NOVEMBER 2008
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		MAXIMUM 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	81	56	69	4	59	62	0	4	BCFG BR	0		0.0	0.00	30.16	30.29	1.7	14	3.2	13	12	10	12	01
02	79	56	68	3	57	61	0	3	BR	0		0.0	0.00	30.08	30.20	4.5	13	5.1	16	13	13	14	02
03	78	53	66	1	55	59	0	1	FG+ BR	0		0.0	0.00	30.03	30.16	5.0	12	5.8	18	13	15	11	03
04	77	53	65	1	59	62	0	0	MIFG BR	0		0.0	0.00	29.95	30.08	5.5	12	6.6	18	15	15	14	04
05	84*	60	72	8	63	66	0	7	BR	0		0.0	0.00	29.80	29.94	8.2	17	8.3	25	16	21	16	05
06	79	66	73	9	62	65	0	8	RA MIFG BR	0		0.0	T	29.84	29.95	3.1	28	5.2	18	28	15	28	06
07	75	48	62	-1	44	53	3	0		0		0.0	0.00	29.96	30.06	4.3	02	5.1	21	05	18	02	07
08	77	43	60	-3	42	51	5	0		0		0.0	0.00	29.93	30.06	2.4	28	2.5	17	25	14	30	08
09	76	46	61	-2	48	54	4	0		0		0.0	0.00	29.93	30.05	6.6	12	7.4	21	13	16	14	09
10	73	60	67	4	61	63	0	2	RA BR	0		0.0	0.80	29.85	29.97	12.5	12	13.2	35	13	28	15	10
11	83	63	73*	11	66	67	0	8	TSRA RA BR	0		0.0	0.30	29.77	29.91	4.5	10	10.4	30	35	28	35	11
12	73	63	68	6	63	64	0	3	TS TSRA RA FG BR	0		0.0	1.73	29.79	29.90	1.6	01	4.3	25	33	20	33	12
13	67	60	64	3	61	62	1	0	FG+ BR	0		0.0	0.00	29.78	29.90	3.3	09	5.3	15	12	13	13	13
14	77	60	69	8	60	63	0	4	BR HZ	0		0.0	0.00	29.75	29.84	2.2	31	6.3	35	01	26	36	14
15	63	44	54	-7	33	44	11	0		0		0.0	0.00	30.20	30.28	12.7	33	13.1	38*	35	29*	35	15
16	61	36*	49*	-12	34	42	16	0		0		0.0	0.00	30.26	30.37	1.6	26	3.2	9	28	8	27	16
17	73	40	57	-3	39	47	8	0		0		0.0	0.00	30.22	30.35	1.4	24	2.1	10	29	8	26	17
18	70	45	58	-2	43	49	7	0		0		0.0	0.00	30.29	30.40	4.6	07	5.7	16	11	13	05	18
19	75	43	59	-1	50	54	6	0		0		0.0	0.00	30.14	30.28	4.4	15	6.0	14	13	12	13	19
20	78	49	64	4	52	57	1	0	MIFG BR	0		0.0	0.00	30.09	30.21	3.5	33	4.5	25	33	20	34	20
21	57	43	50	-9	32	42	15	0		0		0.0	0.00	30.35	30.45	10.6	04	11.4	30	04	23	04	21
22	66	41	54	-5	42	48	11	0		0		0.0	0.00	30.26	30.39	8.2	10	9.4	18	13	16	12	22
23	79	54	67	8	58	62	0	2	BR	0		0.0	0.00	30.06	30.20	8.5	15	9.2	24	14	21	15	23
24	79	52	66	7	56	61	0	1	RA MIFG	0		0.0	T	30.08	30.19	5.6	33	7.8	22	34	18	34	24
25	67	40	54	-4	36	45	11	0		0		0.0	0.00	30.14	30.27	0.8	02	3.4	13	05	10	05	25
26	75	41	58	0	52	55	7	0		0		0.0	0.00	29.98	30.12	3.2	16	3.6	15	17	12	17	26
27	80	58	69	11	63	65	0	4	RA BR	0		0.0	T	29.89	30.02	2.6	17	3.6	16	22	13	22	27
28	82	62	72	15	66	68	0	7	RA	0		0.0	0.06	29.72	29.87	3.6	24	6.6	23	22	16	22	28
29	65	52	59	2	56	57	6	0	RA	0		0.0	0.03	29.66	29.78	8.4	33	8.9	20	33	16	32	29
30	64	46	55	-2	36	46	10	0		0		0.0	0.00	29.72	29.82	11.5	29	12.1	35	30	26	30	30
	73.8	51.1	62.5	¤	51.6	56.5	4.1	1.8	< MONTHLY AVERAGES | TOTALS >			0.0	2.92	29.99	30.11	1.0	09	6.6	< MONTHLY AVERAGES				
	1.8	1.3	1.6		<---------- DEPARTURE FROM NORMAL ---------->								-1.27	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									

NOVEMBER 2008
HOUSTON, TX

DEGREE DAYS

	MONTHLY TOTAL	MONTHLY DEPARTURE	SEASON TO DATE TOTAL	SEASON TO DATE DEPARTURE
HEATING :	122	-67	157	-70
COOLING :	54	-11	3165	297

GREATEST 24-HR PRECIPITATION : 2.02 DATE : 11-12
GREATEST 24-HR SNOWFALL : 0.0 DATE :
GREATEST SNOW DEPTH : 0 DATE :

SEA LEVEL PRESSURE		DATE	TIME
MAXIMUM :	30.53	21	1037
MIMIMUM :	29.70	29	1353

NUMBER OF -> DAYS WITH

MAXIMUM TEMP >= 90 :	0	MINIMUM TEMP <= 32 :	0
MAXIMUM TEMP <= 32 :	0	MINIMUM TEMP <= 0 :	0
THUNDERSTORMS :	2	HEAVY FOG :	2

PRECIPITATION >= 0.01 INCH:	5
PRECIPITATION >= 0.10 INCH:	3
SNOWFALL >= 1.0 INCH :	0

HOURLY PRECIPITATION
(WATER EQUIVALENT IN INCHES)

HOUSTON, TX (KIAH)
NOVEMBER 2008

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												T	06	T												06	T	T
07													07													07	0.00	0.00
08													08													08	0.00	0.00
09													09													09	0.00	0.00
10									0.04	0.01	T	T	10	T	T	T	0.06	0.14	0.14	0.16	0.01	0.08	0.15	0.01	T	10	0.80	0.80
11	0.01	T	T	T					0.02	0.01	T		11			T	0.05	0.05	T	T	T	0.01	T	0.02	0.13	11	0.30	0.30
12	1.17	0.51	0.04	0.01							T	T	12													12	1.73	1.73
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													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	T			24													24	T	T
25													25													25	0.00	0.00
26													26													26	0.00	0.00
27													27									T	T			27	T	T
28											0.01	T	28			T	T	T	T			T		T	0.05	28	0.06	0.06
29		T											29					T	T	0.03						29	0.03	0.03
30													30													30	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)	0.46	0.66	0.74	0.86	0.96	1.03	1.22	1.47	1.63	1.76	1.80	1.83
Ending Date	12	12	12	12	12	12	12	12	12	12	12	12
Ending Time (Hr/Min)	0018	0021	0021	0021	0021	0047	0052	0112	0141	0151	0221	0208

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
NOVEMBER 2008

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							1.00	10.00	
02							3.00	10.00	
03							3.00	10.00	
04							4.00	10.00	
05							6.00	10.00	
06							4.00	10.00	
07							10.00	10.00	
08							8.00	10.00	
09							7.00	10.00	
10							2.00	10.00	
11							1.00	10.00	
12							0.50	10.00	
13							0.12	10.00	
14							0.50	10.00	
15							6.00	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							10.00	10.00	
19							8.00	10.00	
20							3.00	10.00	
21							8.00	10.00	
22							9.00	10.00	
23							5.00	10.00	
24							8.00	10.00	
25							10.00	10.00	
26							10.00	10.00	
27							0.75	10.00	
28							7.00	10.00	
29							2.00	10.00	
30							10.00	10.00	
MONTHLY AVGS							5.56	10.00	

SUNSHINE (Minutes)

Total : 0 **Possible : 19173**
Percent Possible : 0

NUMBER OF DAYS WITH :

SKY CONDITION

Clear	Partly CLDY	Cloudy	Missing

MINIMUM VISIBILTY (MILES)

<= .25	<= 3.0	>= 7.0
1	11	14

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX
NOVEMBER 2008 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: 0635 NOV 01 SUNSET: 1735														
03	FEW	018			1.50	BR	57	57	57	100	0	00	30.22	30.32
06	CLR	NC			8.00		57	57	57	100	0	00	30.21	30.32
09	BKN	085			10.00		67	63	65	87	5	13	30.24	30.36
12	SCT	037			10.00		76	59	66	56	3	28	30.22	30.32
15	SCT	047			10.00		79	58	66	49	3	VR	30.13	30.24
18	SCT	250			10.00		73	60	65	64	9	11	30.13	30.24
21	CLR	NC			10.00		66	60	62	81	7	17	30.14	30.26
24	CLR	NC			10.00		60	59	59	97	0	00	30.14	30.25
SUNRISE: 0636 NOV 02 SUNSET: 1734														
03	CLR	NC			7.00		57	56	56	96	0	00	30.11	30.22
06	CLR	NC			9.00		57	56	56	96	0	00	30.11	30.22
09	FEW	250			10.00		67	62	64	84	6	10	30.14	30.25
12	FEW	040			10.00		78	58	66	50	6	13	30.11	30.22
15	FEW	045			10.00		78	55	64	45	11	12	30.03	30.15
18	FEW	250			10.00		69	56	61	63	11	13	30.05	30.16
21	CLR	NC			10.00		63	58	60	84	6	14	30.08	30.19
24	FEW	250			6.00	BR	61	58	59	90	5	17	30.06	30.18
SUNRISE: 0637 NOV 03 SUNSET: 1733														
03	FEW	001			3.00	BR	54	53	53	96	0	00	30.06	30.17
06	CLR	NC			4.00	BR	54	54	54	100	3	01	30.06	30.17
09	CLR	NC			10.00		65	59	61	81	5	10	30.09	30.20
12	FEW	042			10.00		76	57	65	52	10	15	30.06	30.17
15	FEW	050			10.00		77	55	64	47	11	11	30.00	
18	FEW	250			10.00		68	53	59	59	10	13	30.01	30.12
21	CLR	NC			10.00		62	57	59	84	8	12	30.03	30.14
24	CLR	NC			7.00		55	54	54	96	0	00	30.03	30.13
SUNRISE: 0638 NOV 04 SUNSET: 1732														
03	CLR	NC			8.00	MIFG	54	54	54	100	0	00	30.00	
06	FEW	100			7.00		54	53	53	96	3	07	30.01	30.11
09	BKN	250			10.00		65	59	61	81	6	07	30.03	30.14
12	BKN	085			10.00		77	62	68	60	11	14	30.00	30.11
15	BKN	090			10.00		76	61	67	60	11	12	29.93	30.04
18	SCT	250			10.00		70	62	65	76	8	16	29.93	30.04
21	FEW	080			9.00		66	64	65	93	7	14	29.93	30.04
24	FEW	011			5.00	BR	62	62	62	100	0	00	29.91	30.01
SUNRISE: 0638 NOV 05 SUNSET: 1732														
03	FEW	080			8.00		64	63	63	97	3	16	29.87	29.98
06	FEW	060			8.00		62	61	61	97	0	00	29.86	29.96
09	SCT	080			10.00		74	67	69	79	9	16	29.89	30.00
12	BKN	075			10.00		80	62	69	54	10	18	29.85	29.96
15	SCT	080			10.00		82	59	68	46	9	19	29.77	
18	SCT	250			10.00		77	62	68	60	16	17	29.77	29.88
21	CLR	NC			10.00		70	66	67	87	7	16	29.78	29.89
24	FEW	027			10.00		69	66	67	90	6	17	29.79	29.89
SUNRISE: 0639 NOV 06 SUNSET: 1731														
03	SCT	038			8.00		69	68	68	97	0	00	29.78	29.88
06	FEW	017			8.00		69	67	68	93	0	00	29.80	29.91
09	BKN	080			10.00		72	68	69	87	5	18	29.87	29.97
12	OVC	030			10.00	-RA	78	66	70	67	15	28	29.85	29.96
15	OVC	055			10.00		75	67	70	76	8	30	29.81	29.92
18	OVC	090			10.00		69	58	62	68	0	00	29.83	29.94
21	OVC	060			10.00		68	55	60	63	3	27	29.88	29.98
24	OVC	090			10.00		66	49	57	54	3	35	29.91	30.02

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: 0640 NOV 07 SUNSET: 1730														
03	SCT	090			10.00		60	49	54	67	0	00	29.90	30.01
06	FEW	085			10.00		56	46	51	69	3	36	29.94	30.05
09	SCT	100			10.00		65	46	55	50	9	04	30.00	30.11
12	SCT	100			10.00		72	38	55	29	11	03	30.00	30.10
15	FEW	100			10.00		74	34	54	23	10	35	29.94	30.04
18	CLR	NC			10.00		59	44	51	58	0	00	29.94	30.05
21	CLR	NC			10.00		54	48	51	80	0	00	29.98	30.09
24	CLR	NC			10.00		50	42	46	74	0	00	29.98	30.10
SUNRISE: 0641 NOV 08 SUNSET: 1730														
03	CLR	NC			10.00		47	42	45	83	0	00	29.97	30.08
06	CLR	NC			10.00		44	42	43	93	0	00	29.97	30.08
09	CLR	NC			10.00		60	45	52	58	3	23	30.01	30.12
12	CLR	NC			10.00		74	37	55	26	8	26	29.98	30.09
15	CLR	NC			10.00		77	36	56	23	7	31	29.91	30.02
18	FEW	020			10.00		61	45	53	56	0	00	29.90	30.01
21	CLR	NC			10.00		54	43	49	67	0	00	29.93	30.04
24	CLR	NC			10.00		51	46	49	83	0	00	29.92	30.03
SUNRISE: 0641 NOV 09 SUNSET: 1729														
03	CLR	NC			9.00		50	45	48	83	0	00	29.93	30.04
06	CLR	NC			9.00		48	45	47	89	0	00	29.94	30.05
09	SCT	250			10.00		61	47	54	60	7	VR	29.98	30.10
12	SCT	250			10.00		74	41	57	31	10	13	29.97	30.07
15	FEW	250			10.00		76	47	60	36	16	12	29.90	30.00
18	SCT	250			10.00		66	52	58	61	11	13	29.91	30.02
21	FEW	120			10.00		62	55	58	78	9	11	29.93	30.04
24	BKN	095			10.00		62	55	58	78	9	10	29.92	30.03
SUNRISE: 0642 NOV 10 SUNSET: 1728														
03	OVC	110			10.00		62	56	59	81	9	09	29.88	29.99
06	BKN	110			10.00		63	57	60	81	9	09	29.88	29.98
09	BKN	110			5.00	RA	68	61	64	78	13	11	29.87	29.98
12	OVC	046			10.00	-RA	72	61	65	68	20	14	29.87	29.98
15	OVC	055			10.00	-RA	70	63	66	79	17	14	29.82	29.93
18	OVC	046			4.00	-RA BR	66	65	65	97	15	13	29.82	29.93
21	OVC	014			6.00	-RA BR	68	67	67	97	14	14	29.84	29.95
24	OVC	055			6.00	BR	69	67	68	93	11	15	29.83	29.94
SUNRISE: 0643 NOV 11 SUNSET: 1728														
03	OVC	042			6.00	BR	70	69	69	97	8	14	29.81	29.92
06	BKN	060			6.00	BR	70	69	69	97	6	15	29.81	29.92
09	BKN	075			10.00		73	70	71	90	9	16	29.84	29.95
12	BKN	070			10.00		81	70	74	69	10	20	29.80	29.91
15	OVC	050			8.00	-RA	69	66	67	90	11	02	29.77	29.88
18	OVC	032			10.00	-RA	64	62	63	93	13	06	29.78	29.89
21	OVC	005			10.00	-RA	64	62	63	93	9	02	29.79	29.90
24	OVC	009			1.00	TSRA BR	64	63	63	97	23	36	29.73	29.84
SUNRISE: 0644 NOV 12 SUNSET: 1727														
03	SCT	024			8.00	-TSRA	65	64	64	97	5	30	29.71	29.82
06	OVC	013			7.00		65	63	64	93	10	31	29.76	29.87
09	OVC	004			0.50	BR	65	63	64	93	3	02	29.81	29.92
12	OVC	013			10.00		67	63	65	87	7	07	29.78	29.89
15	SCT	250			10.00		72	62	66	71	7	12	29.75	29.86
18	BKN	250			10.00		66	63	64	90	3	31	29.78	29.89
21	BKN	250			10.00		63	62	62	97	0	00	29.85	29.96
24	OVC	013			10.00		65	64	64	97	3	33	29.86	29.97

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX
NOVEMBER 2008 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: 0645 NOV 13 SUNSET: 1727								
03	BKN	110			6.00	BR	62	61	61	97	3	35	29.84	29.94
06	VV	001			0.12	FG	60	60	60	100	5	05	29.84	29.95
09	BKN	130			0.75	BR	61	60	60	97	6	02	29.85	29.96
12	OVC	041			10.00		66	61	63	84	6	07	29.84	29.95
15	OVC	250			10.00		67	61	63	81	3	14	29.75	29.86
18	OVC	130			9.00		65	62	63	90	0	00	29.75	29.86
21	OVC	025			6.00	BR	63	61	62	93	0	00	29.72	29.83
24	OVC	100			7.00		63	61	62	93	6	10	29.72	29.83
						SUNRISE: 0646 NOV 14 SUNSET: 1726								
03	BKN	110			6.00	BR	63	61	62	93	7	09	29.67	29.78
06	BKN	004			4.00	BR	61	60	60	97	6	10	29.66	29.76
09	OVC	004			0.50	BR	64	62	63	93	5	20	29.70	29.80
12	BKN	050			2.00	HZ	71	64	67	79	3	21	29.71	29.82
15	BKN	038			10.00		75	61	66	62	8	26	29.68	29.78
18	FEW	035			10.00		71	61	65	71	0	00	29.70	29.81
21	SCT	035			10.00		68	62	64	81	8	32	29.83	29.94
24	BKN	100			10.00		64	42	53	45	14	34	29.98	30.09
						SUNRISE: 0646 NOV 15 SUNSET: 1726								
03	SCT	100			10.00		56	35	46	45	16	34	30.06	30.18
06	CLR	NC			10.00		52	35	44	53	15	34	30.13	30.24
09	CLR	NC			10.00		53	34	44	49	20	32	30.22	30.34
12	FEW	050			10.00		57	33	46	40	15	31	30.22	30.32
15	CLR	NC			10.00		58	29	45	33	20	33	30.16	30.28
18	CLR	NC			10.00		52	29	42	41	6	32	30.22	30.33
21	CLR	NC			10.00		49	31	41	50	6	35	30.27	30.38
24	CLR	NC			10.00		45	32	40	60	3	32	30.27	30.40
						SUNRISE: 0647 NOV 16 SUNSET: 1725								
03	CLR	NC			10.00		40	33	37	76	0	00	30.27	30.39
06	CLR	NC			10.00		37	34	36	89	3	26	30.29	30.41
09	CLR	NC			10.00		46	31	40	56	5	25	30.35	30.46
12	CLR	NC			10.00		55	28	43	36	7	VR	30.30	30.42
15	CLR	NC			10.00		60	28	46	30	3	VR	30.22	30.34
18	CLR	NC			10.00		50	41	46	71	0	00	30.21	30.32
21	CLR	NC			10.00		45	40	43	83	3	21	30.22	30.34
24	CLR	NC			10.00		43	39	41	86	0	00	30.24	30.35
						SUNRISE: 0648 NOV 17 SUNSET: 1725								
03	CLR	NC			10.00		41	39	40	93	0	00	30.22	30.33
06	CLR	NC			10.00		40	38	39	93	0	00	30.24	30.35
09	CLR	NC			10.00		54	42	48	64	6	26	30.29	30.41
12	CLR	NC			10.00		68	34	52	29	6	28	30.24	
15	CLR	NC			10.00		72	31	52	22	0	00	30.19	30.30
18	CLR	NC			10.00		60	39	50	46	0	00	30.19	30.30
21	CLR	NC			10.00		56	43	50	62	6	17	30.22	30.34
24	CLR	NC			10.00		51	45	48	80	0	00	30.24	30.36
						SUNRISE: 0649 NOV 18 SUNSET: 1724								
03	CLR	NC			10.00		49	42	46	77	0	00	30.24	30.36
06	CLR	NC			10.00		46	42	44	86	0	00	30.27	30.38
09	CLR	NC			10.00		56	43	50	62	3	08	30.32	30.44
12	CLR	NC			10.00		65	44	54	47	9	08	30.32	30.43
15	CLR	NC			10.00		69	43	55	39	9	11	30.27	30.38
18	CLR	NC			10.00		60	46	53	60	7	05	30.27	30.39
21	CLR	NC			10.00		53	45	49	74	7	07	30.32	30.43
24	FEW	250			10.00		48	42	45	80	8	10	30.30	30.42

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: 0650 NOV 19 SUNSET: 1724								
03	CLR	NC			9.00		46	43	45	89	5	10	30.27	30.38
06	FEW	250			9.00		44	41	43	89	5	04	30.24	30.35
09	CLR	NC			10.00		54	47	50	77	5	15	30.24	30.36
12	FEW	035			10.00		71	54	61	55	7	20	30.19	30.30
15	CLR	NC			10.00		74	51	61	45	8	18	30.09	30.20
18	FEW	250			10.00		64	58	61	81	9	13	30.08	30.19
21	CLR	NC			10.00		61	57	59	87	6	17	30.09	30.20
24	FEW	100			8.00		57	55	56	93	5	18	30.08	30.18
						SUNRISE: 0651 NOV 20 SUNSET: 1724								
03	FEW	001			9.00	MIFG	53	52	52	96	0	00	30.05	30.16
06	CLR	NC			5.00	BR	51	51	51	100	0	00	30.06	30.16
09	SCT	028			6.00	BR	62	58	60	87	3	36	30.11	30.22
12	SCT	030			10.00		73	58	64	59	7	27	30.09	30.19
15	SCT	130			10.00		78	56	65	47	7	33	30.03	30.14
18	SCT	250			10.00		66	57	61	73	0	00	30.06	30.17
21	BKN	250			10.00		63	45	54	52	16	34	30.14	30.26
24	BKN	090			10.00		56	43	50	62	10	35	30.22	30.32
						SUNRISE: 0651 NOV 21 SUNSET: 1723								
03	BKN	100			10.00		54	35	45	49	16	02	30.27	30.37
06	SCT	065			10.00		49	31	41	50	15	03	30.32	30.44
09	FEW	100			10.00		48	30	40	50	16	04	30.40	
12	FEW	100			10.00		53	28	42	38	13	04	30.38	30.50
15	CLR	NC			10.00		57	29	45	34	9	02	30.34	30.45
18	FEW	090			10.00		50	30	42	46	8	06	30.35	30.47
21	BKN	100			10.00		45	35	41	68	8	05	30.38	30.50
24	BKN	090			10.00		44	31	39	60	10	10	30.37	30.48
						SUNRISE: 0652 NOV 22 SUNSET: 1723								
03	BKN	110			9.00		43	33	39	68	8	06	30.35	30.47
06	OVC	070			10.00		44	31	39	60	9	05	30.34	30.45
09	SCT	080			10.00		48	34	42	59	9	06	30.35	30.47
12	FEW	250			9.00		60	44	52	56	10	10	30.29	30.41
15	SCT	250			10.00		66	51	58	59	9	12	30.22	30.34
18	OVC	065			10.00		61	53	57	75	13	14	30.22	30.33
21	BKN	060			10.00		57	45	51	64	10	11	30.24	30.35
24	BKN	085			10.00		55	48	51	77	5	10	30.21	30.32
						SUNRISE: 0653 NOV 23 SUNSET: 1723								
03	SCT	090			9.00		54	51	52	90	7	11	30.16	30.26
06	BKN	130			6.00	BR	58	56	57	93	8	14	30.13	30.24
09	OVC	085			7.00		64	60	62	87	5	11	30.14	30.26
12	BKN	250			10.00		76	62	67	62	15	14	30.10	30.21
15	BKN	250			10.00		77	60	66	56	8	17	30.03	30.14
18	BKN	250			10.00		72	63	66	73	11	16	30.03	30.13
21	OVC	110			10.00		71	64	67	79	9	16	30.03	30.14
24	BKN	250			10.00		70	64	66	81	6	18	30.02	30.13
						SUNRISE: 0654 NOV 24 SUNSET: 1722								
03	OVC	050			10.00		69	63	65	81	5	16	30.00	30.11
06	BKN	040			10.00		65	63	64	93	0	00	30.00	30.11
09	BKN	250			10.00	-RA	72	66	68	82	3	VR	30.06	30.17
12	SCT	022			10.00		77	65	69	67	13	30	30.06	30.17
15	FEW	036			10.00		78	60	67	54	14	33	30.02	30.13
18	FEW	250			10.00		68	57	62	68	8	35	30.09	30.20
21	CLR	NC			10.00		60	37	49	43	10	35	30.16	30.27
24	CLR	NC			10.00		53	36	45	53	7	33	30.19	30.31

OBSERVATIONS AT 3-HOURLY INTERVALS

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	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG) STATION	SEA LEVEL
SUNRISE: 0655						NOV 25			SUNSET: 1722					
03	CLR	NC			10.00		47	36	42	66	5	34	30.21	30.31
06	CLR	NC			10.00		43	35	40	73	0	00	30.21	30.32
09	FEW	250			10.00		51	37	45	59	7	04	30.24	30.36
12	FEW	250			10.00		62	29	47	29	3	VR	30.21	30.31
15	FEW	250			10.00		66	29	49	25	0	00	30.11	30.23
18	FEW	250			10.00		53	39	46	59	0	00	30.09	30.21
21	FEW	250			10.00		44	38	41	80	3	14	30.10	30.21
24	SCT	250			10.00		48	41	45	77	5	21	30.09	30.20
SUNRISE: 0655						NOV 26			SUNSET: 1722					
03	FEW	250			10.00		42	40	41	93	0	00	30.06	30.17
06	FEW	250			10.00		42	41	42	96	0	00	30.03	30.15
09	SCT	250			10.00		57	51	54	80	5	14	30.06	30.18
12	OVC	250			10.00		68	57	62	68	6	14	30.03	30.15
15	SCT	130			10.00		73	57	63	57	3	19	29.94	30.05
18	BKN	130			10.00		69	60	64	73	9	16	29.92	30.03
21	BKN	250			10.00		66	60	62	81	3	17	29.96	30.07
24	BKN	130			10.00		62	60	61	93	0	00	29.96	30.06
SUNRISE: 0656						NOV 27			SUNSET: 1722					
03	BKN	055			8.00		60	59	59	97	3	16	29.94	30.04
06	OVC	055			6.00	BR	61	60	60	97	0	00	29.94	30.04
09	OVC	002			0.75	BR	67	66	66	97	0	00	29.98	30.09
12	OVC	250			10.00		75	66	69	74	9	22	29.94	30.04
15	BKN	250			10.00		79	65	70	62	3	VR	29.86	29.96
18	OVC	250			10.00		74	66	69	76	3	17	29.86	29.96
21	BKN	250			10.00		72	66	68	82	9	13	29.84	29.95
24	BKN	250			9.00		70	67	68	90	3	18	29.86	29.96
SUNRISE: 0657						NOV 28			SUNSET: 1722					
03	OVC	050			10.00		69	67	68	93	3	15	29.82	29.93
06	BKN	048			7.00		69	68	68	97	3	15	29.80	29.91
09	OVC	250			10.00		72	69	70	90	7	VR	29.83	29.94
12	SCT	250			10.00		78	68	71	71	15	21	29.77	29.88
15	BKN	250			10.00		79	64	69	60	7	26	29.68	29.79
18	BKN	250			10.00		74	66	69	76	3	23	29.67	29.78
21	OVC	055			9.00		67	63	65	87	11	33	29.70	29.81
24	OVC	033			10.00		62	60	61	93	5	34	29.70	29.80
SUNRISE: 0658						NOV 29			SUNSET: 1722					
03	OVC	005			9.00		61	59	60	93	8	33	29.67	29.78
06	OVC	005			10.00		59	58	58	97	6	35	29.67	29.78
09	OVC	005			10.00		60	56	58	87	8	35	29.71	29.81
12	BKN	250			10.00		63	56	59	78	10	35	29.65	29.75
15	OVC	019			10.00		59	55	57	87	11	33	29.60	29.71
18	OVC	085			10.00		57	54	55	90	11	31	29.64	29.75
21	BKN	110			7.00		55	52	53	90	5	30	29.69	29.80
24	FEW	110			10.00		53	46	49	77	11	32	29.71	29.82
SUNRISE: 0659						NOV 30			SUNSET: 1721					
03	CLR	NC			10.00		47	42	45	83	8	27	29.66	29.77
06	FEW	250			10.00		46	41	44	83	7	25	29.67	29.78
09	SCT	250			10.00		53	37	46	55	14	30	29.70	29.81
12	SCT	250			10.00		61	31	47	32	22	30	29.71	29.82
15	BKN	250			10.00		62	30	47	30	18	30	29.68	29.79
18	BKN	250			10.00		58	30	45	35	10	28	29.73	29.84
21	BKN	250			10.00		55	32	45	42	8	28	29.83	29.94
24	BKN	250			10.00		54	36	46	51	9	30	29.83	

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	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG) STATION	SEA LEVEL

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

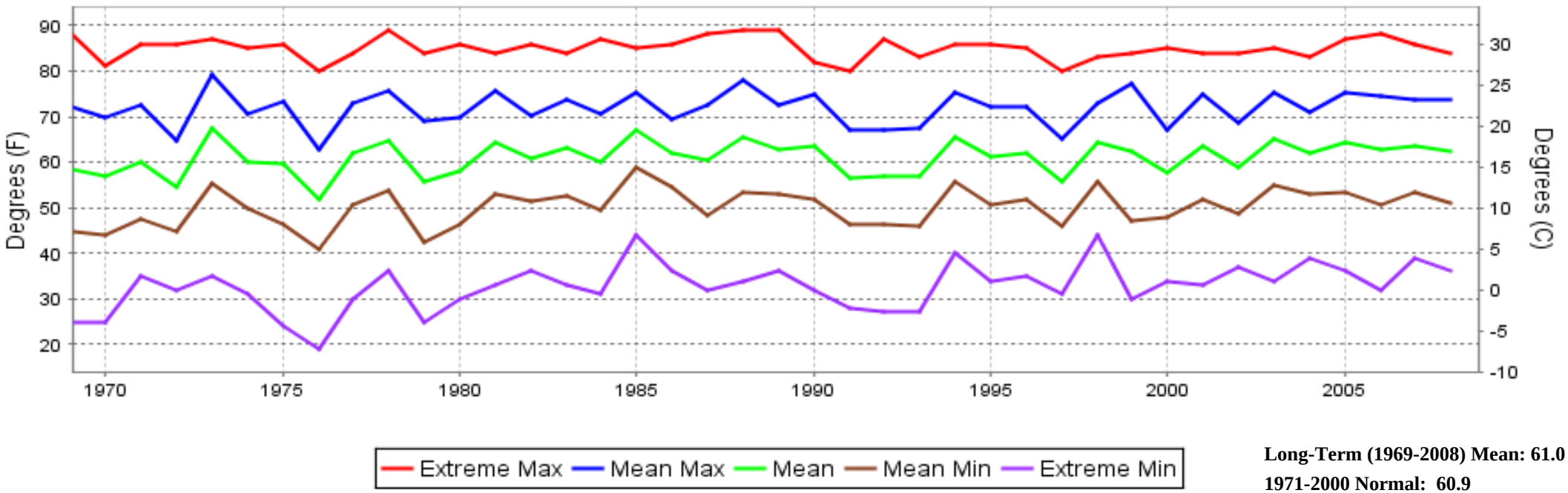
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No Ceiling detected.

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

SUMMARY BY HOUR

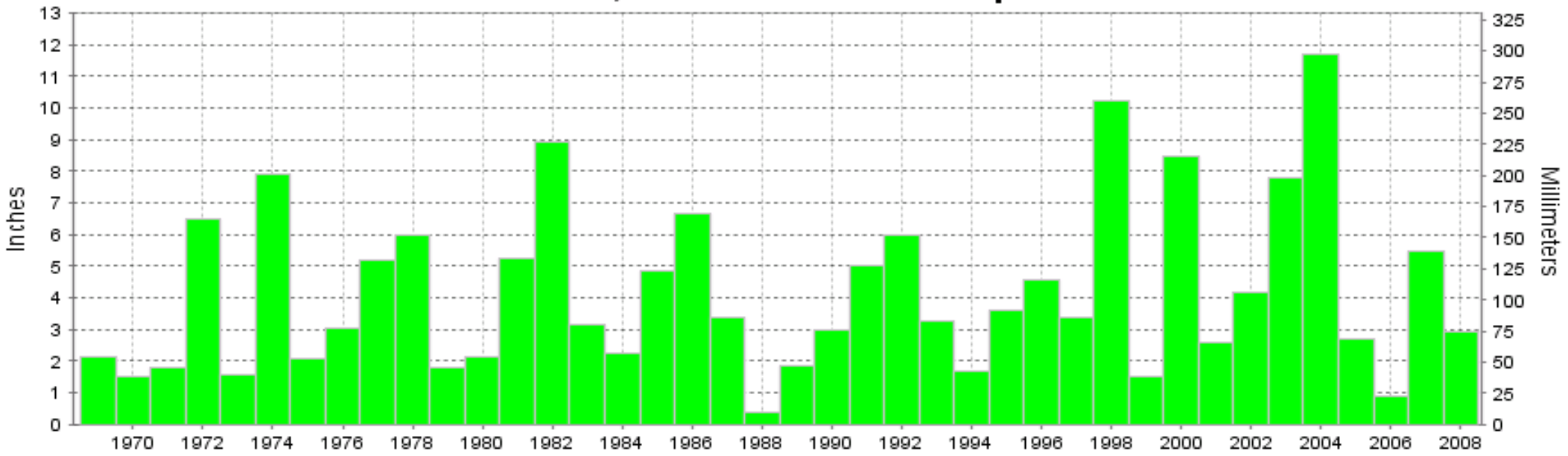
HOUR (LST)	AVERAGES CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG) STATION	SEA LEVEL	VISIBILITY (Miles)	WIND SPEED (MPH)	RESULTANT WIND (MPH) SPEED	DIRECTION
01			57	52	54	83	30.02	30.13	8.69	4	2	04
02			56	51	54	84	30.00	30.11	8.50	4	2	04
03			56	51	53	86	30.00	30.11	8.45	4	2	04
04			55	51	53	85	30.00	30.11	8.20	4	2	04
05			55	51	53	87	30.00	30.11	8.13	4	2	04
06			54	51	52	88	30.01	30.12	8.10	4	2	04
07			54	50	52	89	30.02	30.13	7.54	4	2	05
08			57	52	55	85	30.04	30.14	7.86	5	2	05
09			61	53	57	75	30.04	30.14	8.35	7	2	05
10			66	52	59	65	30.05	30.17	8.75	9	2	04
11			68	52	60	60	30.04	30.15	9.30	9	1	03
12			70	52	60	55	30.02	30.12	9.70	10	1	35
13			71	52	61	52	29.99	30.10	9.83	9	1	36
14			71	51	60	52	29.96	30.08	10.00	10	1	36
15			72	51	60	51	29.95	30.07	9.93	9	1	02
16			71	50	60	53	29.95	30.06	9.57	9	2	04
17			68	52	59	58	29.96	30.07	9.70	8	2	06
18			64	53	58	68	29.96	30.07	9.77	6	3	06
19			63	53	58	72	29.98	30.09	9.63	6	2	06
20			61	53	57	75	29.99	30.10	9.73	7	3	06
21			60	52	56	77	30.00	30.11	9.57	7	2	05
22			60	52	56	77	30.00	30.11	9.40	7	2	06
23			59	52	55	79	30.00	30.12	9.13	6	1	03
24			58	51	54	80	30.00	30.12	8.97	6	1	02

HOUSTON, TX NOVEMBER Temperatures



Long-Term (1969-2008) Mean: 61.0
1971-2000 Normal: 60.9

HOUSTON, TX NOVEMBER Precipitation



Long-Term (1969-2008) Mean Monthly Total: 4.19 **1971-2000 Normal: 4.19**

Published By: National Climatic Data Center

NOVEMBER 2008
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

NCDC now offers an annual online subscription for the **Edited Local Climatological Data Publication.** When you purchase this subscription service, you will have **immediate online access** to all previous publications back to July 1996 and all publications thereafter until the expiration of the subscription. Your subscription is valid for one year after purchase. **The total cost for online delivery (including back issues) is significantly less than the cost for offline delivery.**
To order this and other subscriptions online with your credit card, go to: **www.ncdc.noaa.gov** and choose subscriptions.

We welcome your questions or comments, please contact us at:
Toll Free Number (866) 742-3322 (voice)
Fax Number : (304) 726-4409
TDD : (828) 271-4010
or Email : ncdc.info@noaa.gov
Local Climatological Data is available at www.ncdc.noaa.gov

United States Department of Commerce | National Oceanic and Atmospheric Administration | National Environmental Satellite Atmospheric Administration

For address correction, please return a photocopy of this page to Subscription Services indicating changes

NCDC Subscription Services Center
310 State Route 956 Building 300
Rocket Center, WV 26726

FIRST CLASS
POSTAGE AND FEES PAID
NOAA
PERMIT G-19

OFFICIAL BUSINESS, PENALTY FOR PRIVATE USE $300