



JANUARY 2001

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

HOUSTON, TX

INTERCONTINENTAL AIRPORT (IAH)
 Lat: 29°59' N Long: 95°21' W Elev (Ground): 119 Feet
 Time Zone: CENTRAL WBAN: 12960 ISSN #:0198-5094

JANUARY 2001
HOUSTON, TX

DATE	TEMPERATURE °F							DEG DAYS BASE 65°		WEATHER	SNOW/ICE ON GND (IN)		PRECIPITATION (INCHES)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								DATE																													
	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	MAXIMUM																																			
																			5-SEC		2-MIN																																	
																			SPEED	DIR	SPEED	DIR																																
1	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	20	21	22	23	24																																
01	36	32	34*	-17	32	33	31	0	RA BR	0	0.0	0.19	30.31	30.44	8.7	02	9.0	29	32	15	03	01																																
02	40	29	35	-16	21	28	30	0		0	0.0	0.00	30.49	30.62	9.0	03	9.7	26	05	20	04	02																																
03	44	26	35	-16	23	30	30	0		0	0.0	0.00	30.42	30.55	3.5	30	4.6	15	29	10	30	03																																
04	66	32	49	-2	35	41	16	0		0	0.0	0.00	30.13	30.26	1.8	25	2.8	10	29	8	31	04																																
05	72	33	53	3	39	44	12	0		0	0.0	0.00	29.99	30.11	2.0	24	2.5	14	29	12	28	05																																
06	70	32	51	1	48	50	14	0		0	0.0	0.00	29.85	29.98	3.3	17	3.9	17	20	14	20	06																																
07	67	50	59	9	56	58	6	0	RA DZ BR	0	0.0	0.06	29.79	29.92	4.7	28	7.1	22	30	17	31	07																																
08	60	34	47	-3	34	41	18	0	BR	0	0.0	0.00	30.10	30.23	3.7	33	4.8	20	01	15	01	08																																
09	62	30	46	-4	34	40	19	0	BR	0	0.0	0.00	30.18	30.31	2.9	12	3.5	16	07	14	10	09																																
10	48	41	45	-5	41	44	20	0	RA BR	0	0.0	1.43	30.02	30.14	11.9	08	12.5	26	09	22	09	10																																
11	52	44	48	-2	45	46	17	0	BR	0	0.0	0.00	30.01	30.13	5.2	32	6.6	15	02	12	03	11																																
12	48	43	46	-4	43	44	19	0		0	0.0	0.00	30.11	30.24	4.0	06	5.2	15	09	13	10	12																																
13	58	45	52	2	50	51	13	0	RA BR	0	0.0	0.07	29.93	30.06	7.4	10	8.2	22	12	20	12	13																																
14	70	49	60	10	48	52	5	0	RA FG+ BR	0	0.0	0.01	29.96	30.08	2.9	32	3.6	12	30	9	30	14																																
15	60	43	52	2	43	49	13	0	RA	0	0.0	T	30.02	30.15	4.5	04	5.3	16	04	13	06	15																																
16	54	47	51	1	49	49	14	0	RA FG BR	0	0.0	1.10	29.91	30.04	8.9	07	9.6	24	36	16	08	16																																
17	52	43	48	-2	48	48	17	0	RA DZ FG+ BR	0	0.0	0.13	29.88	30.01	7.2	02	8.5	18	02	15	36	17																																
18	43	41	42	-8	41	41	23	0	TS TSRA RA BR	0	0.0	0.53	29.81	29.94	7.9	35	8.4	20	33	15	01	18																																
19	51	35	43	-7	34	40	22	0	RA	0	0.0	0.03	30.04	30.17	9.8	33	10.0	26	33	22	33	19																																
20	51	26*	39	-11	23	33	26	0		0	0.0	0.00	30.27	30.39	2.1	36	3.6	14	32	9	31	20																																
21	54	28	41	-9	38	39	24	0	RA BR	0	0.0	0.03	30.28	30.40	2.8	09	5.2	18	13	16	13	21																																
22	56	30	43	-7	37	40	22	0	BR	0	0.0	0.00	30.31	30.43	1.0	34	2.4	13	05	8	10	22																																
23	57	31	44	-7	40	42	21	0	BR	0	0.0	0.00	30.19	30.31	3.9	11	4.3	14	14	12	13	23																																
24	66	41	54	3	44	48	11	0	RA BR HZ	0	0.0	0.01	30.20	30.33	1.4	02	2.7	14	32	12	31	24																																
25	66	37	52	1	43	47	13	0	BR	0	0.0	0.00	30.22	30.34	5.0	13	5.8	21	11	17	13	25																																
26	76*	52	64	13	59	61	1	0	RA BR	0	0.0	0.17	30.02	30.15	3.1	16	4.6	20	22	16	21	26																																
27	74	59	67*	16	61	62	0	2	FG+ BR	0	0.0	0.00	30.01	30.13	9.5	12	10.3	28	14	24	14	27																																
28	71	57	64	13	63	64	1	0	RA BR	0	0.0	T	29.88	30.00	11.3	12	12.1	26	15	22	15	28																																
29	70	47	59	8	49	52	6	0	RA BR	0	0.0	0.49	29.74	29.87	4.8	25	8.5	35*	30	25*	30	29																																
30	74	45	60	9	49	54	5	0		0	0.0	0.00	29.75	29.88	5.1	24	6.0	22	25	16	25	30																																
31	61	46	54	3	37	46	11	0		0	0.0	0.00	30.00	30.12	6.5	33	6.8	18	31	15	32	31																																
59.0											39.6	49.3	■ ■	42.2	45.7	15.5	0.1	< MONTHLY AVERAGES		TOTALS->		0.0	4.25	30.06	30.18	1.9	04	6.4	<- MONTHLY AVERAGES																									
-2.0											-0.1	-1.1	■ ■	<-----DEPARTURE FROM NORMAL----->											0.96	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																												
DEGREE DAYS											GREATEST 24-HR PRECIPITATION: 1.43 DATE: 10											SEA LEVEL PRESSURE											DATE		TIME																			
MONTHLY											GREATEST 24-HR SNOWFALL: 0.0 DATE: :											MAXIMUM											:		:																			
TOTAL DEPARTURE											GREATEST SNOW DEPTH: 0 DATE: :											MINIMUM											:		:																			
HEATING: 480											NUMBER OF DAYS WITH											MAXIMUM TEMP ≥ 90: 0											MINIMUM TEMP ≤ 32: 10											PRECIPITATION ≥ 0.01 INCH: 13										
COOLING: 2											SEASON TO DATE											MAXIMUM TEMP ≤ 32: 0											MINIMUM TEMP ≤ 0: 0											PRECIPITATION ≥ 0.10 INCH: 7										
12											TOTAL DEPARTURE											THUNDERSTORMS: 1											HEAVY FOG: 3											SNOWFALL ≥ 1.0 INCH: 0										
-14											1335																																											
-14											281																																											
											2																																											
											-14																																											

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX

JANUARY 2001

IAH

WBAN # 12960

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note)	2400 LST	
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			Water	Equiv.
01	0.09	0.08	0.02	T									01												01		0.19		
02													02												02		0.00		
03													03												03		0.00		
04													04												04		0.00		
05													05												05		0.00		
06													06												06		0.00		
07					T	0.01							07	T		0.01	T	T						07		0.06			
08									0.02	T	0.02		08											08		0.00			
09													09											09		0.00			
10										T	0.03	0.11	10	0.04	0.04	0.21	0.04	0.19	0.03	0.10	0.36	0.17	0.06	0.05	T	10	1.43		
11													11												11		0.00		
12													12												12		0.00		
13													13			T	0.03	0.02	T	T	0.01	T	0.01		T	13	0.07		
14	0.01	T											14												14		0.01		
15													15												15		T		
16	0.01	T		0.01	0.05	0.01	0.04	0.10	0.04	0.02	0.01	T	16	0.08	0.43	0.28	0.02	T	T		T	T		16		1.10			
17										T	0.02	0.02	17	0.02	0.02	T	T	T	T		T	0.02	0.02	0.01	17		0.13		
18					T	0.04		0.14	0.04	0.05	0.03	0.01	18											T	0.11	0.01	18	0.53	
19	0.02	0.01	T	T			T	T					19													19	0.03		
20													20													20	0.00		
21													21		T	0.02	0.01	T							21		0.03		
22													22												22		0.00		
23													23												23		0.00		
24				T	0.01	T		T					24												24		0.01		
25													25												25		0.00		
26													26				0.16	0.01							26		0.17		
27													27												27		0.00		
28													28			T									28		T		
29		0.03	T	0.02	0.21	0.20	0.01	T	0.02	T	T		29						T	T					29		0.49		
30													30												30		0.00		
31													31												31		0.00		

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.12	.16	.20	.23	.28	.37	.48	.62	.68	.74	.78	.79
Ending Date	26	16	16	16	16	16	16	16	16	16	16	16
Ending Time (Hour/Min)	1520	1414	1323	1327	1338	1353	1409	1427	1433	1433	1450	1516

Date and time are not entered for TRACE amounts.

Note : The sum of the hourly totals is given when it differs from the daily total. 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 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 1961–1990

WEATHER NOTATIONS

QUALIFIER	WEATHER PHENOMENA		
	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	SQ Squalls
PR Partial	RA Rain	PY Spray	SS Sandstorm
SH Shower(s)	SG Snow Grains	SA Sand	GL Glaze
TS Thunderstorm	SN Snow	VA Volcanic Ash	
VC In the Vicinity	UP Unknown Precipitation		

Intensity (as indicated on pages 4 to 6):
'+' = Heavy ' ' = Moderate '- ' = Light

HOUSTON, TX JANUARY 2001

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	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							4.00	10.00	
02							10.00	10.00	
03							9.00	10.00	
04							8.00	10.00	
05							9.00	10.00	
06							8.00	10.00	
07							1.00	10.00	
08							10.00	10.00	
09							10.00	10.00	
10							1.50	10.00	
11							1.50	10.00	
12							8.00	10.00	
13							1.00	9.00	
14							.25	10.00	
15							10.00	10.00	
16							.25	10.00	
17							.25	10.00	
18							1.00	10.00	
19							7.00	10.00	
20							10.00	10.00	
21							6.00	10.00	
22							1.75	10.00	
23							2.50	10.00	
24							3.00	10.00	
25							5.00	10.00	
26							2.00	10.00	
27							.00	90.00	
28							5.00	10.00	
29							5.00	10.00	
30							10.00	10.00	
31							10.00	10.00	
MONTHLY AVGS							5.49	12.55	
SUNSHINE (MINUTES)									
Total: Possible: Percent Possible:									
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR PTLY CLDY CLOUDY MISSING 31									
MINIMUM VISIBILITY (MILES)									
<=0.25 <=3.0 >=7.0 4 10 13									

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX

JANUARY 2001

IAH

WBAN # 12960

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)							
	SKY COVER	CEILING 100'S OF FT		OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)		DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0717				JAN 01				SUNSET: 1733				SUNRISE: 0718				JAN 07				SUNSET: 1738									
03	OVC	008		7.00	-RA	33	33	33	100	12	02	30.26	30.39	03	OVC	004		9.00	62	62	62	100	3	20	29.70	29.83			
06	OVC	028		10.00		33	33	33	100	9	02	30.27	30.40	06	OVC	006		7.00	63	63	63	100	7	23	29.70	29.82			
09	OVC	009		10.00		35	33	34	93	8	01	30.33	30.46	09	BKN	100		3.00	BR	63	63	63	100	6	23	29.74	29.86		
12	OVC	009		10.00		35	32	34	89	9	36	30.33	30.46	12	OVC	042		6.00	BR	65	63	64	93	7	23	29.78	29.91		
15	OVC	014		10.00		36	32	34	86	8	02	30.30	30.42	15	OVC	090		10.00	59	54	56	83	16	31	29.76	29.88			
18	OVC	014		10.00		34	30	32	85	9	36	30.30	30.43	18	BKN	110		10.00	54	51	52	90	5	30	29.82	29.94			
21	OVC	016		10.00		34	30	32	85	9	03	30.37	30.49	21	SCT	NC		10.00	54	45	49	72	7	33	29.92	30.05			
24	OVC	035		10.00		32	28	31	85	3	35	30.39	30.52	24	FEW	NC		10.00	50	37	44	61	8	33	30.01	30.13			
SUNRISE: 0718				JAN 02				SUNSET: 1734				SUNRISE: 0718				JAN 08				SUNSET: 1738									
03	OVC	029		10.00		31	25	29	79	15	05	30.41	30.54	03	FEW	NC		10.00	46	33	40	61	9	34	30.05	30.18			
06	OVC	044		10.00		30	21	27	69	12	05	30.46	30.59	06	SCT	NC		10.00	42	33	38	71	6	35	30.08	30.21			
09	OVC	040		10.00		30	19	26	64	14	05	30.54	30.67	09	BKN	250		10.00	43	35	40	74	5	34	30.16	30.28			
12	OVC	046		10.00		33	19	28	56	12	02	30.52	30.66	12	BKN	250		10.00	54	35	45	49	3	32	30.16	30.29			
15	OVC	044		10.00		37	20	31	50	8	02	30.47	30.60	15	BKN	250		10.00	58	32	46	38	8	30	30.06	30.19			
18	BKN	250		10.00		34	20	29	56	7	35	30.48	30.61	18	BKN	250		10.00	48	35	42	61	3	34	30.07	30.20			
21	OVC	250		10.00		31	20	27	64	5	36	30.54	30.67	21	SCT	NC		10.00	38	36	37	93	0	00	30.11	30.24			
24	BKN	250		10.00		29	21	26	72	6	35	30.53	30.66	24	FEW	NC		10.00	35	34	35	96	3	25	30.14	30.27			
SUNRISE: 0718				JAN 03				SUNSET: 1735				SUNRISE: 0718				JAN 09				SUNSET: 1739									
03	FEW	NC		10.00		27	20	25	75	5	34	30.49	30.62	03	FEW	NC		10.00	32	32	32	100	0	00	30.14	30.26			
06	BKN	250		10.00		27	21	25	78	5	33	30.50	30.63	06	CLR	NC		10.00	31	31	31	100	0	00	30.17	30.30			
09	BKN	250		10.00		30	21	27	69	3	34	30.52	30.65	09	SCT	NC		10.00	42	36	39	79	0	00	30.24	30.36			
12	BKN	250		10.00		37	21	31	52	8	29	30.47	30.60	12	BKN	250		10.00	58	33	47	39	7	13	30.22	30.35			
15	FEW	NC		10.00		42	22	35	45	8	26	30.36	30.49	15	FEW	NC		10.00	61	33	48	35	10	10	30.16	30.28			
18	SCT	NC		10.00		38	27	34	65	3	25	30.31	30.44	18	BKN	250		10.00	52	38	45	59	9	15	30.17	30.29			
21	CLR	NC		10.00		30	27	29	88	0	00	30.33	30.46	21	FEW	NC		10.00	46	35	41	66	6	14	30.20	30.32			
24	CLR	NC		9.00		34	30	32	85	5	23	30.29	30.41	24	OVC	110		10.00	45	41	43	86	6	08	30.19	30.32			
SUNRISE: 0718				JAN 04				SUNSET: 1735				SUNRISE: 0718				JAN 10				SUNSET: 1740									
03	CLR	NC		10.00		33	30	32	89	3	24	30.22	30.35	03	OVC	085		10.00	47	38	43	71	7	08	30.17	30.30			
06	CLR	NC		10.00		34	31	33	89	3	VR	30.17	30.30	06	OVC	090		10.00	44	34	40	68	10	07	30.11	30.24			
09	FEW	NC		8.00		40	35	38	83	7	29	30.20	30.33	09	OVC	030		10.00	44	36	41	73	16	08	30.11	30.24			
12	FEW	NC		10.00		58	36	48	44	3	VR	30.16	30.29	12	OVC	042		9.00	-RA	42	40	41	92	14	07	30.05	30.18		
15	SCT	NC		10.00		64	35	50	34	0	00	30.06	30.19	15	OVC	015		3.00	RA BR	42	42	42	100	16	09	29.94	30.07		
18	SCT	NC		10.00		53	43	48	69	0	00	30.05	30.18	18	OVC	008		5.00	RA BR	46	46	46	100	16	10	29.87	30.00		
21	FEW	NC		10.00		43	40	42	89	0	00	30.06	30.18	21	OVC	050		9.00	-RA	47	47	47	100	9	06	29.89	30.02		
24	FEW	NC		10.00		38	37	38	97	0	00	30.04	30.17	24	OVC	008		7.00		48	48	48	100	5	31	29.92	30.05		
SUNRISE: 0718				JAN 05				SUNSET: 1736				SUNRISE: 0718				JAN 11				SUNSET: 1741									
03	CLR	NC		10.00		36	36	36	100	0	00	30.00	30.13	03	OVC	004		1.50	BR	48	48	48	100	5	29	29.91	30.04		
06	CLR	NC		10.00		34	34	34	100	0	00	29.99	30.12	06	OVC	004		3.00		45	45	45	100	6	30	29.94	30.07		
09	FEW	NC		10.00		48	42	45	80	7	22	30.01	30.14	09	OVC	004		1.50	BR	44	44	44	100	7	32	30.00	30.13		
12	CLR	NC		10.00		66	40	53	39	5	VR	30.02	30.15	12	OVC	006		6.00	BR	48	46	47	93	5	VR	30.02	30.15		
15	CLR	NC		10.00		72	39	55	30	6	20	29.94	30.07	15	OVC	013		10.00	51	46	49	83	5	31	29.99	30.11			
18	FEW	NC		10.00		58	43	50	58	3	24	29.93	30.06	18	OVC	013		9.00		48	45	47	89	8	31	30.03	30.16		
21	CLR	NC		10.00		45	41	43	86	0	00	29.96	30.09	21	OVC	011		8.00		46	44	45	93	10	01	30.10	30.22		
24	CLR	NC		10.00		40	38	39	93	0	00	29.97	30.09	24	OVC	009		10.00	45	43	44	93	8	36	30.11	30.23			
SUNRISE: 0718				JAN 06				SUNSET: 1737				SUNRISE: 0718				JAN 12				SUNSET: 1742									
03	CLR	NC		10.00		37	37	37	100	0	00	29.94	30.07	03	OVC	007		10.00	44	42	43	93	5	01	30.12	30.24			
06	FEW	NC		10.00		35	35	35	100	0	00	29.92	30.05	06	OVC	008		8.00		44	42	43	93	0	00	30.12	30.24		
09	FEW	NC		10.00		46	44	45	93	3	13	29.94	30.06	09	OVC	008		8.00		44	42	43	93	5	07	30.16	30.28		
12	SCT	NC		9.00		66	51	58	59	7	VR	29.90	30.03	12	OVC	010		8.00		45	42	44	90	5	13	30.16	30.28		
15	BKN	250		10.00		68	56	61	66	9	18	29.80	29.93	15	OVC	012		10.00	47	43	45	86	6	05	30.08	30.20			
18	SCT	NC		10.00		63	57	60	81	8	16	29.76	29.89	18	OVC	012		10.00	45	43	44	93	8	05	30.07	30.20			
21	OVC	025		10.00		61	58	59	90	8	17	29.75	29.88	21	OVC	009		10.00	45	43	44	93	10	11	30.09	30.22			
24	OVC	007		9.00		58	58	58	100	6	17	29.72	29.85	24	OVC	009		9.00		45	43	44	93	3	10	30.08	30.21		

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX

JANUARY 2001

IAH

WBAN # 12960

HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)					
	SKY COVER	CEILING 100'S OF FT			OBSERVATION TIME (LST)	EFF CLD AMT Oktas	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL			SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0718					JAN 13				SUNSET: 1743				SUNRISE: 0717					JAN 19				SUNSET: 1748							
03	OVC	007	7.00		46	44	45	93	9	13	30.02	30.15	03	OVC	013	10.00		42	41	42	96	8	33	29.85	29.97				
06	OVC	005	6.00	BR	46	46	46	100	9	07	29.93	30.06	06	OVC	048	10.00		41	37	39	86	10	32	29.94	30.07				
09	OVC	006	4.00	BR	48	47	47	96	13	09	29.96	30.08	09	BKN	070	10.00		42	37	40	82	12	32	30.00	30.13				
12	OVC	009	6.00	BR	53	50	51	89	13	08	29.95	30.08	12	BKN	100	10.00		48	37	43	66	13	32	30.06	30.19				
15	OVC	011	5.00	-RA BR	56	54	55	93	14	11	29.86	29.98	15	FEW	NC	10.00		50	29	41	44	18	34	30.05	30.18				
18	OVC	004	4.00	BR	55	55	55	100	5	08	29.86	29.99	18	FEW	NC	10.00		46	29	39	51	12	34	30.11	30.24				
21	OVC	004	2.00	-RA BR	54	54	54	100	0	00	29.92	30.05	21	CLR	NC	10.00		41	29	36	62	6	32	30.23	30.36				
24	OVC	002	1.50	-RA BR	53	53	53	100	3	30	29.92	30.04	24	CLR	NC	10.00		36	29	33	76	6	32	30.25	30.38				
SUNRISE: 0718					JAN 14				SUNSET: 1743				SUNRISE: 0717					JAN 20				SUNSET: 1749							
03	OVC	002	0.75	BR	54	54	54	100	0	00	29.90	30.02	03	CLR	NC	10.00		33	23	30	67	5	34	30.27	30.40				
06	VV	001	0.25	FG	54	54	54	100	3	29	29.92	30.05	06	CLR	NC	10.00		28	19	25	69	5	32	30.31	30.44				
09	BKN	080	10.00		50	50	50	100	5	31	29.98	30.11	09	CLR	NC	10.00		32	19	28	59	8	36	30.36	30.49				
12	BKN	250	10.00		62	45	53	54	5	VR	30.00	30.12	12	CLR	NC	10.00		42	21	34	43	8	03	30.30	30.43				
15	SCT	NC	10.00		68	38	53	33	3	27	29.94	30.06	15	SCT	NC	10.00		50	17	38	27	3	VR	30.23	30.35				
18	OVC	250	10.00		58	45	51	62	6	34	29.94	30.07	18	SCT	NC	10.00		45	27	38	49	8	11	30.20	30.33				
21	BKN	065	10.00		56	45	50	67	0	00	30.00	30.13	21	FEW	NC	10.00		39	29	35	67	0	00	30.23	30.36				
24	OVC	075	10.00		54	46	50	75	3	01	30.00	30.12	24	CLR	NC	10.00		33	31	32	92	0	00	30.23	30.36				
SUNRISE: 0718					JAN 15				SUNSET: 1744				SUNRISE: 0716					JAN 21				SUNSET: 1749							
03	BKN	085	10.00		51	44	48	77	5	01	30.01	30.14	03	CLR	NC	9.00		31	30	31	96	0	00	30.23	30.35				
06	SCT	NC	10.00		48	41	45	77	5	02	30.02	30.15	06	CLR	NC	10.00		30	30	30	100	0	00	30.25	30.38				
09	BKN	250	10.00		48	42	45	80	8	03	30.06	30.19	09	OVC	090	10.00		40	36	38	86	9	11	30.30	30.43				
12	OVC	080	10.00		57	42	50	58	9	04	30.04	30.17	12	OVC	090	10.00		52	40	46	64	12	13	30.28	30.41				
15	OVC	060	10.00		59	43	51	56	5	08	30.00	30.13	15	OVC	031	6.00	-RA BR	48	45	47	89	6	05	30.23	30.35				
18	OVC	060	10.00		57	45	51	64	8	07	29.97	30.10	18	OVC	033	7.00		46	46	46	100	5	35	30.28	30.40				
21	OVC	055	10.00		56	45	50	67	6	07	29.99	30.12	21	OVC	039	10.00		42	40	41	92	5	01	30.34	30.46				
24	OVC	045	10.00		54	45	49	72	7	06	30.01	30.14	24	OVC	037	10.00		40	38	39	93	7	33	30.34	30.47				
SUNRISE: 0718					JAN 16				SUNSET: 1745				SUNRISE: 0716					JAN 22				SUNSET: 1750							
03	OVC	029	10.00		52	45	48	77	7	07	29.96	30.09	03	CLR	NC	9.00		36	35	36	97	6	33	30.32	30.45				
06	OVC	023	8.00	RA	48	47	47	96	7	06	29.94	30.06	06	FEW	NC	9.00		32	32	32	100	3	32	30.33	30.46				
09	OVC	006	10.00	-RA	47	47	47	100	15	08	29.94	30.07	09	SCT	NC	6.00	BR	38	37	38	97	5	01	30.38	30.50				
12	OVC	006	10.00		50	49	49	96	12	07	29.93	30.06	12	SCT	NC	10.00		49	37	44	64	7	34	30.35	30.48				
15	OVC	006	1.50	-RA BR	49	49	49	100	8	07	29.86	29.98	15	FEW	NC	10.00		55	38	47	53	0	00	30.25	30.38				
18	OVC	006	3.00		50	50	50	100	9	06	29.85	29.97	18	FEW	NC	10.00		48	41	45	77	0	00	30.25	30.38				
21	OVC	002	0.50	FG	51	51	51	100	10	08	29.87	30.00	21	FEW	NC	10.00		41	38	40	89	0	00	30.26	30.39				
24	OVC	002	0.25	FG	52	52	52	100	9	10	29.87	29.99	24	FEW	NC	10.00		37	37	37	100	0	00	30.26	30.38				
SUNRISE: 0718					JAN 17				SUNSET: 1746				SUNRISE: 0716					JAN 23				SUNSET: 1751							
03	VV	001	0.25	FG	51	51	51	100	9	09	29.85	29.98	03	CLR	NC	10.00		33	33	33	100	0	00	30.24	30.37				
06	OVC	001	0.25	FG	52	52	52	100	7	05	29.87	30.00	06	BKN	250	6.00	BR	32	32	32	100	0	00	30.23	30.35				
09	OVC	001	0.25	FG	51	51	51	100	8	02	29.91	30.03	09	OVC	250	4.00	BR	41	40	41	96	0	00	30.25	30.38				
12	OVC	004	1.50	-RA BR	49	49	49	100	9	35	29.92	30.05	12	OVC	250	10.00		54	44	49	69	8	13	30.22	30.35				
15	OVC	007	10.00		47	47	47	100	8	35	29.85	29.98	15	OVC	038	10.00		55	44	50	67	8	11	30.12	30.25				
18	OVC	006	4.00	DZ BR	45	45	45	100	9	35	29.87	29.99	18	BKN	250	10.00		51	44	48	77	6	14	30.10	30.23				
21	OVC	007	4.00	-RA BR	44	43	44	96	10	36	29.89	30.01	21	OVC	130	10.00		48	41	45	77	8	13	30.14	30.27				
24	OVC	007	8.00		43	42	43	97	9	35	29.88	30.01	24	OVC	050	10.00		48	39	44	71	6	07	30.14	30.27				
SUNRISE: 0717					JAN 18				SUNSET: 1747				SUNRISE: 0715					JAN 24				SUNSET: 1752							
03	OVC	005	9.00		42	42	42	100	8	01	29.84	29.97	03	OVC	046	10.00		47	40	44	77	3	15	30.14	30.27				
06	OVC	005	4.00	BR	41	41	41	100	9	36	29.81	29.93	06	OVC	040	4.00	BR	45	45	45	100	3	04	30.16	30.29				
09	OVC	006	1.00	-RA BR	41	41	41	100	7	35	29.84	29.96	09	BKN	085	3.00	BR	47	46	47	97	3	02	30.23	30.35				
12	OVC	020	10.00		42	41	42	96	9	34	29.82	29.95	12	SCT	NC	8.00		59	48	53	67	6	08	30.24	30.36				
15	OVC	008	10.00		42	40	41	92	9	34	29.77	29.90	15	CLR	NC	10.00		66	45	55	47	6	VR	30.16	30.29				
18	OVC	012	10.00		41	40	41	96	12	36	29.78	29.91	18	CLR	NC	10.00		59	43	51	56	5	31	30.20	30.32				
21	OVC	011	10.00	-RA	42	41	42	96	10	36	29.76	29.89	21	CLR	NC	10.00		46	43	45	89	0	00	30.25	30.37				
24	OVC	008	6.00	-RA BR	41	41	41	100	8	30	29.81	29.94	24	CLR	NC	9.00		41	41	41	100	0	00	30.27	30.40				

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX

JANUARY 2001

IAH

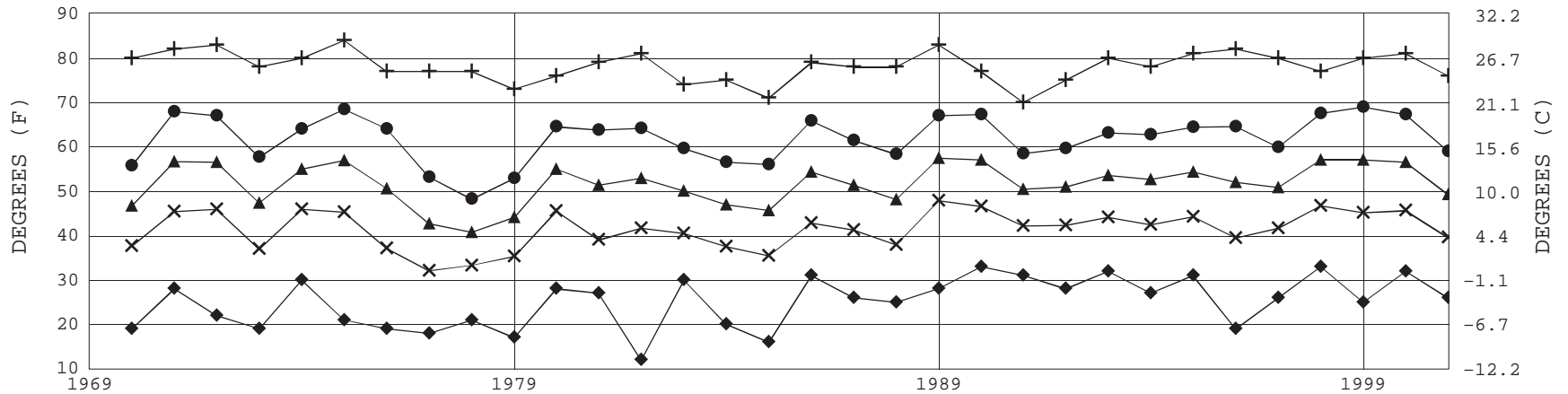
WBAN # 12960

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		OBSERVATION TIME (LST)	EFF CLD AMT Okta	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		OBSERVATION TIME (LST)	EFF CLD AMT Okta	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)	
	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)					SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)		SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL												
SUNRISE: 0715										JAN 25				SUNSET: 1753				SUNRISE: 0712										JAN 31				SUNSET: 1758			
03	CLR	NC						9.00		39	39	39	100	0	00	30.26	30.39	03	BKN	250						10.00		53	38	46	57	5	35	29.88	30.00
06	CLR	NC						10.00		38	38	38	100	0	00	30.27	30.40	06	BKN	250						10.00		48	38	43	68	7	33	29.93	30.05
09	BKN	250						8.00		48	44	46	86	3	VR	30.31	30.43	09	BKN	250						10.00		50	38	44	63	7	35	30.05	30.17
12	BKN	250						10.00		62	44	53	52	7	08	30.26	30.39	12	OVC	250						10.00		58	35	47	42	12	33	30.04	30.16
15	BKN	250						10.00		66	45	55	47	12	13	30.15	30.27	15	BKN	250						10.00		60	37	49	42	12	30	29.97	30.10
18	BKN	250						10.00		57	43	50	60	13	14	30.15	30.27	18	BKN	250						10.00		56	39	48	53	6	34	30.01	30.14
21	OVC	085						10.00		54	46	50	75	8	13	30.16	30.28	21	BKN	250						10.00		52	35	44	53	5	34	30.06	30.19
24	OVC	060						10.00		53	49	51	86	6	08	30.11	30.23	24	BKN	250						10.00		48	35	42	61	5	36	30.08	30.21
SUNRISE: 0715										JAN 26				SUNSET: 1754				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, VV = 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.																	
03	OVC	080						8.00		53	52	52	96	3	10	30.05	30.17																		
06	OVC	033						7.00		54	53	53	97	5	11	30.03	30.16																		
09	BKN	070						4.00	BR	59	57	58	93	5	12	30.06	30.19																		
12	BKN	021						10.00		71	63	66	76	10	22	30.03	30.16																		
15	BKN	034						10.00		73	61	66	66	5	22	29.95	30.08																		
18	BKN	043						10.00		66	64	65	93	5	19	29.97	30.10																		
21	OVC	049						10.00		65	64	64	97	3	18	30.03	30.15																		
24	OVC	065						8.00		63	63	63	100	0	00	30.02	30.14																		
SUNRISE: 0714										JAN 27				SUNSET: 1755																					
03	BKN	085						7.00		59	59	59	100	5	07	29.99	30.12																		
06	OVC	085						5.00	BR	60	60	60	100	5	07	30.02	30.14																		
09	VV	001						0.00	FG	61	61	61	100	6	10	30.07	30.19																		
12	BKN	085						10.00		72	62	66	71	13	14	30.04	30.16																		
15	SCT	NC						10.00		72	60	65	66	23	14	29.95	30.08																		
18	OVC	029						10.00		67	60	63	79	16	12	29.97	30.09																		
21	OVC	075						10.00		64	61	62	90	13	12	29.99	30.12																		
24	OVC	055						10.00		62	60	61	93	10	09	29.98	30.10																		
SUNRISE: 0714										JAN 28				SUNSET: 1755																					
03	SCT	NC						10.00		58	58	58	100	10	09	29.95	30.07																		
06	OVC	075						7.00		58	58	58	100	9	10	29.92	30.04																		
09	OVC	075						7.00		61	60	60	97	12	10	29.94	30.06																		
12	OVC	075						10.00		70	64	66	82	17	15	29.93	30.05																		
15	OVC	020						10.00		69	65	66	87	15	13	29.84	29.97																		
18	OVC	012						6.00	BR	67	66	66	97	12	13	29.81	29.93																		
21	OVC	010						7.00		67	66	66	97	13	14	29.79	29.91																		
24	OVC	012						8.00		68	67	67	96	13	14	29.73	29.85																		
SUNRISE: 0713										JAN 29				SUNSET: 1756																					
03	OVC	012						8.00	-RA	69	68	68	96	21	16	29.65	29.77																		
06	OVC	019						7.00	-RA	47	47	47	100	9	31	29.79	29.92																		
09	OVC	075						10.00	-RA	49	48	48	97	5	28	29.80	29.93																		
12	SCT	NC						10.00		56	48	52	75	8	25	29.78	29.90																		
15	SCT	NC						10.00		62	41	51	46	13	26	29.69	29.81																		
18	FEW	NC						10.00		60	42	51	52	6	23	29.70	29.83																		
21	FEW	NC						10.00		53	46	50	77	5	18	29.73	29.86																		
24	SCT	NC						10.00		52	48	50	86	0	00	29.74	29.87																		
SUNRISE: 0713										JAN 30				SUNSET: 1757																					
03	SCT	NC						10.00		49	48	48	97	0	00	29.73	29.86																		
06	SCT	NC						10.00		46	46	46	100	3	20	29.71	29.84																		
09	BKN	250						10.00		56	52	54	87	10	21	29.76	29.88																		
12	BKN	250						10.00		71	50	59	47	12	24	29.76	29.89																		
15	BKN	250						10.00		73	53	61	50	13	24	29.69	29.81																		
18	BKN	250						10.00		69	51	59	53	3	VR	29.72	29.85																		
21	SCT	NC						10.00		56	46	51	70	5	30	29.81	29.94																		
24	BKN	130						10.00		58	38	48	48	7	32	29.84	29.97																		

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			45	42	44	90	30.06	30.18	11.42	5	2	5
02			45	42	44	90	30.06	30.18	8.66	5	2	5
03			44	41	43	90	30.05	30.18	8.53	5	2	5
04			44	41	42	91	30.05	30.18	8.14	6	2	2
05			43	40	42	92	30.05	30.18	7.81	5	2	1
06			42	40	41	92	30.06	30.19	7.79	5	3	2
07			42	40	41	92	30.07	30.20	7.65	5	2	3
08			43	40	42	92	30.09	30.22	7.25	5	2	3
09			46	42	44	88	30.10	30.23	7.35	7	3	4
10			49	42	46	80	30.11	30.24	8.09	7	3	5
11			52	43	48	74	30.11	30.24	8.44	7	2	7
12			54	43	49	68	30.09	30.22	9.15	8	2	5
13			56	43	49	64	30.05	30.18	9.19	8	1	8
14			57	43	50	63	30.03	30.15	9.05	7	1	1
15			57	42	50	63	30.02	30.14	9.21	9	1	7
16			56	43	50	65	30.01	30.14	9.19	8	1	3
17			55	43	49	67	30.01	30.14	9.05	8	2	6
18			52	44	48	75	30.02	30.15	8.97	7	2	6
19			50	44	47	80	30.04	30.16	9.00	5	2	6
20			49	43	46	82	30.05	30.18	8.95	6	2	6
21			48	43	46	83	30.06	30.18	9.05	5	2	7
22			47	43	45	85	30.06	30.19	9.09	5	2	6
23			47	42	45	86	30.06	30.19	9.04	5	2	4
24			46	42	44	87	30.06	30.19	8.86	5	2	2

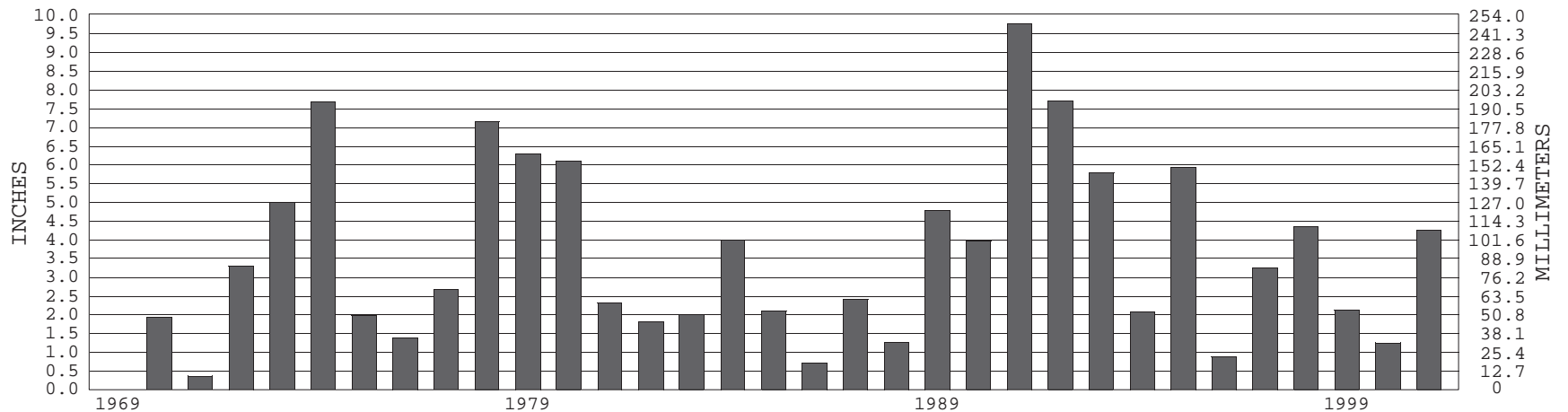
HOUSTON, TX JANUARY TEMPERATURES



+ Extreme Max. ● Mean Max. ▲ Mean × Mean Min. ◆ Extreme Min.

Long-Term (1969-2001) Mean: 50.1 1961-1990 Normal: 50.4

HOUSTON, TX JANUARY PRECIPITATION



Long-Term (1969-2001) Mean Monthly Total: 3.53

1961-1990 Normal: 3.29



**JANUARY 2001
HOUSTON, TX**

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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