



DECEMBER 2001

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

HOUSTON, TX

INTERCONTINENTAL AIRPORT (IAH)
 Lat: 29°59' N Long: 95°21' W Elev (Ground): 118 Feet
 Time Zone: CENTRAL WBAN: 12960 ISSN #:0198-5094

DECEMBER 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	0600 LST		1200 LST	2400 LST	2400 LST	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM													
																			5-SEC		2-MIN											
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	68	43	56	-1	51	53	9	0	RA FG BR	0		0.0	0.01	30.06	30.18	2.4	07	3.2	13	08	12	09	01									
02	58	55	57	0	55	56	8	0	RA BR	0		0.0	0.70	30.10	30.21	3.9	07	6.1	18	12	15	31	02									
03	71	53	62	6	60	61	3	0		0		0.0	0.00	30.05	30.17	6.5	12	7.2	16	13	14	13	03									
04	76	61	69	13	65	66	0	4	FG+ BR	0		0.0	0.00	30.02	30.14	8.7	12	9.5	22	12	18	12	04									
05	80	67	74	18	69	70	0	9	BR	0		0.0	0.00	30.04	30.15	8.5	14	8.7	21	15	17	15	05									
06	81*	67	74*	18	68	70	0	9	TSRA RA FG BR	0		0.0	0.01	30.03	30.14	3.1	16	4.4	14	16	13	14	06									
07	78	67	73	17	68	69	0	8	RA FG BR	0		0.0	T	29.90	30.01	4.7	18	5.5	16	20	13	21	07									
08	68	49	59	4	53	54	6	0	RA BR	0		0.0	0.52	29.98	30.09	6.2	33	7.4	26	36	21	35	08									
09	59	44	52	-3	37	44	13	0		0		0.0	0.00	30.08	30.20	5.7	33	6.3	17	34	12	35	09									
10	62	37	50	-5	37	43	15	0		0		0.0	0.00	30.02	30.13	2.2	35	3.2	14	01	10	01	10									
11	70	42	56	1	52	53	9	0	RA BR	0		0.0	1.67	29.90	30.02	6.1	08	7.5	16	01	15	08	11									
12	75	67	71	17	69	70	0	6	TSRA RA BR	0		0.0	1.54	29.79	29.90	6.3	18	7.3	25	16	20	17	12									
13	67	46	57	3	56	57	8	0	TSRA RA FG BR	0		0.0	1.00	29.80	29.91	5.2	33	7.3	30*	32	22	31	13									
14	63	40	52	-2	44	47	13	0	MIFG	0		0.0	0.00	29.94	30.05	0.9	22	2.5	10	14	9	14	14									
15	70	47	59	6	59	60	6	0	RA BR	0		0.0	T	29.87	29.99	10.1	12	11.2	28	13	22	13	15									
16	76	61	69	16	69	70	0	4	TSRA RA BR	0		0.0	0.33	29.77	29.88	10.0	17	12.0	29	32	23*	31	16									
17	65	44	55	2	50	54	10	0		0		0.0	0.00	29.95	30.06	8.2	30	8.4	21	32	17	31	17									
18	66	39	53	0	44	48	12	0		0		0.0	0.00	29.93	30.04	2.7	15	3.5	12	14	10	14	18									
19	63	41	52	0	40	46	13	0		0		0.0	0.00	30.07	30.18	7.1	33	7.8	25	33	18	33	19									
20	62	35	49	-3	38	43	16	0		0		0.0	0.00	30.25	30.37	0.8	05	2.8	10	08	8	09	20									
21	66	36	51	-1	47	49	14	0	MIFG BR	0		0.0	0.00	30.12	30.23	5.6	13	6.1	20	13	17	13	21									
22	73	54	64	12	63	63	1	0	TSRA RA FG+ BR	0		0.0	0.07	29.86	29.98	2.0	17	4.3	18	17	14	17	22									
23	62	44	53	1	33	44	12	0		0		0.0	0.00	30.05	30.17	7.6	36	8.0	20	02	16	03	23									
24	54	34	44	-8	25	36	21	0		0		0.0	0.00	30.13	30.25	5.2	36	5.8	17	02	15	02	24									
25	54	33	44	-8	24	36	21	0		0		0.0	0.00	30.10	30.21	4.9	33	6.6	17	32	14	35	25									
26	54	32	43	-9	25	36	22	0		0		0.0	0.00	30.08	30.20	5.4	31	6.5	26	31	18	31	26									
27	65	30*	48	-3	36	43	17	0		0		0.0	0.00	29.92	30.04	3.2	16	4.3	20	15	17	15	27									
28	69	47	58	7	49	53	7	0	TS TSRA RA BR	0		0.0	0.32	29.76	29.87	1.2	19	1.6	12	33	9	18	28									
29	67	39	53	2	41	46	12	0	FG+ BCFG BR	0		0.0	0.00	29.93	30.04	3.9	02	4.5	16	36	13	01	29									
30	53	36	45	-6	31	39	20	0		0		0.0	0.00	30.10	30.21	7.5	04	8.4	28	03	15	04	30									
31	45	38	42*	-9	29	36	23	0	RA	0		0.0	0.01	30.14	30.25	8.2	01	8.4					31									
65.8											46.1	56.0	■ ■	48.0	52.1	10.0	1.3	< MONTHLY AVERAGES		TOTALS->		0.0	6.18	29.99	30.11	1.1	07	6.3	<- MONTHLY AVERAGES			
1.1											3.9	2.5	■ ■	-----DEPARTURE FROM NORMAL-----										2.73	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3							
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 3.20 DATE: 11-12				SEA LEVEL PRESSURE				DATE		TIME												
MONTHLY TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: 0.0 DATE:				MAXIMUM				:		30.44		20 0953										
SEASON TO DATE TOTAL DEPARTURE										GREATEST SNOW DEPTH: 0 DATE:				MINIMUM				:		29.78		13 1153										
HEATING: 311 -63										NUMBER OF DAYS WITH				MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 2				PRECIPITATION ≥ 0.01 INCH: 11										
COOLING: 40 22														MAXIMUM TEMP ≤ 32: 0				MINIMUM TEMP ≤ 0: 0				PRECIPITATION ≥ 0.10 INCH: 7										
														THUNDERSTORMS: 6				HEAVY FOG: 3				SNOWFALL ≥ 1.0 INCH: 0										

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX

DECEMBER 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													01												01			0.01	
02	T	0.01		T	0.02	0.13	0.14	0.01	T	0.07	0.04	0.09	02	0.14	0.01	0.01	0.03	T	T	T				T	0.01			0.70	
03													03											T				0.00	
04													04											T				0.00	
05													05															0.00	
06													06					T	T									0.01	
07						T			T				07															T	
08						0.01			0.01	0.10	0.25	0.09	08	T	0.01	0.01	0.01	0.02	T	0.01	T							0.52	
09													09																0.00
10													10																0.00
11													11	0.02	0.01	0.06	0.11	0.05	0.34	0.18	0.23	0.54	0.05	T	0.08			1.67	
12	1.12	0.35	0.02	0.01	0.01	0.02	T		T				12															1.54	
13	T				T				T				13	0.23	T	0.01					0.01							1.00	
14													14															0.00	
15													15															T	
16	T												16	0.02	0.03	0.09	0.01	T	0.01	T	0.03	0.09	T	0.03				0.33	
17													17																0.00
18													18																0.00
19													19																0.00
20													20																0.00
21													21																0.00
22													22	0.04	T	0.01		T	T	0.01	T							0.07	
23													23																0.00
24													24																0.00
25													25																0.00
26													26																0.00
27													27																0.00
28	0.07	0.18		0.07	T								28																0.32
29													29																0.00
30													30																0.00
31	T	T	0.01	T									31																0.01

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.30	.48	.63	.70	.86	1.14	1.33	1.50	1.53	1.54	1.55	1.57
Ending Date	12	12	12	12	12	12	12	12	12	12	12	12
Ending Time (Hour/Min)	0041	0046	0048	0053	0107	0110	0107	0110	0110	0110	0205	0205

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 DECEMBER 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							.50	10.00	
02							1.50	10.00	
03							7.00	10.00	
04							.00	10.00	
05							.13	10.00	
06							.25	10.00	
07							.25	10.00	
08							1.75	10.00	
09							10.00	10.00	
10							10.00	10.00	
11							.25	10.00	
12							1.25	10.00	
13							.25	10.00	
14							8.00	10.00	
15							5.00	10.00	
16							.50	10.00	
17							10.00	10.00	
18							9.00	10.00	
19							10.00	10.00	
20							10.00	10.00	
21							6.00	10.00	
22							.00	10.00	
23							10.00	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							10.00	10.00	
27							9.00	10.00	
28							5.00	10.00	
29							.25	10.00	
30							10.00	10.00	
31							10.00	10.00	
MONTHLY AVGS							5.47	10.00	
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									
5 13 15									

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX DECEMBER 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 %	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)		DIRECTION TENS OF DEG	STATION		SEA LEVEL	OBSERVATION TIME (LST)	EFF CLD AMT %	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0660				DEC 01	SUNSET: 1721				SUNRISE: 0704				DEC 07	SUNSET: 1722													
03	CLR	NC	6.00 BR	45	45	45	100	0	00	30.02	30.14	03	OVC	003	2.00 BR	68	68	68	100	3	18	29.94	30.06				
06	FEW	NC	6.00 BR	44	44	44	100	0	00	30.03	30.15	06	OVC	004	1.00 -RA BR	68	68	68	100	3	15	29.92	30.03				
09	OVC	250	3.00 BR	48	48	48	100	0	00	30.09	30.21	09	OVC	005	5.00 BR	70	69	69	97	5	20	29.94	30.06				
12	BKN	250	10.00	63	56	59	78	7	02	30.08	30.19	12	OVC	041	10.00	75	67	70	76	8	20	29.91	30.03				
15	OVC	110	10.00	67	53	59	61	3	08	30.04	30.16	15	OVC	085	10.00	76	66	70	72	3	20	29.84	29.95				
18	BKN	120	10.00	59	56	57	90	0	00	30.05	30.17	18	BKN	075	10.00	73	69	70	87	8	12	29.84	29.95				
21	BKN	090	10.00	58	55	56	90	0	00	30.10	30.22	21	BKN	130	10.00	70	67	68	90	6	17	29.86	29.98				
24	BKN	085	10.00 -RA	57	55	56	93	9	02	30.04	30.15	24	BKN	095	10.00	68	67	67	96	3	18	29.85	29.97				
SUNRISE: 0701				DEC 02	SUNSET: 1721				SUNRISE: 0705				DEC 08	SUNSET: 1722													
03	BKN	100	6.00 BR	56	56	56	100	6	01	30.08	30.20	03	BKN	095	8.00	67	66	66	97	0	00	29.82	29.93				
06	OVC	033	4.00 RA BR	55	55	55	100	5	15	30.12	30.24	06	OVC	016	9.00	67	67	67	100	0	00	29.83	29.94				
09	OVC	120	8.00 -RA	56	54	55	93	5	18	30.11	30.22	09	OVC	006	2.00 RA BR	53	52	52	96	8	34	29.96	30.08				
12	OVC	004	2.00 RA BR	56	56	56	100	5	33	30.15	30.27	12	OVC	075	10.00	55	52	53	90	8	34	29.99	30.10				
15	OVC	009	6.00 -RA BR	56	56	56	100	8	06	30.08	30.19	15	OVC	060	10.00 -RA	52	49	50	89	8	33	30.02	30.14				
18	OVC	017	7.00 -RA	56	56	56	100	0	00	30.09	30.21	18	OVC	110	10.00 -RA	50	48	49	93	8	33	30.05	30.17				
21	OVC	120	9.00	56	54	55	93	9	06	30.08	30.20	21	OVC	110	10.00	49	43	46	80	12	35	30.09	30.21				
24	OVC	020	10.00	55	55	55	100	3	01	30.10	30.22	24	BKN	250	10.00	49	39	44	69	7	32	30.12	30.24				
SUNRISE: 0701				DEC 03	SUNSET: 1721				SUNRISE: 0706				DEC 09	SUNSET: 1722													
03	BKN	250	8.00	54	53	53	97	6	13	30.06	30.18	03	BKN	120	10.00	48	36	43	63	8	34	30.10	30.21				
06	BKN	075	8.00	54	53	53	97	5	08	30.06	30.17	06	OVC	130	10.00	45	33	40	63	9	33	30.10	30.22				
09	OVC	027	8.00	60	56	58	86	6	13	30.09	30.21	09	BKN	130	10.00	45	34	40	66	7	35	30.13	30.24				
12	OVC	039	9.00	68	63	65	84	8	14	30.06	30.18	12	BKN	250	10.00	54	38	46	55	8	33	30.10	30.22				
15	OVC	023	10.00	70	65	67	84	9	14	30.02	30.13	15	OVC	090	10.00	57	36	47	45	8	29	30.03	30.14				
18	OVC	021	10.00	68	64	66	87	8	12	30.02	30.13	18	SCT	NC	10.00	50	38	44	63	6	32	30.03	30.15				
21	BKN	250	9.00	65	63	64	93	8	13	30.04	30.15	21	OVC	090	10.00	50	40	45	68	3	33	30.05	30.17				
24	OVC	028	8.00	67	65	66	93	8	13	30.04	30.15	24	OVC	080	10.00	48	42	45	80	3	31	30.05	30.17				
SUNRISE: 0702				DEC 04	SUNSET: 1721				SUNRISE: 0707				DEC 10	SUNSET: 1722													
03	OVC	033	7.00	65	65	65	100	7	12	30.02	30.14	03	FEW	NC	10.00	42	41	42	96	5	29	30.03	30.14				
06	VV	001	0.25 FG	61	61	61	100	5	07	30.03	30.14	06	CLR	NC	10.00	40	38	39	93	7	31	30.04	30.16				
09	VV	001	0.00 FG	64	64	64	100	8	10	30.07	30.18	09	BKN	250	10.00	47	39	43	74	6	35	30.09	30.20				
12	BKN	022	10.00	74	66	69	76	14	14	30.03	30.14	12	SCT	NC	10.00	57	31	45	37	8	36	30.05	30.16				
15	BKN	250	10.00	75	67	70	76	17	11	29.98	30.09	15	FEW	NC	10.00	61	28	46	29	7	35	29.97	30.08				
18	BKN	250	10.00	70	66	67	87	15	13	29.99	30.11	18	SCT	NC	10.00	48	40	44	74	0	00	29.97	30.09				
21	OVC	008	5.00 BR	68	67	67	96	10	13	30.02	30.14	21	FEW	NC	10.00	44	40	42	85	0	00	30.00	30.11				
24	OVC	005	4.00 BR	68	68	68	100	8	13	30.02	30.13	24	SCT	NC	10.00	43	40	42	89	0	00	29.99	30.10				
SUNRISE: 0703				DEC 05	SUNSET: 1722				SUNRISE: 0707				DEC 11	SUNSET: 1723													
03	OVC	003	3.00 BR	68	68	68	100	7	13	30.00	30.11	03	OVC	050	10.00	46	43	45	89	5	04	29.95	30.07				
06	OVC	003	2.00 BR	68	68	68	100	6	15	30.01	30.12	06	OVC	055	10.00	49	45	47	86	5	05	29.95	30.06				
09	OVC	005	3.00 BR	70	69	69	97	8	15	30.06	30.17	09	OVC	060	10.00	52	44	48	75	7	08	29.98	30.10				
12	BKN	039	10.00	77	68	71	74	17	14	30.05	30.16	12	OVC	060	8.00 -RA	54	51	52	90	12	09	29.94	30.06				
15	BKN	250	10.00	79	68	72	69	13	15	30.00	30.11	15	OVC	005	1.00 +RA BR	56	55	55	97	10	10	29.86	29.98				
18	SCT	NC	9.00	73	70	71	90	12	14	30.03	30.15	18	OVC	005	1.00 +RA BR	57	57	57	100	9	07	29.84	29.95				
21	BKN	075	5.00 BR	70	70	70	100	6	14	30.08	30.20	21	OVC	005	3.00 -RA BR	61	61	61	100	6	08	29.82	29.93				
24	OVC	009	4.00 BR	70	70	70	100	5	11	30.08	30.20	24	OVC	014	5.00 RA BR	70	70	70	100	6	21	29.80	29.91				
SUNRISE: 0704				DEC 06	SUNSET: 1722				SUNRISE: 0708				DEC 12	SUNSET: 1723													
03	OVC	005	4.00 BR	70	70	70	100	3	15	30.06	30.18	03	OVC	019	10.00 -RA	71	70	70	96	13	17	29.76	29.88				
06	OVC	009	2.00 BR	68	68	68	100	3	15	30.06	30.17	06	OVC	014	10.00	72	70	71	94	7	18	29.76	29.88				
09	OVC	006	1.50 BR	70	70	70	100	0	00	30.09	30.20	09	OVC	022	10.00	73	70	71	90	12	17	29.78	29.90				
12	BKN	250	10.00	76	68	71	77	5	26	30.06	30.17	12	OVC	019	10.00	74	70	71	88	7	18	29.77	29.88				
15	OVC	090	10.00	78	66	70	67	3	23	29.98	30.09	15	OVC	045	10.00	74	69	71	85	7	20	29.76	29.88				
18	BKN	070	9.00	72	70	71	94	8	14	29.97	30.09	18	OVC	018	10.00	72	69	70	91	6	23	29.80	29.91				
21	FEW	NC	10.00	69	67	68	93	5	18	29.99	30.10	21	OVC	060	8.00	68	68	68	100	3	32	29.84	29.96				
24	OVC	002	0.25 FG	67	67	67	100	5	18	29.97	30.09	24	OVC	065	8.00 -RA	67	66	66	97	0	00	29.84	29.95				

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX DECEMBER 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: 0709 DEC 13					SUNSET: 1723					SUNRISE: 0712 DEC 19					SUNSET: 1725														
03	OVC	050	7.00		66	65	65	96	3	02	29.79	29.91	03	FEW	NC	10.00		48	46	47	93	3	25	29.90	30.02				
06	OVC	050	7.00		65	64	64	97	5	01	29.76	29.87	06	CLR	NC	10.00		49	44	47	83	10	33	29.96	30.08				
09	OVC	006	0.50	+TSRA FG BR	64	64	64	100	14	09	29.72	29.83	09	FEW	NC	10.00		52	39	46	61	12	33	30.07	30.19				
12	OVC	002	2.50		66	66	66	100	5	34	29.67	29.78	12	FEW	NC	10.00		60	37	49	42	13	35	30.10	30.22				
15	OVC	011	10.00		52	50	51	93	17	33	29.76	29.87	15	FEW	NC	10.00		62	37	50	40	18	33	30.08	30.19				
18	SCT	NC	10.00		51	47	49	86	8	32	29.83	29.95	18	CLR	NC	10.00		54	36	46	51	7	35	30.12	30.24				
21	CLR	NC	10.00		49	46	47	90	7	32	29.92	30.03	21	CLR	NC	10.00		48	37	43	66	6	35	30.19	30.30				
24	CLR	NC	10.00		46	44	45	93	6	30	29.94	30.05	24	CLR	NC	10.00		42	37	40	82	3	31	30.21	30.32				
SUNRISE: 0709 DEC 14					SUNSET: 1723					SUNRISE: 0713 DEC 20					SUNSET: 1726														
03	CLR	NC	10.00		43	43	43	100	3	23	29.94	30.06	03	CLR	NC	10.00		37	36	37	96	0	00	30.23	30.35				
06	CLR	NC	10.00		42	42	42	100	0	00	29.95	30.07	06	CLR	NC	10.00		36	35	36	97	0	00	30.26	30.37				
09	SCT	NC	10.00		47	46	47	97	6	25	30.00	30.12	09	CLR	NC	10.00		44	38	41	79	6	02	30.31	30.42				
12	SCT	NC	10.00		58	44	51	60	3	VR	29.97	30.09	12	CLR	NC	10.00		57	35	47	44	0	00	30.29	30.40				
15	SCT	NC	10.00		62	42	52	48	5	12	29.89	30.00	15	CLR	NC	10.00		62	37	50	40	8	09	30.22	30.33				
18	SCT	NC	10.00		52	47	49	83	0	00	29.89	30.01	18	FEW	NC	10.00		52	40	46	64	7	09	30.22	30.34				
21	BKN	250	10.00		52	47	49	83	0	00	29.93	30.05	21	CLR	NC	10.00		44	42	43	93	0	00	30.24	30.36				
24	BKN	250	10.00		48	47	47	96	0	00	29.91	30.02	24	CLR	NC	10.00		40	40	40	100	0	00	30.23	30.35				
SUNRISE: 0710 DEC 15					SUNSET: 1724					SUNRISE: 0713 DEC 21					SUNSET: 1726														
03	OVC	060	10.00		51	49	50	92	0	00	29.91	30.02	03	CLR	NC	10.00		37	37	37	100	0	00	30.19	30.31				
06	OVC	033	10.00		53	50	51	89	5	04	29.92	30.03	06	CLR	NC	10.00		37	37	37	100	0	00	30.18	30.30				
09	OVC	038	10.00	-RA	56	51	53	84	10	09	29.95	30.06	09	CLR	NC	9.00		46	43	45	89	0	00	30.21	30.33				
12	OVC	120	9.00		66	61	63	84	14	12	29.88	30.00	12	FEW	NC	10.00		62	51	56	67	14	15	30.17	30.28				
15	OVC	012	9.00		69	65	66	87	16	13	29.80	29.92	15	BKN	041	10.00		65	52	58	63	14	15	30.06	30.18				
18	OVC	009	7.00		69	67	68	93	15	15	29.82	29.94	18	FEW	NC	10.00		61	53	57	75	14	13	30.03	30.15				
21	OVC	009	8.00		70	68	69	93	16	14	29.85	29.96	21	SCT	NC	10.00		58	54	56	87	13	12	30.00	30.11				
24	OVC	005	5.00	-RA BR	70	70	70	100	15	14	29.84	29.95	24	OVC	038	10.00		55	55	55	100	0	00	29.97	30.09				
SUNRISE: 0710 DEC 16					SUNSET: 1724					SUNRISE: 0714 DEC 22					SUNSET: 1727														
03	OVC	007	6.00	BR	71	70	70	96	12	14	29.80	29.92	03	OVC	055	2.50	BR	57	57	57	100	3	13	29.91	30.03				
06	OVC	014	10.00		73	70	71	90	10	16	29.79	29.91	06	OVC	049	8.00		58	58	58	100	5	15	29.87	29.98				
09	OVC	020	10.00		74	70	71	88	13	17	29.82	29.93	09	SCT	NC	10.00		68	63	65	84	10	17	29.90	30.01				
12	OVC	020	9.00	-RA	74	72	73	94	10	17	29.78	29.89	12	OVC	044	8.00	-TSRA	70	66	67	87	5	22	29.89	30.00				
15	OVC	015	2.00	-RA BR	74	73	73	97	16	16	29.68	29.79	15	OVC	022	10.00		71	68	69	90	3	VR	29.79	29.91				
18	OVC	013	8.00	-RA	74	72	73	94	14	18	29.68	29.80	18	OVC	006	7.00	-RA	67	67	67	100	3	16	29.79	29.91				
21	OVC	038	8.00		65	62	63	90	3	VR	29.78	29.89	21	OVC	001	0.50	BR	65	65	65	100	5	32	29.83	29.95				
24	OVC	009	10.00		61	60	60	97	7	31	29.82	29.93	24	FEW	NC	10.00		59	55	57	87	7	33	29.89	30.00				
SUNRISE: 0711 DEC 17					SUNSET: 1725					SUNRISE: 0714 DEC 23					SUNSET: 1727														
03	OVC	019	10.00		59	56	57	90	7	30	29.85	29.97	03	FEW	NC	10.00		52	41	47	66	8	35	29.93	30.04				
06	BKN	100	10.00		58	55	56	90	8	29	29.89	30.00	06	SCT	NC	10.00		47	36	42	66	5	36	29.97	30.09				
09	BKN	015	10.00		56	51	53	84	12	30	29.96	30.08	09	SCT	NC	10.00		50	33	43	52	10	02	30.06	30.17				
12	BKN	019	10.00		60	51	55	72	12	29	29.98	30.09	12	SCT	NC	10.00		58	29	45	33	8	35	30.07	30.18				
15	FEW	NC	10.00		65	49	56	56	10	33	29.94	30.06	15	FEW	NC	10.00		61	27	46	27	9	03	30.05	30.16				
18	CLR	NC	10.00		54	48	51	80	5	30	29.95	30.07	18	FEW	NC	10.00		49	35	43	59	3	35	30.11	30.22				
21	CLR	NC	10.00		51	45	48	80	5	28	30.00	30.12	21	CLR	NC	10.00		46	31	40	56	7	33	30.15	30.26				
24	CLR	NC	10.00		45	44	45	97	5	28	30.02	30.14	24	CLR	NC	10.00		45	29	38	54	8	34	30.18	30.29				
SUNRISE: 0712 DEC 18					SUNSET: 1725					SUNRISE: 0715 DEC 24					SUNSET: 1728														
03	CLR	NC	9.00		42	42	42	100	0	00	29.99	30.11	03	CLR	NC	10.00		40	28	35	63	6	34	30.18	30.29				
06	CLR	NC	10.00		39	39	39	100	0	00	29.97	30.08	06	FEW	NC	10.00		35	27	32	72	7	34	30.17	30.29				
09	SCT	NC	10.00		51	44	48	77	7	12	29.98	30.10	09	SCT	NC	10.00		40	26	35	58	6	02	30.21	30.33				
12	BKN	250	10.00		62	43	52	50	5	15	29.95	30.07	12	BKN	250	10.00		48	17	37	29	10	34	30.16	30.28				
15	BKN	250	10.00		65	38	52	37	3	VR	29.86	29.98	15	SCT	NC	10.00		54	16	40	22	12	01	30.03	30.15				
18	BKN	250	10.00		59	50	54	72	7	16	29.85	29.97	18	BKN	250	10.00		45	29	38	54	0	00	30.06	30.18				
21	BKN	250	10.00		55	48	51	77	5	17	29.88	29.99	21	SCT	NC	10.00		37	29	34	73	0	00	30.09	30.20				
24	SCT	NC	10.00		47	46	46	97	0	00	29.89	30.01	24	OVC	100	10.00		43	26	36	51	8	34	30.09	30.21				

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX

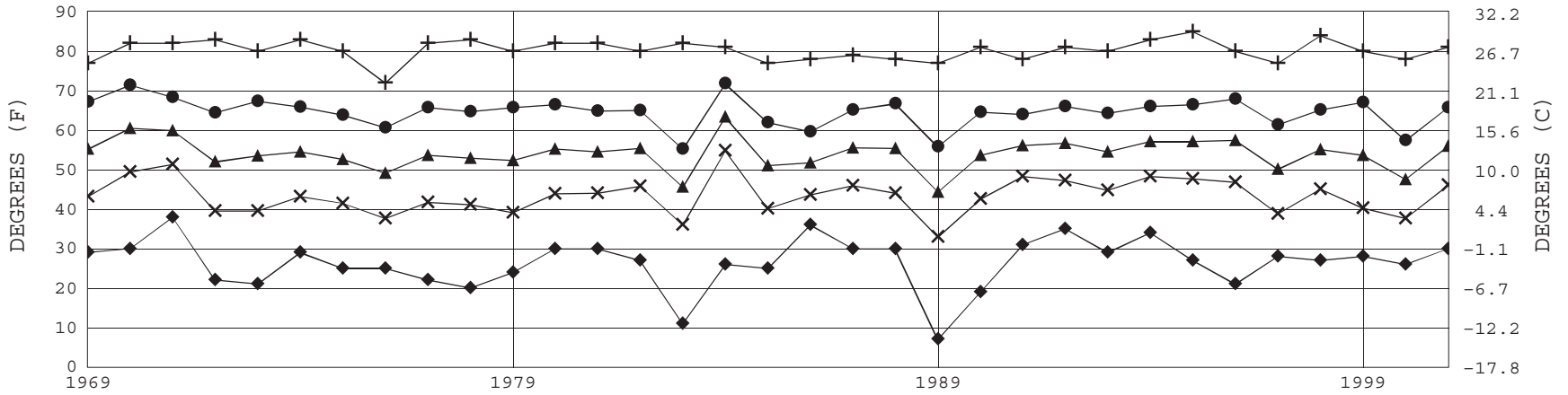
DECEMBER 2001

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	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
SUNRISE: 0715 DEC 25 SUNSET: 1728												SUNRISE: 0717 DEC 31 SUNSET: 1732														
03	OVC	110		10.00	43	21	35	42	7	35	30.10	30.22	03	OVC	046		10.00	-RA	38	33	36	83	10	02	30.13	30.25
06	OVC	080		10.00	42	22	35	45	6	34	30.12	30.24	06	OVC	040		10.00		38	27	34	65	8	36	30.13	30.25
09	BKN	060		10.00	42	28	37	58	5	34	30.17	30.29	09	OVC	050		10.00		39	25	34	57	13	03	30.18	30.30
12	FEW	NC		10.00	50	21	39	32	12	30	30.12	30.24	12	OVC	060		10.00		41	27	36	57	12	02	30.15	30.27
15	FEW	NC		10.00	53	17	39	24	8	32	30.05	30.16	15	OVC	060		10.00		44	27	37	51	10	03	30.10	30.22
18	CLR	NC		10.00	42	32	38	68	0	00	30.04	30.15	18	OVC	060		10.00		43	27	37	53	7	01	30.10	30.22
21	CLR	NC		10.00	36	32	34	86	3	24	30.07	30.18	21	OVC	060		10.00		43	30	38	60	5	33	30.12	30.24
24	CLR	NC		10.00	34	30	32	85	5	20	30.06	30.17	24	OVC	065		10.00		42	29	37	60	10	02	30.11	30.23
SUNRISE: 0715 DEC 26 SUNSET: 1729												3-HOURLY OBSERVATION NOTES														
03	CLR	NC		10.00	40	25	34	55	5	24	30.02	30.14	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.													
06	CLR	NC		10.00	37	28	34	70	7	28	30.07	30.18	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.													
09	FEW	NC		10.00	43	28	37	56	9	32	30.14	30.26	NC = No ceiling detected.													
12	FEW	NC		10.00	51	18	39	27	14	32	30.12	30.24	& = Original observation contained additional weather elements.													
15	FEW	NC		10.00	54	16	40	22	14	31	30.07	30.18	See page 3 for additional notes.													
18	CLR	NC		10.00	44	27	37	51	3	28	30.07	30.19														
21	CLR	NC		10.00	36	30	34	79	0	00	30.08	30.19														
24	CLR	NC		10.00	32	29	31	88	0	00	30.06	30.18														
SUNRISE: 0716 DEC 27 SUNSET: 1730												SUMMARY BY HOUR														
03	CLR	NC		10.00	31	29	30	92	0	00	30.03	30.14	AVERAGES													
06	CLR	NC		10.00	32	29	31	88	0	00	30.00	30.12	RESULTANT WIND (MPH)													
09	CLR	NC		9.00	42	31	38	65	0	00	30.02	30.14	HOUR (LST)													
12	FEW	NC		10.00	60	34	48	38	5	VR	29.95	30.07	CEILOMETER													
15	SCT	NC		10.00	64	34	50	33	9	18	29.86	29.97	EFF CLD AMT													
18	OVC	055		10.00	57	41	49	55	10	16	29.83	29.94	DRY BULB													
21	OVC	046		10.00	55	45	50	69	5	13	29.82	29.93	DEW POINT													
24	OVC	045		10.00	53	46	50	77	0	00	29.79	29.91	WET BULB													
SUNRISE: 0716 DEC 28 SUNSET: 1730												PRESSURE (INCHES, HG)														
03	OVC	026		10.00	51	50	51	96	0	00	29.75	29.86	STATION													
06	OVC	016		10.00	51	51	51	100	0	00	29.74	29.86	SEA LEVEL													
09	SCT	NC		10.00	53	51	52	93	0	00	29.80	29.92	VISIBILITY (MILES)													
12	SCT	NC		10.00	64	50	56	61	0	00	29.77	29.89	WIND SPEED (MPH)													
15	BKN	250		10.00	69	41	55	36	6	26	29.72	29.84	SPEED													
18	BKN	250		10.00	53	49	51	86	0	00	29.73	29.85	DIRECTION													
21	CLR	NC		8.00	56	54	55	93	6	17	29.75	29.86														
24	SCT	NC		7.00	48	48	48	100	0	00	29.78	29.90														
SUNRISE: 0716 DEC 29 SUNSET: 1731																										
03	BKN	001		4.00	43	43	43	100	0	00	29.79	29.91														
06	VV	001		1.00	40	40	40	100	0	00	29.82	29.94														
09	SCT	NC		7.00	45	45	45	100	0	00	29.93	30.05														
12	SCT	NC		10.00	63	43	53	48	9	06	29.94	30.05														
15	SCT	NC		10.00	66	44	55	45	6	01	29.93	30.04														
18	SCT	NC		10.00	55	40	48	57	6	01	29.97	30.09														
21	SCT	NC		10.00	50	36	44	59	7	35	30.04	30.16														
24	FEW	NC		10.00	43	34	39	71	7	33	30.06	30.17														
SUNRISE: 0717 DEC 30 SUNSET: 1732																										
03	CLR	NC		10.00	40	32	37	73	5	01	30.07	30.19														
06	FEW	NC		10.00	36	32	34	86	6	03	30.08	30.20														
09	OVC	036		10.00	42	32	38	68	13	07	30.14	30.25														
12	OVC	041		10.00	48	28	40	46	12	07	30.11	30.22														
15	OVC	040		10.00	51	31	42	46	7	08	30.05	30.17														
18	OVC	040		10.00	47	31	40	54	9	36	30.08	30.20														
21	OVC	044		10.00	46	33	40	61	7	03	30.12	30.23														
24	OVC	042		10.00	45	29	38	54	14	04	30.11	30.23														

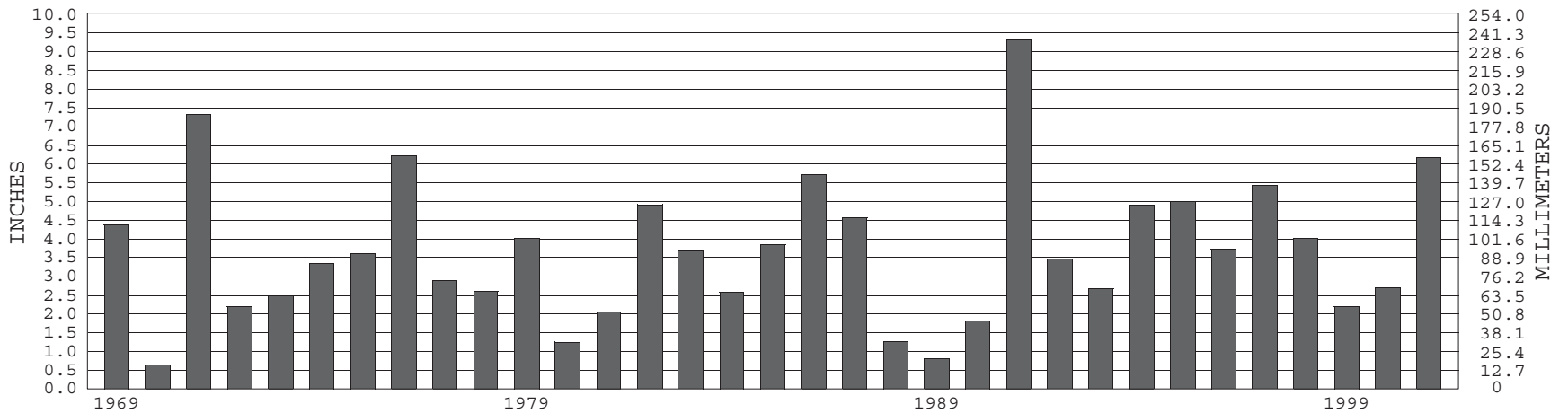
HOUSTON, TX DECEMBER TEMPERATURES



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

Long-Term (1969-2001) Mean: 54.1 1961-1990 Normal: 53.5

HOUSTON, TX DECEMBER PRECIPITATION



Long-Term (1969-2001) Mean Monthly Total: 3.69

1961-1990 Normal: 3.45



DECEMBER 2001

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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