



# DECEMBER 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



DECEMBER 2009  
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			
									DEPTH 11	WATER- EQUIV 12	SNOW- FALL 13	WATER EQUIV 14			SPEED 17	DIR 18	AVERAGE SPEED 19	SPEED 20	DIR 21	SPEED 22	DIR 23			
01	52	48	50	-7	45	47	15	0	RA BR	0		0.0	1.38	29.65	29.80	8.1	03	10.4	32	06	28	06	01	
02	52	46	49	-7	40	45	16	0	BR	0		0.0	0.00	29.72	29.82	10.2	30	10.8	31	31	23	32	02	
03	56	39	48	-8	36	42	17	0		0		0.0	0.00	30.05	30.13	6.6	34	7.2	21	01	16	01	03	
04	46	31	39	-17	30	35	26	0	RA DZ SN FG+ BR	0		1.0	0.22	30.14	30.27	8.3	36	8.8	25	01	21	01	04	
05	49	26*	38*	-18	29	34	27	0		0		0.0	0.00	30.09	30.24	3.2	13	3.6	17	10	15	10	05	
06	59	36	48	-7	47	49	17	0	RA DZ BR	0		0.0	0.15	29.88	30.02	10.1	10	10.3	22	12	17	12	06	
07	59	55	57	2	55	55	8	0	RA FG+ BR	0		0.0	0.44	29.88	30.01	6.9	03	7.3	18	04	16	04	07	
08	77*	56	67	12	63	63	0	2	RA FG+ FG BR HZ	0		0.0	0.02	29.59	29.72	3.3	20	6.9	28	21	18	21	08	
09	63	39	51	-4	36	44	14	0	FG+ FG BR	0		0.0	0.00	29.84		9.3	35	9.6	29	36	24	35	09	
10	53	34	44	-11	28	37	21	0		0		0.0	0.00	30.08	30.17	8.6	03	9.1	17	04	15	05	10	
11	51	44	48	-6	34	41	17	0	TSRA RA BR	0		0.0	0.47	30.06	30.20	9.9	06	10.3	26	10	23	10	11	
12	56	46	51	-3	51	52	14	0	RA FG+ BR	0		0.0	0.71	29.92	30.05	2.9	06	5.2	21	09	18	09	12	
13	54	48	51	-3	50	51	14	0	FG+ FG BR	0		0.0	0.00	29.93	30.06	1.8	17	4.6	14	13	12	14	13	
14	63	53	58	4	58	58	7	0	RA FG+ FG BR	0		0.0	0.19	29.85	29.98	3.2	03	3.5	12	36	8	07	14	
15	63	48	56	2	50	52	9	0	RA FG+ BR	0		0.0	0.27	30.09	30.18	13.4	02	13.8	30	02	22	03	15	
16	56	43	50	-3	39	45	15	0	RA	0		0.0	T	30.19	30.30	9.3	03	9.6	21	04	16	04	16	
17	51	45	48	-5	43	45	17	0	RA BR	0		0.0	0.55	29.98	30.13	7.0	01	8.0	17	02	14	03	17	
18	66	41	54	1	42	47	11	0		0		0.0	0.00	29.88	30.01	6.2	32	6.5	17	31	14	31	18	
19	63	42	53	0	37	44	12	0		0		0.0	0.00	30.05	30.15	6.3	32	6.9	23	34	20	34	19	
20	60	34	47	-6	37	42	18	0		0		0.0	0.00	30.17	30.28	0.5	10	2.5	12	36	8	36	20	
21	68	36	52	-1	41	47	13	0	BR	0		0.0	0.00	30.06	30.19	5.5	16	5.8	20	13	16	14	21	
22	71	49	60	7	58	60	5	0	RA BR	0		0.0	0.03	29.80	29.95	9.1	15	9.3	30	16	23	16	22	
23	76	66	71*	18	64	66	0	6	RA	0		0.0	0.01	29.57	29.72	13.1	16	13.3	36	16	28	17	23	
24	72	37	55	3	41	46	10	0	TS TSRA RA BR SQ	0		0.0	0.15	29.64	29.71	14.5	28	17.2	46*	23	30*	31	24	
25	49	32	41	-11	22	34	24	0		0		0.0	0.00	29.97	30.06	6.0	31	6.5	32	29	21	30	25	
26	53	35	44	-8	34	41	21	0		0		0.0	0.00	29.98	30.09	2.3	07	2.9	13	11	10	09	26	
27	59	35	47	-5	29	39	18	0		0		0.0	0.00	30.13	30.23	5.1	32	5.7	20	30	15	32	27	
28	54	34	44	-8	29	37	21	0		0		0.0	0.00	30.31	30.42	7.1	35	7.4	25	34	16	36	28	
29	48	33	41	-11	35	39	24	0	RA BR	0		0.0	0.16	30.20	30.34	4.0	07	4.8	17	10	14	10	29	
30	54	43	49	-3	45	47	16	0	RA BR	0		0.0	0.69	29.96	30.10	3.0	34	5.8	15	01	12	31	30	
31	58	47	53	1	48	50	12	0	FG+ BR HZ	0		0.0	0.00	30.02	30.12	1.6	35	5.1	32	35	24	34	31	
										<b>&lt; MONTHLY AVERAGES   TOTALS &gt;</b>				1.0	5.44	29.99	30.11	2.8	01	7.7	<b>&lt; MONTHLY AVERAGES</b>			
										<b>&lt;-----DEPARTURE FROM NORMAL-----&gt;</b>				1.75	<b>SUNSHINE, CLOUD, &amp; VISIBILITY TABLES ON PAGE 3</b>									
<b>DEGREE DAYS</b>										<b>GREATEST 24-HR PRECIPITATION :</b> 1.38 <b>DATE :</b> 01				<b>SEA LEVEL PRESSURE</b>				<b>DATE TIME</b>						
<b>MONTHLY</b>										<b>GREATEST 24-HR SNOWFALL :</b> 1.0 <b>DATE :</b> 04				<b>MAXIMUM :</b> 30.52				<b>28 1053</b>						
<b>SEASON TO DATE</b>										<b>GREATEST SNOW DEPTH :</b> 0 <b>DATE :</b>				<b>MINIMUM :</b> 29.49				<b>24 0253</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> 3		<b>PRECIPITATION &gt;= 0.01 INCH:</b> 15						
<b>HEATING :</b> 459 92 599 5										<b>MAXIMUM TEMP &lt;= 32 :</b> 0		<b>MINIMUM TEMP &lt;= 0 :</b> 0		<b>PRECIPITATION &gt;= 0.10 INCH:</b> 12										
<b>COOLING :</b> 8 -17 3419 526										<b>THUNDERSTORMS :</b> 2		<b>HEAVY FOG :</b> 9		<b>SNOWFALL &gt;= 1.0 INCH :</b> 1										

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX (KIAH)  
DECEMBER 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					0.04	0.24	0.09	0.23	0.41	0.34	0.03	01	1.38	1.38	
02													02												02	0.00	0.00	
03													03												03	0.00	0.00	
04									T	T	T	T	04	0.10	0.05	0.02	0.05	T							04	0.22	0.22	
05													05												05	0.00	0.00	
06												T	06	T	T	0.01	0.04	0.04	0.01	T	0.01	0.01	0.02	0.01	T	06	0.15	0.15
07													07		T	0.07	0.03	0.07	0.14	0.04	0.01	T	0.07	0.01	T	07	0.44	0.44
08	T							0.01	0.01				08	T											08	0.02	0.02	
09													09												09	0.00	0.00	
10													10												10	0.00	0.00	
11													11								T	0.01	0.26	0.20	11	0.47	0.47	
12	0.26	0.40	0.05										12			T									12	0.71	0.71	
13													13												13	0.00	0.00	
14										0.02	0.01		14	T	T	T	0.01	0.01		T	0.01	0.12	0.01		14	0.19	0.19	
15	0.10	T	0.05	0.12	T			T					15												15	0.27	0.27	
16													16											T	16	T	T	
17	T	T	0.01	T	0.03	0.07	0.02	0.05	0.06	0.17	0.04	0.04	17	0.02	0.02	0.02	T		T					17	0.55	0.55		
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	T	0.01	T	0.01		T	0.01		T			22	0.03	0.03	
23								T	0.01	T			23									T		T	23	0.01	0.01	
24	T			0.04	0.11	T							24												24	0.15	0.15	
25													25												25	0.00	0.00	
26													26												26	0.00	0.00	
27													27												27	0.00	0.00	
28													28												28	0.00	0.00	
29													29	T	0.01	0.10	0.02	T		T		T	T	0.03	29	0.16	0.16	
30	0.02	0.07	0.05	T	0.07	0.01	0.35	0.09	0.01	T	T	0.02	30												30	0.69	0.69	
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.

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 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							1.00	10.00	
02							1.00	10.00	
03							10.00	10.00	
04							0.25	10.00	
05							9.00	10.00	
06							1.00	10.00	
07							0.12	10.00	
08							0.12	10.00	
09							0.12	10.00	
10							5.00	10.00	
11							4.00	10.00	
12							0.25	10.00	
13							0.12	3.00	
14							0.12	8.00	
15							0.25	10.00	
16							0.50	10.00	
17							2.00	10.00	
18							10.00	10.00	
19							10.00	10.00	
20							8.00	10.00	
21							6.00	10.00	
22							7.00	10.00	
23							10.00	10.00	
24							5.00	10.00	
25							8.00	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							10.00	10.00	
29							3.00	10.00	
30							0.50	10.00	
31							0.00	10.00	
MONTHLY AVGS							4.27	9.71	
<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			
9			16			11			



## OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX

DECEMBER 2009

KIAH

WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
			Observation Time (LST)	Eff Cl'd Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	SPEED (MPH)	DIRECTION Tens of Deg	STATION				SEA LEVEL	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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
																															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: 0708</b>						<b>DEC 13</b>						<b>SUNSET: 1723</b>						<b>SUNRISE: 0712</b>						<b>DEC 19</b>						<b>SUNSET: 1725</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
03	VV	001			0.25	BR	51	51	51	100	3	27	29.94	30.06	03	CLR	NC				10.00					45	38	42	77	3	28	29.96	30.07	06	VV	001			0.25	FG	49	49	49	100	5	29	29.96	30.07	09	VV	001			0.12	FG	48	48	48	100	3	27	30.01	30.12	12	VV	001			0.12	BR	51	50	50	96	3	17	30.00	30.11	15	OVC	005			1.50	BR	53	51	52	93	0	00	29.92	30.03	18	VV	003			0.50	BR	52	52	52	100	7	11	29.90	30.01	21	VV	003			0.50	FG	54	53	53	96	8	12	29.91	30.02	24	VV	002			0.50	FG	52	52	52	100	6	15	29.91	30.03	03	VV	001			0.25	FG	53	53	53	100	3	05	29.88	29.98	06	VV	001			0.25	FG	54	54	54	100	0	00	29.87	29.98	09	VV	002			0.12	FG	55	55	55	100	6	35	29.92	30.03	12	OVC	003			0.12	BR	60	59	59	97	5	36	29.89	30.00	15	OVC	003			0.12	BR	63	62	62	97	5	04	29.83	29.93	18	OVC	003			0.50	BR	63	61	62	93	5	03	29.84	29.95	21	OVC	007			8.00		62	61	61	97	6	05	29.87	29.98	24	VV	002			0.50	FG	62	62	62	100	3	05	29.87	29.98	03	VV	001			0.25	FG	53	53	53	100	3	05	29.88	29.98	06	VV	001			0.25	FG	54	54	54	100	0	00	29.87	29.98	09	VV	002			0.12	FG	55	55	55	100	6	35	29.92	30.03	12	OVC	003			0.12	BR	60	59	59	97	5	36	29.89	30.00	15	OVC	003			0.12	BR	63	62	62	97	5	04	29.83	29.93	18	OVC	003			0.50	BR	63	61	62	93	5	03	29.84	29.95	21	OVC	007			8.00		62	61	61	97	6	05	29.87	29.98	24	VV	002			0.50	FG	62	62	62	100	3	05	29.87	29.98	03	OVC	004			0.50	RA BR	63	62	62	97	6	36	29.87	29.98	06	OVC	005			3.00		62	61	61	97	17	01	29.90	30.01	09	OVC	020			7.00		56	53	54	90	18	01	30.03	30.14	12	OVC	018			8.00		51	48	49	90	15	01	30.10	30.21	15	OVC	085			10.00		51	46	49	83	18	01	30.09	30.20	18	OVC	041			10.00		52	46	49	80	14	02	30.16	30.28	21	OVC	250			10.00		49	43	46	80	18	02	30.22	30.34	24	OVC	250			10.00		48	40	44	74	11	02	30.24	30.35	03	OVC	250			10.00		47	39	43	74	14	02	30.24	30.35	06	OVC	050			10.00		45	37	41	74	15	02	30.24	30.35	09	OVC	024			10.00		44	36	41	74	13	03	30.27	30.39	12	OVC	075			10.00		48	36	43	63	6	03	30.24	30.35	15	OVC	080			10.00		53	37	46	55	6	07	30.16	30.27	18	BKN	250			10.00		54	39	47	57	0	00	30.16	30.27	21	BKN	250			10.00		53	40	47	62	7	05	30.16	30.28	24	OVC	046			10.00	-RA	51	39	45	64	9	04	30.14	30.26	03	OVC	100			10.00	-RA	47	41	44	80	9	02	30.11	30.22	06	OVC	060			7.00	-RA	46	43	45	89	6	03	30.09	30.20	09	OVC	046			5.00	-RA BR	45	43	44	93	3	04	30.10	30.21	12	OVC	050			2.00	-RA BR	47	44	46	89	6	02	30.03	30.15	15	OVC	037			7.00	-RA	48	46	47	93	9	35	29.94	30.05	18	OVC	028			10.00		47	44	46	89	11	35	29.95	30.06	21	OVC	048			10.00		47	43	45	86	6	01	29.93	30.04	24	SCT	049			10.00		46	43	45	89	6	33	29.89	30.00	03	SCT	120			10.00		45	42	44	89	6	34	29.89	30.00	06	SCT	130			10.00		42	40	41	93	5	33	29.89	30.00	09	CLR	NC			10.00		46	41	44	83	5	32	29.92	30.03	12	CLR	NC			10.00		59	38	49	46	10	32	29.89	30.00	15	FEW	250			10.00		66	44	54	45	7	34	29.83	29.94	18	FEW	250			10.00		61	47	54	60	6	29	29.86	29.97	21	CLR	NC			10.00		56	44	50	64	9	33	29.90	30.01	24	CLR	NC			10.00		51	38	45	61	6	32	29.93	30.04	03	OVC	027			10.00		53	41	44	83	5	32	29.92	30.03	06	OVC	070			10.00		54	47	50	77	11	28	29.53	29.64	09	BKN	100			10.00		53	46	49	77	9	26	29.50	29.61	12	BKN	100			10.00		57	42	50	57	18	27	29.51	29.62	15	OVC	043			10.00		49	34	42	56	21	27	29.57	29.68	18	OVC	040			10.00		41	28	36	60	18	29	29.69	29.80	21	OVC	029			10.00		37	26	33	65	21	30	29.81	29.92	24	CLR	NC			10.00		38	23	32	55	20	29	29.86	29.97

# OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX  
DECEMBER 2009

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	CLR	NC			10.00	36	21	31	55	18	31	29.90	30.01				
06	CLR	NC			10.00	33	17	28	52	13	33	29.96	30.06				
09	SCT	250			10.00	36	15	29	42	9	32	30.02	30.13				
12	FEW	250			10.00	44	14	34	30	6	32	30.01	30.12				
15	SCT	250			10.00	48	16	36	28	3	VR	29.95	30.06				
18	SCT	250			10.00	41	30	37	65	0	00	29.95	30.06				
21	FEW	250			10.00	36	29	33	76	3	21	29.98	30.10				
24	BKN	150			10.00	36	30	34	79	0	00	30.00	30.11				
<b>SUNRISE: 0715</b>						<b>DEC 26</b>						<b>SUNSET: 1729</b>					
03	BKN	250			10.00	36	30	34	79	0	00	29.98	30.09				
06	SCT	250			10.00	36	31	34	82	0	00	29.98	30.09				
09	BKN	250			10.00	43	32	38	65	3	04	30.02	30.13				
12	OVC	065			10.00	51	32	43	48	6	11	30.00	30.11				
15	OVC	039			10.00	52	36	45	55	6	05	29.94	30.05				
18	BKN	130			10.00	51	37	45	59	3	03	29.95	30.06				
21	OVC	026			10.00	50	40	45	69	0	00	30.02	30.13				
24	BKN	044			10.00	47	42	45	83	0	00	30.03	30.15				
<b>SUNRISE: 0716</b>						<b>DEC 27</b>						<b>SUNSET: 1729</b>					
03	CLR	NC			10.00	41	31	37	68	3	34	30.05	30.16				
06	CLR	NC			10.00	36	29	33	76	0	00	30.08	30.19				
09	CLR	NC			10.00	43	30	38	60	5	36	30.14	30.25				
12	FEW	250			10.00	55	23	42	29	10	29	30.14	30.25				
15	SCT	250			10.00	59	25	45	27	10	30	30.06	30.18				
18	FEW	250			10.00	51	30	42	45	7	31	30.11	30.22				
21	CLR	NC			10.00	48	31	41	52	5	35	30.16	30.28				
24	FEW	250			10.00	42	30	37	63	8	34	30.22	30.34				
<b>SUNRISE: 0716</b>						<b>DEC 28</b>						<b>SUNSET: 1730</b>					
03	FEW	250			10.00	38	29	34	70	3	31	30.27	30.39				
06	CLR	NC			10.00	36	28	33	73	8	35	30.30	30.42				
09	SCT	250			10.00	39	26	34	60	8	36	30.38	30.50				
12	FEW	250			10.00	49	26	40	41	11	01	30.37	30.48				
15	BKN	250			10.00	53	28	42	38	14	34	30.27	30.39				
18	FEW	250			10.00	47	29	40	50	5	33	30.29	30.40				
21	CLR	NC			10.00	44	30	38	58	5	36	30.29	30.41				
24	CLR	NC			10.00	39	29	35	67	3	31	30.30	30.42				
<b>SUNRISE: 0716</b>						<b>DEC 29</b>						<b>SUNSET: 1731</b>					
03	FEW	060			10.00	36	29	33	76	3	32	30.29	30.41				
06	BKN	090			10.00	37	32	35	82	0	00	30.29	30.41				
09	OVC	250			10.00	41	33	38	73	5	04	30.29	30.40				
12	OVC	070			10.00	47	31	40	54	7	11	30.27	30.38				
15	OVC	080			3.00	43	39	41	86	5	VR	30.21	30.32				
18	OVC	060			3.00	42	40	41	93	14	08	30.16	30.27				
21	OVC	048			10.00	43	40	42	89	8	07	30.14	30.27				
24	OVC	025			6.00	43	41	42	93	8	06	30.11	30.22				
<b>SUNRISE: 0717</b>						<b>DEC 30</b>						<b>SUNSET: 1731</b>					
03	OVC	017			7.00	43	41	42	93	9	04	30.03	30.15				
06	OVC	012			9.00	44	44	44	100	6	04	29.98	30.10				
09	OVC	014			1.00	46	46	46	100	6	35	30.00	30.11				
12	OVC	010			2.00	48	47	48	96	5	32	29.98	30.10				
15	OVC	013			5.00	53	49	51	86	6	26	29.92	30.03				
18	OVC	009			10.00	52	48	50	86	0	00	29.92	30.03				
21	OVC	007			6.00	50	46	48	86	5	19	29.95					
24	OVC	005			0.50	49	48	48	96	3	18	29.96	30.07				

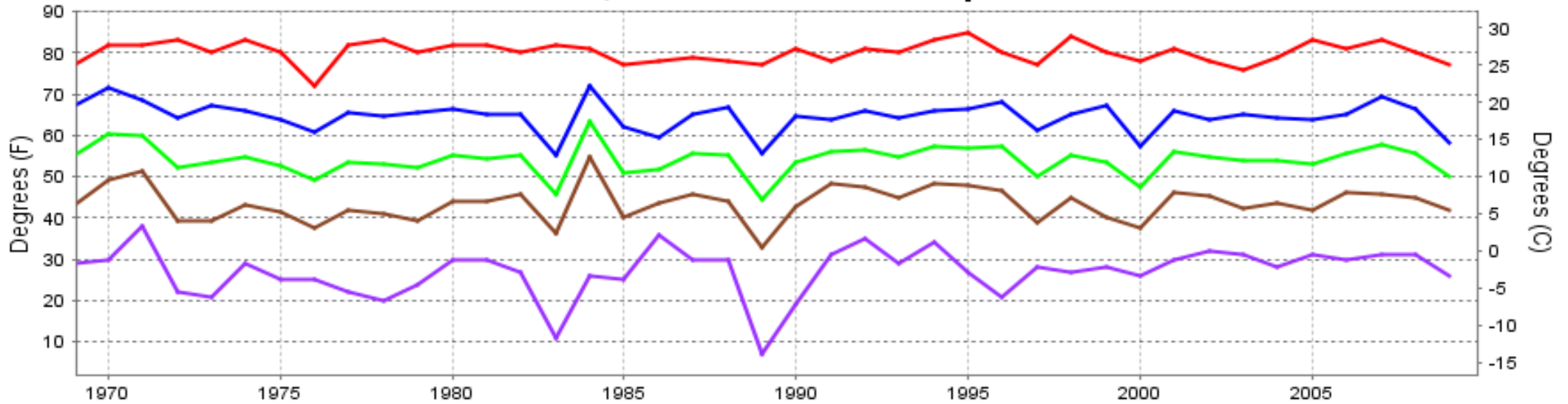
HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)						
			Observation Time (LST)	Eff Cl'd Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL			
<b>SUNRISE: 0717</b>						<b>DEC 31</b>						<b>SUNSET: 1732</b>					
03	OVC	002			0.00	48	48	48	100	0	00	29.94	30.05				
06	VV	002			0.00	48	47	48	96	0	00	29.94	30.05				
09	VV	002			0.00	48	48	48	100	0	00	29.98	30.10				
12	OVC	004			0.50	51	50	50	96	0	00	29.98	30.10				
15	FEW	012			7.00	57	51	54	80	3	14	29.92	30.03				
18	OVC	100			4.00	55	51	53	86	9	14	29.98	30.09				
21	OVC	065			10.00	53	47	50	80	15	33	30.13	30.24				
24	OVC	013			10.00	49	44	47	83	21	33	30.19	30.31				

**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			48	42	45	82	29.96	30.08	7.80	6	3	36
02			47	42	45	84	29.96	30.07	7.18	6	3	01
03			47	42	45	84	29.96	30.07	7.28	6	3	01
04			46	42	44	85	29.96	30.07	7.41	6	3	01
05			45	41	44	85	29.96	30.07	7.50	6	3	02
06			45	41	43	85	29.96	30.08	7.69	7	3	02
07			45	40	43	85	29.98	30.09	7.62	7	3	02
08			45	40	43	84	29.99	30.10	7.70	7	3	03
09			48	41	45	79	30.01	30.12	7.35	8	3	03
10			50	41	46	74	30.02	30.13	7.39	9	3	03
11			52	41	47	70	30.01	30.12	7.26	9	3	02
12			54	41	48	66	29.99	30.10	7.17	9	3	36
13			55	41	49	66	29.95	30.06	7.46	9	3	36
14			55	42	49	65	29.93	30.05	7.75	9	3	35
15			55	42	49	65	29.92	30.04	7.63	9	3	35
16			55	42	49	66	29.93	30.04	7.65	9	3	34
17			54	43	49	69	29.94	30.05	7.79	9	2	01
18			52	43	48	74	29.94	30.05	7.70	8	3	03
19			51	43	47	76	29.96	30.07	8.06	7	3	02
20			51	43	47	77	29.97	30.08	8.28	8	2	36
21			50	43	47	78	29.98	30.09	8.59	8	3	02
22			50	43	47	79	29.98	30.09	8.17	7	3	02
23			49	43	46	80	29.98	30.09	8.01	7	3	02
24			48	43	46	82	29.98	30.09	7.84	7	3	35

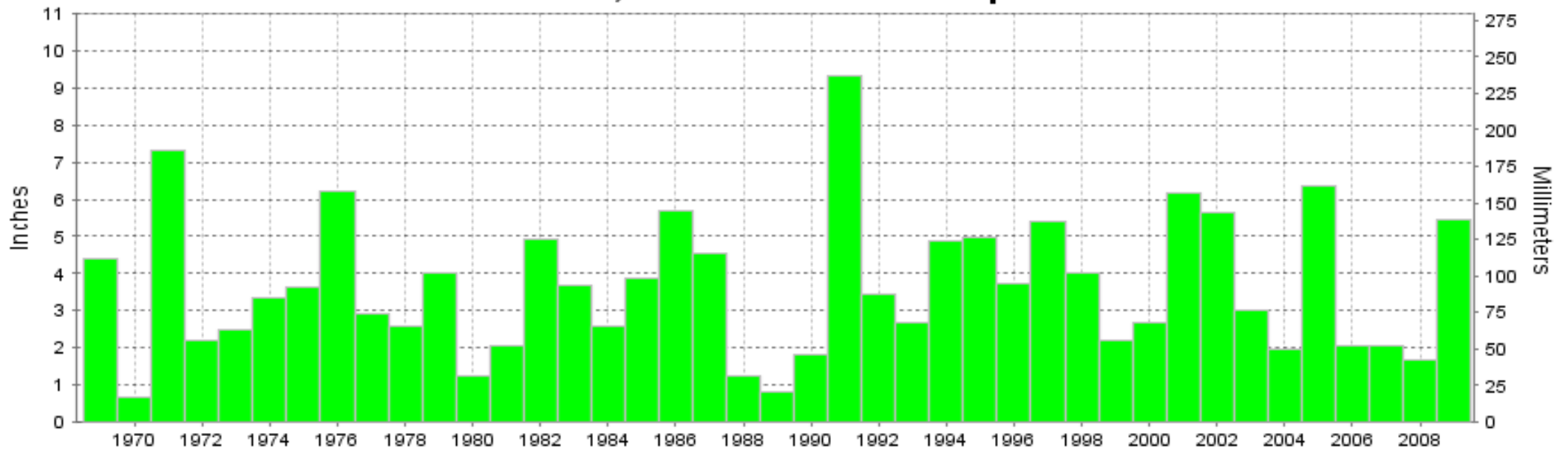
## HOUSTON, TX DECEMBER Temperatures



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

Long-Term (1969-2009) Mean: 54.1  
1971-2000 Normal: 53.7

## HOUSTON, TX DECEMBER Precipitation



Long-Term (1969-2009) Mean Monthly Total: 3.66

1971-2000 Normal: 3.69



DECEMBER 2009  
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.*

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