



MAY 2002

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

MAY 2002
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	91	75	83	11	71	75	0	18	HZ	0		0.0	0.00	29.62	29.73	10.0	18	10.8	25	15	18	16	01	
02	90	76	83	10	74	77	0	18	BR	0		0.0	0.00	29.63	29.74	8.3	17	8.4	25	15	21	16	02	
03	89	77	83	10	75	77	0	18	BR	0		0.0	0.00	29.72	29.83	5.7	15	7.0	17	17	14	16	03	
04	87	72	80	7	75	76	0	15	RA DZ BR HZ	0		0.0	0.07	29.88	29.99	4.1	07	7.8	18	09	15	13	04	
05	89	76	83	10	74	76	0	18		0		0.0	0.00	29.96	30.07	9.9	13	10.7	26	13	22	13	05	
06	89	75	82	8	71	74	0	17	BR HZ	0		0.0	0.00	29.91	30.02	10.5	16	10.9	25	14	20	15	06	
07	91	77	84	10	73	76	0	19		0		0.0	0.00	29.85	29.96	13.6	17	13.2	24	16	20	15	07	
08	90	78	84	10	72	76	0	19		0		0.0	0.00	29.77	29.88	13.1	16	13.2	31	15	26	15	08	
09	89	77	83	9	73	76	0	18		0		0.0	0.00	29.83	29.94	10.1	15	10.6	22	13	20	13	09	
10	90	75	83	8	72	75	0	18		0		0.0	0.00	29.92	30.03	11.1	14	11.5	29	13	23	15	10	
11	91*	76	84	9	71	75	0	19		0		0.0	0.00	29.90	30.01	14.3	16	14.5	30	14	24	13	11	
12	90	77	84*	9	73	76	0	19		0		0.0	0.00	29.90	30.01	12.6	16	12.7	29	16	24	15	12	
13	80	61	71	-4	59	64	0	6	RA	0		0.0	0.03	30.02	30.13	9.9	35	10.5	31	33	26	33	13	
14	79	58	69	-6	51	59	0	4		0		0.0	0.00	30.02	30.14	5.0	05	6.9	21	08	17	08	14	
15	84	59	72	-4	61	66	0	7		0		0.0	0.00	29.93	30.04	8.8	13	9.7	26	14	22	13	15	
16	90	72	81	5	72	75	0	16		0		0.0	0.00	29.83	29.95	11.1	16	11.2	29	15	25	15	16	
17	79	67	73	-4	70	70	0	8	TS TSRA RA BR	0		0.0	0.91	29.80	29.91	2.0	11	10.0	31	15	23	15	17	
18	73	59	66	-11	57	61	0	1		0		0.0	0.00	29.98	30.09	11.4	01	11.6	24	01	21	36	18	
19	76	52*	64*	-13	48	55	1	0		0		0.0	0.00	30.07	30.18	7.0	04	7.7	20	02	16	05	19	
20	77	54	66	-11	50	57	0	1		0		0.0	0.00	30.08	30.19	5.6	10	7.2	22	09	18	09	20	
21	80	57	69	-8	55	61	0	4		0		0.0	0.00	30.05	30.16	6.9	13	8.3	23	15	20	15	21	
22	81	62	72	-5	63	66	0	7	BR	0		0.0	0.00	29.98	30.09	10.9	13	11.3	28	11	23	13	22	
23	82	68	75	-2	65	69	0	10		0		0.0	0.00	29.90	30.01	12.0	14	12.5	29	14	23	13	23	
24	84	66	75	-2	68	70	0	10	BR	0		0.0	0.00	29.86	29.97	7.8	13	8.0	22	14	18	15	24	
25	89	67	78	0	69	72	0	13	BR	0		0.0	0.00	29.88	29.99	3.4	13	5.5	20	13	17	12	25	
26	89	72	81	3	70	73	0	16		0		0.0	0.00	29.89	30.00	5.2	16	5.8	28	16	24	17	26	
27	88	70	79	1	70	73	0	14	RA BR	0		0.0	T	29.84	29.95	7.9	14	8.4	25	14	21	13	27	
28	85	72	79	1	71	73	0	14	TSRA RA BR	0		0.0	0.23	29.79	29.90	5.0	15	7.6	24	15	21	14	28	
29	81	66	74	-4	69	71	0	9	RA BR	0		0.0	0.18	29.74	29.85	0.7	14	3.9	29	01	24	01	29	
30	90	68	79	0	69	71	0	14	TS TSRA RA BR	0		0.0	0.24	29.65	29.76	4.5	35	6.1	41*	01	35*	02	30	
31	83	66	75	-4	70	71	0	10	RA BR	0		0.0	0.13	29.71	29.82	5.3	03	6.0	28	13	23	13	31	
MONTHLY AVERAGES										TOTALS->				<- MONTHLY AVERAGES										
DEPARTURE FROM NORMAL														-3.36										
SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																								
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 0.91 DATE: 17				SEA LEVEL PRESSURE				DATE TIME							
MONTHLY TOTAL DEPARTURE									GREATEST 24-HR SNOWFALL: 0.0 DATE:				MAXIMUM				: 30.25 20 0853							
SEASON TO DATE TOTAL DEPARTURE									GREATEST SNOW DEPTH: 0 DATE:				MINIMUM				: 29.66 01 1753							
HEATING: 1 1 1410 -189									NUMBER OF DAYS WITH				MAXIMUM TEMP ≥ 90: 9				MINIMUM TEMP ≤ 32: 0				PRECIPITATION ≥ 0.01 INCH: 7			
COOLING: 380 52 753 179													MAXIMUM TEMP ≤ 32: 0				MINIMUM TEMP ≤ 0: 0				PRECIPITATION ≥ 0.10 INCH: 5			
													THUNDERSTORMS: 3				HEAVY FOG: 0				SNOWFALL ≥ 1.0 INCH: 0			

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX

MAY 2002

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		0.00		
02													02												02		0.00		
03													03												03		0.00		
04			T	0.05	0.02	T	T	T	T				04												04		0.07		
05													05												05		0.00		
06													06												06		0.00		
07													07												07		0.00		
08													08												08		0.00		
09													09												09		0.00		
10													10												10		0.00		
11													11												11		0.00		
12													12												12		0.00		
13				0.03							T		13												13		0.03		
14													14												14		0.00		
15													15												15		0.00		
16													16												16		0.00		
17						T							17												17		0.91		
18							T						18	0.18	0.34	0.13	0.01								18		0.00		
19													19												19		0.00		
20													20												20		0.00		
21													21												21		0.00		
22													22												22		0.00		
23													23												23		0.00		
24													24												24		0.00		
25													25												25		0.00		
26													26												26		0.00		
27													27												27	T	0.00		
28			T	T	T	T	T						28	0.04	0.19										28		0.23		
29													29	T											29		0.18		
30						0.01				0.06	0.12	T	30												30		0.24		
31												T	31												31		0.13		
																		0.22	0.01										
																		0.13	T										

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.12	.17	.20	.20	.21	.28	.35	.41	.48	.53	.62	.71
Ending Date	28	28	28	28	30	17	17	17	17	17	17	17
Ending Time (Hour/Min)	1303	1307	1307	1307	1733	1339	1349	1411	1427	1436	1423	1427

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 1971–2000

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 MAY 2002

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							6.00	10.00	
02							6.00	10.00	
03							5.00	10.00	
04							2.00	10.00	
05							9.00	10.00	
06							2.50	10.00	
07							8.00	10.00	
08							7.00	10.00	
09							7.00	10.00	
10							7.00	10.00	
11							9.00	10.00	
12							9.00	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							3.00	10.00	
18							10.00	10.00	
19							10.00	10.00	
20							9.00	10.00	
21							8.00	10.00	
22							6.00	10.00	
23							10.00	10.00	
24							6.00	10.00	
25							2.50	10.00	
26							7.00	10.00	
27							6.00	10.00	
28							1.00	10.00	
29							2.00	10.00	
30							4.00	10.00	
31							1.50	10.00	
MONTHLY AVGS							7.14	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									
0 4 19									

OBSERVATIONS AT 3-HOURLY INTERVALS

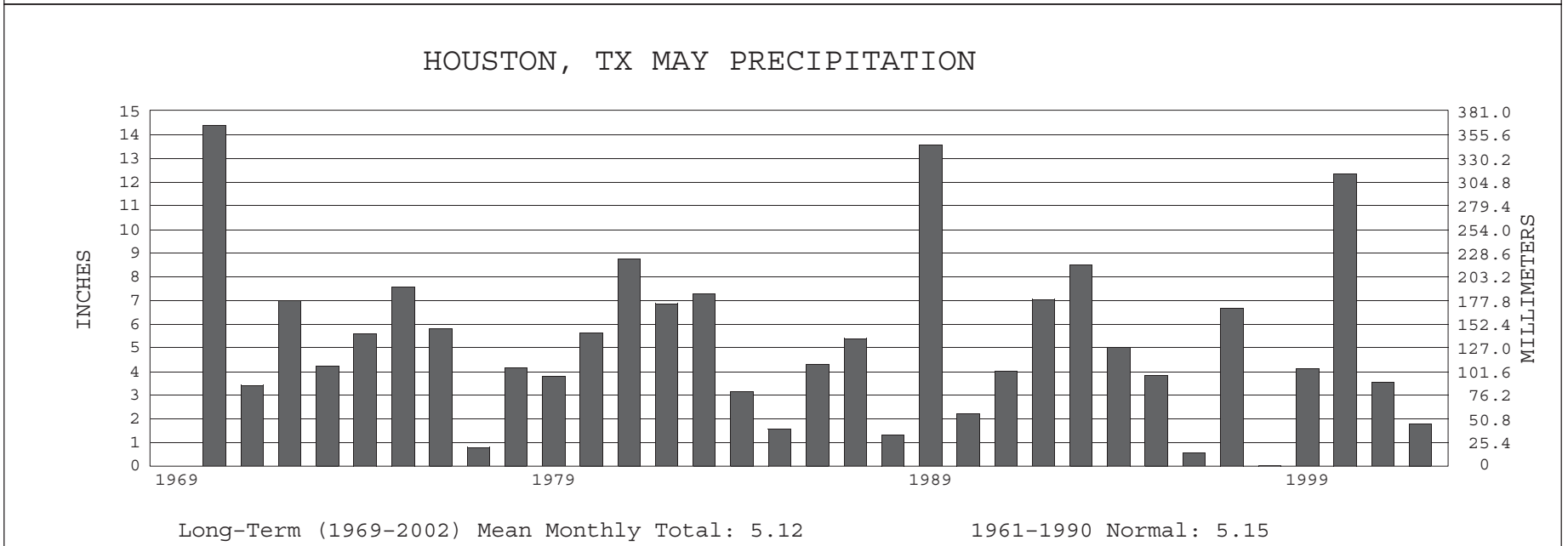
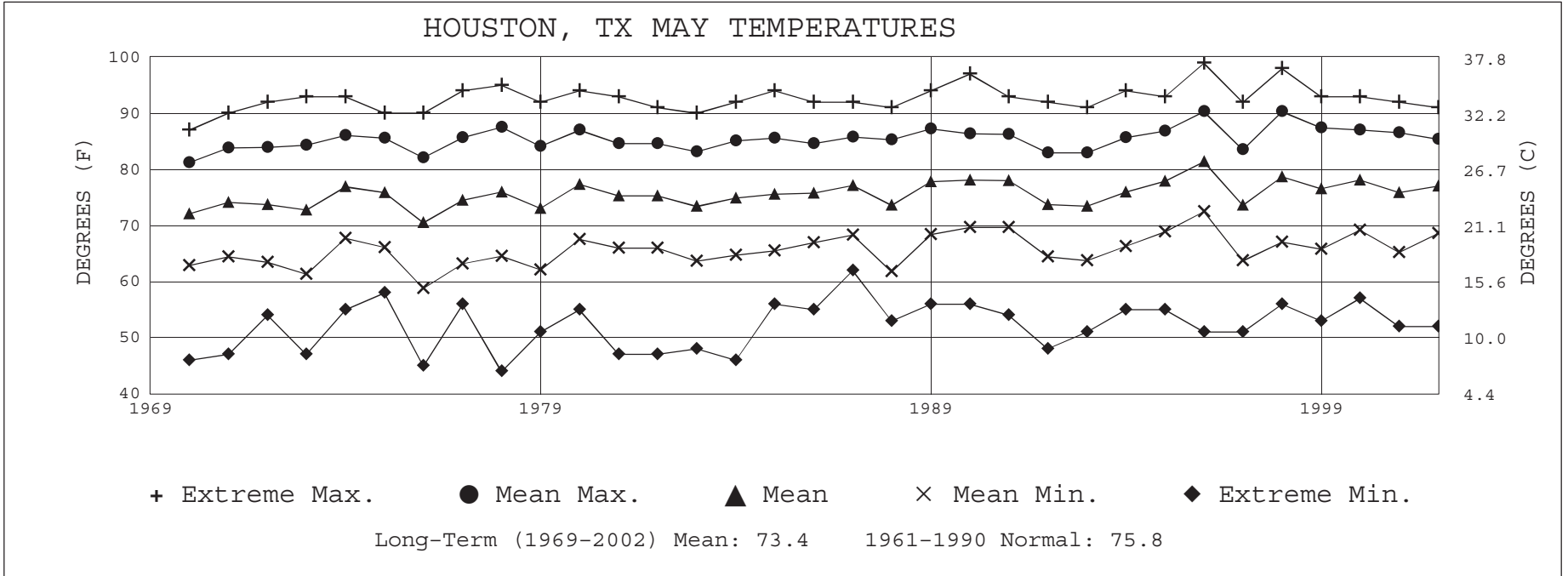
HOUSTON, TX

MAY 2002

IAH

WBAN # 12960

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)													
	SKY COVER	CEILING		OBSERVATION TIME (LST)	EFF CLD AMT Okta		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER		CEILING	OBSERVATION TIME (LST)		EFF CLD AMT Okta	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL										
SUNRISE: 0523							MAY 25							SUNSET: 1913							SUNRISE: 0521							MAY 31							SUNSET: 1917						
03	BKN	250			8.00		70	70	70	100	3	34	29.85	29.96	03	BKN	012			8.00		68	68	68	100	5	35	29.64	29.76												
06	FEW	NC			2.50	BR	67	67	67	100	0	00	29.88	29.99	06	OVC	001			2.00	BR	67	67	67	100	7	36	29.67	29.78												
09	BKN	021			10.00		78	69	72	74	5	VR	29.92	30.04	09	OVC	012			10.00		71	68	69	90	10	03	29.73	29.84												
12	SCT	NC			10.00		85	66	72	53	3	VR	29.91	30.02	12	BKN	032			10.00		78	69	72	74	8	04	29.73	29.85												
15	SCT	NC			10.00		88	66	73	48	8	11	29.84	29.96	15	SCT	NC			10.00		81	69	73	67	10	03	29.70	29.82												
18	SCT	NC			10.00		83	70	74	65	13	13	29.84	29.95	18	BKN	034			10.00	-RA	73	73	73	100	3	31	29.71	29.83												
21	SCT	NC			10.00		77	72	74	85	6	13	29.86	29.98	21	SCT	NC			10.00		74	73	73	97	3	36	29.74	29.85												
24	BKN	250			10.00		74	72	73	94	0	00	29.91	30.03	24	SCT	NC			10.00		73	72	72	96	7	05	29.77	29.89												
SUNRISE: 0523							MAY 26							SUNSET: 1914							3-HOURLY OBSERVATION NOTES																				
03	BKN	250			10.00		73	72	72	96	0	00	29.90	30.01	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	OVC	250			7.00		72	71	71	97	0	00	29.92	30.03	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																										
09	BKN	016			10.00		79	72	74	79	5	14	29.93	30.04	NC = No ceiling detected.																										
12	BKN	045			10.00		86	67	73	53	7	13	29.92	30.03	& = Original observation contained additional weather elements.																										
15	SCT	NC			10.00		84	63	70	49	15	15	29.87	29.98	See page 3 for additional notes.																										
18	BKN	250			10.00		83	70	74	65	13	16	29.83	29.94																											
21	SCT	NC			10.00		77	72	74	85	8	16	29.86	29.97																											
24	SCT	NC			10.00		73	72	72	96	5	16	29.88	29.99																											
SUNRISE: 0522							MAY 27							SUNSET: 1915							SUMMARY BY HOUR																				
03	SCT	NC			10.00		72	71	71	97	0	00	29.86	29.97	AVERAGES																										
06	BKN	250			6.00	BR	70	70	70	100	5	12	29.86	29.98	RESULTANT WIND (MPH)																										
09	BKN	250			10.00		79	69	72	72	7	VR	29.88	29.99	HOUR (LST)																										
12	BKN	045			10.00		86	67	73	53	12	13	29.85	29.96	CEILOMETER																										
15	SCT	NC			10.00		87	68	74	53	13	14	29.81	29.93	EFF CLD AMT																										
18	SCT	NC			10.00		83	70	74	65	16	13	29.76	29.88	DRY BULB																										
21	SCT	NC			10.00		77	70	72	79	8	16	29.81	29.93	DEW POINT																										
24	BKN	250			10.00		74	71	72	91	0	00	29.83	29.95	WET BULB																										
SUNRISE: 0522							MAY 28							SUNSET: 1915							RELATIVE HUMIDITY																				
03	BKN	065			10.00	-RA	73	71	72	94	5	30	29.87	29.98	PRESSURE (INCHES, HG)																										
06	BKN	250			10.00	-RA	73	71	72	94	9	13	29.74	29.85	STATION																										
09	SCT	NC			10.00		80	70	73	71	10	16	29.75	29.87	SEA LEVEL																										
12	BKN	065			10.00		85	68	74	57	9	17	29.82	29.93	VISIBILITY (MILES)																										
15	SCT	NC			10.00		75	73	74	94	17	13	29.75	29.87	WIND SPEED (MPH)																										
18	SCT	NC			10.00		78	71	73	79	9	12	29.74	29.85	SPEED																										
21	SCT	NC			10.00		76	72	73	88	7	16	29.76	29.87	DIRECTION																										
24	SCT	NC			10.00		74	71	72	91	5	19	29.78	29.90																											
SUNRISE: 0522							MAY 29							SUNSET: 1916																											
03	SCT	NC			10.00		72	71	71	97	0	00	29.72	29.84																											
06	BKN	120			10.00		71	71	71	100	7	16	29.74	29.86																											
09	OVC	016			5.00	+RA BR	69	67	68	93	17	35	29.87	29.98																											
12	OVC	130			10.00	-RA	69	68	68	96	3	VR	29.77	29.89																											
15	BKN	130			10.00		79	65	70	62	0	00	29.72	29.84																											
18	BKN	055			10.00		80	68	72	67	0	00	29.68	29.80																											
21	FEW	NC			10.00		74	69	71	85	5	20	29.69	29.80																											
24	FEW	NC			10.00		70	69	69	97	0	00	29.69	29.80																											
SUNRISE: 0522							MAY 30							SUNSET: 1916																											
03	BKN	016			10.00		70	69	69	97	3	19	29.66	29.78																											
06	BKN	045			8.00		69	69	69	100	0	00	29.68	29.79																											
09	FEW	NC			10.00		79	71	74	77	9	31	29.68	29.79																											
12	SCT	NC			10.00		87	66	73	50	9	32	29.65	29.76																											
15	BKN	065			10.00		90	66	74	45	12	34	29.58	29.70																											
18	OVC	037			10.00	-TSRA	71	68	69	90	9	05	29.62	29.74																											
21	BKN	050			10.00		71	70	70	96	5	33	29.64	29.76																											
24	SCT	NC			10.00		69	69	69	100	3	33	29.67	29.78																											





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DIRECTOR

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