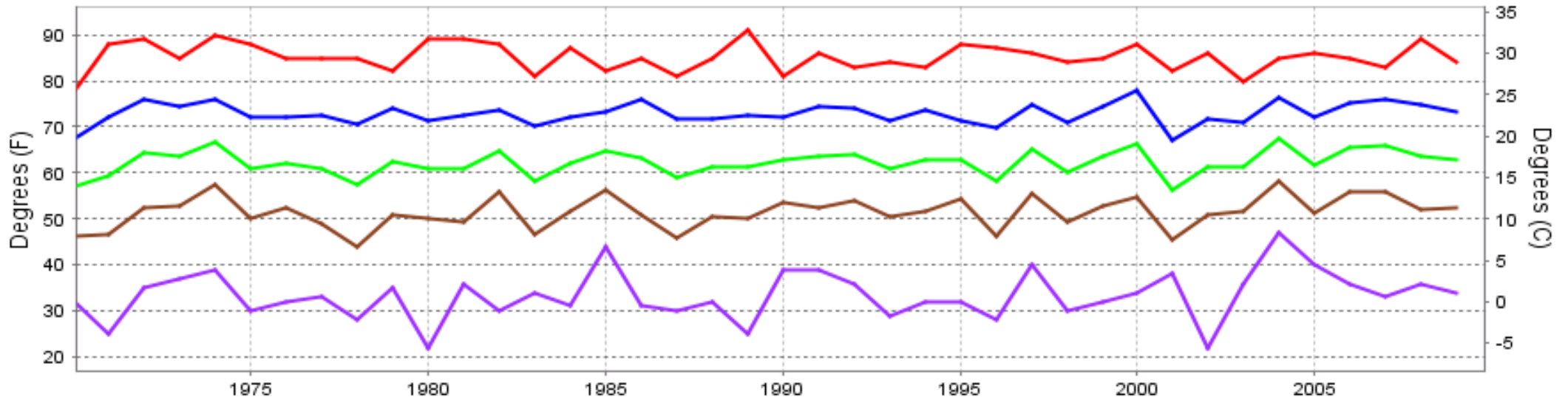
Dew Point is the temperature to which the air must be cooled to achieve 100% relative humidity. Wet Bulb is the temperature the air would have if cooled to saturation at constant pressure by evaporation of water into it.

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							10.00	10.00	
03							10.00	10.00	
04							9.00	10.00	
05							10.00	10.00	
06							2.50	10.00	
07							8.00	10.00	
08							5.00	10.00	
09							3.00	10.00	
10							7.00	10.00	
11							6.00	10.00	
12							1.00	10.00	
13							2.00	10.00	
14							4.00	10.00	
15							4.00	10.00	
16							0.12	10.00	
17							0.00	10.00	
18							0.00	10.00	
19							0.12	10.00	
20							9.00	10.00	
21							0.00	10.00	
22							0.25	10.00	
23							8.00	10.00	
24							2.00	10.00	
25							6.00	10.00	
26							3.00	10.00	
27							0.25	10.00	
28							7.00	10.00	
29							10.00	10.00	
30							2.00	10.00	
31							6.00	10.00	
MONTHLY AVGS							4.69	10.00	
SUNSHINE (Minutes)									
Total : 0					Possible : 22318				
Percent Possible : 0									
NUMBER OF DAYS WITH : SKY CONDITION									
Clear		Partly CLDY		Cloudy		Missing			
MINIMUM VISIBILITY (MILES)									
<= .25			<= 3.0			>= 7.0			
7			14			11			

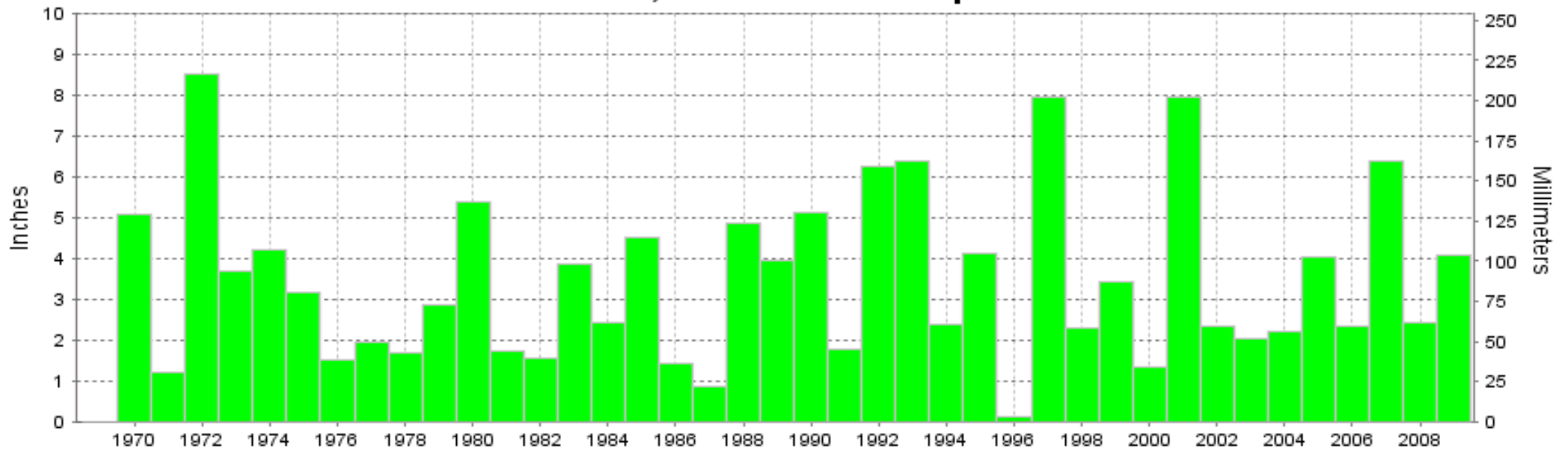
HOUSTON, TX MARCH Temperatures



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

Long-Term (1970-2009) Mean: 62.2
1971-2000 Normal: 62.3

HOUSTON, TX MARCH Precipitation



Long-Term (1970-2009) Mean Monthly Total: 3.41

1971-2000 Normal: 3.36



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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.

DIRECTOR

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