



MARCH 2002

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

OAK RIDGE, TN

OAK RIDGE (OQT)
 Lat: 36°01' N Long: 84°14' W Elev (Ground): 913 Feet
 Time Zone: EASTERN WBAN: 53868 ISSN #: -

MARCH 2002
OAK RIDGE, TN

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		0700 LST	1300 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	54	20	37	-6	17	30	28	0					0.00	29.37	30.39	0.8	06	2.5	17	07	10	09	01		
02	50	36	43	0	39	42	22	0	RA BR				0.25	29.01	30.00	2.3	04	3.4	13	07	9	05	02		
03	50	26	38	-6	26	33	27	0	RA BR				0.02	29.05	30.04	6.7	26	8.4	25	28	16	26	03		
04	32	18*	25*	-19	5	19	40	0	SN				T	29.33	30.38	3.6	26	5.9	20	26	15	24	04		
05	52	21	37	-7	16	30	28	0					0.00	29.44	30.48	2.2	22	3.4	16	19	12	19	05		
06	62	27	45	0	22	36	20	0					0.00	29.37	30.38	4.1	21	4.6	20	22	16	21	06		
07	69	38	54	9	28	42	11	0					0.00	29.31	30.30	1.4	22	2.6	16	19	12	20	07		
08	74	35	55	10	31	44	10	0					0.00	29.30	30.28	2.7	19	3.5	20	16	14	17	08		
09	71	42	57	11	43	50	8	0	RA BR				0.26	29.24	30.21	5.8	24	6.9	30	22	22	20	09		
10	52	30	41	-5	11	31	24	0					0.00	29.53	30.54	3.5	36	5.2	15	07	12	01	10		
11	61	28	45	-1	20	36	20	0					0.00	29.28	30.29	1.2	09	3.2	15	05	12	07	11		
12	54	45	50	3	44	46	15	0	RA BR				0.33	29.05	30.03	3.6	05	5.6	23	21	18	20	12		
13	60	48	54	7	50	52	11	0	RA BR				0.03	28.92	29.89	0.9	10	2.6	10	05	8	05	13		
14	74	44	59	12	49	53	6	0	BR				0.00	29.01	29.98	2.3	22	3.4	14	20	10	19	14		
15	74	52	63	15	53	57	2	0	RA				T	29.04	29.99	4.0	23	5.5	16	19	14	20	15		
16	77	54	66*	18	58	61	0	1	RA BR				0.18	29.07	30.02	0.4	34	4.8	16	27	12	06	16		
17	62	54	58	10	58	58	7	0	RA BR				2.77	29.10	30.06	2.4	07	3.0	15	07	13	06	17		
18	64	55	60	11	56	57	5	0	RA BR				2.53	29.19	30.15	3.5	05	3.8	20	06	15	06	18		
19	73	54	64	15	55	58	1	0					0.00	29.09	30.05	1.6	23	4.4	22	23	15	21	19		
20	65	53	59	10	53	56	6	0	RA BR				0.17	29.02	29.98	1.4	33	4.8	22	23	14	22	20		
21	65	33	49	-1	37	46	16	0					0.00	29.14	30.12	4.4	35	7.2	24	01	17	36	21		
22	44	23	34	-16	9	26	31	0	SN				T	29.38	30.40	2.5	34	5.2	22	33	16	34	22		
23	56	23	40	-10	18	32	25	0					0.00	29.26	30.28	1.3	23	3.0	15	26	12	26	23		
24	70	30	50	0	25	40	15	0					0.00	29.12	30.11	3.2	23	3.9	24	21	17	22	24		
25	75	40	58	7	40	50	7	0					0.00	29.08	30.04	5.3	22	5.5	23	22	16	20	25		
26	68	42	55	4	50	54	10	0	RA BR				0.25	29.02	29.98	5.3	23	7.4	30	22	21	22	26		
27	44	32	38	-13	30	35	27	0					0.00	29.24	30.25	5.6	04	6.6	16	06	14	06	27		
28	66	29	48	-4	31	39	17	0	BR				0.00	29.13	30.13	0.5	16	2.3	13	20	9	19	28		
29	78*	45	62	10	44	53	3	0	RA BR				0.23	28.97	29.92	8.5	22	9.3	38*	22	25*	20	29		
30	61	50	56	4	52	53	9	0	RA BR				1.09	29.03	29.99	3.1	05	5.1	14	05	12	05	30		
31	53	50	52	-1	49	50	13	0	RA BR				0.71	29.00	29.98	3.6	06	4.0	26	28	17	28	31		
< MONTHLY AVERAGES										TOTALS-->				8.82	29.16	30.15	0.8	25	4.8	<-- MONTHLY AVERAGES					
1.5				2.3		1.9		<-----DEPARTURE FROM NORMAL----->						3.14		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 4.54 DATE: 17-18				SEA LEVEL PRESSURE				DATE TIME								
MONTHLY TOTAL DEPARTURE									GREATEST 24-HR SNOWFALL:				MAXIMUM				: 30.63 10 0753								
SEASON TO DATE TOTAL DEPARTURE									GREATEST SNOW DEPTH:				MINIMUM				: 29.79 29 1753								
HEATING: 464			-66			3159			-676			NUMBER OF DAYS WITH =>		MAXIMUM TEMP ≥ 90: 0		MINIMUM TEMP ≤ 32: 12		PRECIPITATION ≥ 0.01 INCH : 13							
COOLING: 1			1			1			1			MAXIMUM TEMP ≤ 32 : 1		MINIMUM TEMP ≤ 0 : 0		PRECIPITATION ≥ 0.10 INCH : 11									
												THUNDERSTORMS : 0		HEAVY FOG : 0		SNOWFALL ≥ 1.0 INCH :									

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN

MARCH 2002

OQT

WBAN # 53868

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						0.01	0.04	0.01	0.01			T	02	0.02	0.07	0.01	0.01	T	0.01	0.01	0.01	0.01	0.01	0.01	02		0.25	
03	0.01				T								03												03		0.02	
04		0.01		T	T							T	04												04		T	
05		T		T	T								05												05		0.00	
06													06												06		0.00	
07													07												07		0.00	
08													08												08		0.00	
09													09	0.06	0.17	0.03			T						09		0.26	
10													10												10		0.00	
11													11												11		0.00	
12	T				0.03	0.07	0.08	0.04	0.02	T	T	0.02	12	0.04	T	T									12		0.33	
13		T								0.01	0.01		13												13		0.03	
14		0.01		T									14												14		0.00	
15													15		T										15		T	
16							0.10	0.07	0.01			T	16												16		0.18	
17		T		0.04	0.28	0.23	0.27	0.33	0.12	0.19	0.02	T	17	0.13	0.16	0.12	0.01	0.68	T					17		2.77		
18	0.46	0.77	0.36	0.22	0.23	0.21	0.17	0.08	0.02	0.01			18	T	T								0.01	0.18	18		2.53	
19													19												19		0.00	
20											T	0.06	20	0.01	T	0.02									20		0.17	
21													21												21		0.00	
22	T	T											22												22		T	
23													23												23		0.00	
24													24												24		0.00	
25													25												25		0.00	
26											0.15	0.06	26	T	0.03	T									26		0.25	
27													27												27		0.00	
28													28												28		0.00	
29		T	T										29												29		0.23	
30	0.05	0.01	0.03	0.08		T							30	T	0.19	0.37	0.10	0.10	0.07	0.01	0.01	0.02	0.01	0.05	0.04	0.09	0.09	1.09
31	0.01	0.11	0.01	T	T	0.01	0.03	0.07	0.01			T	31	T	0.01	0.06	0.07	0.07	0.01					T	31		0.71	

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.25	.36	.44	.57	.67	.68	.81	1.01	1.20	1.26	1.51	1.63
Ending Date	17	17	17	17	17	17	18	18	18	18	18	18
Ending Time (Hour/Min)	1626	1626	1630	1627	1637	1637	0128	0148	0151	0151	0240	0302

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	
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 Unknown Precipitation		

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

OAK RIDGE, TN MARCH 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:

ERRATA for Jan & Feb 2002 LCD's: To stay consistent with the Heating Degree Day Season (July 2001–June 2002), NCDC reinstalled the 1961–1990 Heating Degree Day Normals and corrected the Jan & Feb 2002 LCD's. The corrected LCD's are available on NCDC's Website. The 1971–2000 Heating Degree Day Normals will go into effect with the July 2002 LCD. The new Cooling Degree Day Normals went into effect with the Jan 2002 LCD.

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR–SS		MN–MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							10.00	10.00	
02							1.50	10.00	
03							2.50	10.00	
04							9.00	10.00	
05							10.00	10.00	
06							10.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							.00	10.00	
10							10.00	10.00	
11							10.00	10.00	
12							4.00	10.00	
13							6.00	10.00	
14							4.00	10.00	
15							8.00	10.00	
16							1.50	10.00	
17							.75	10.00	
18							1.50	10.00	
19							8.00	10.00	
20							1.00	10.00	
21							8.00	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							8.00	10.00	
25							10.00	10.00	
26							1.75	10.00	
27							9.00	10.00	
28							6.00	10.00	
29							5.00	10.00	
30							1.50	10.00	
31							1.50	10.00	
MONTHLY AVGS							6.39	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 9 16									

OBSERVATIONS AT 3-HOURLY INTERVALS

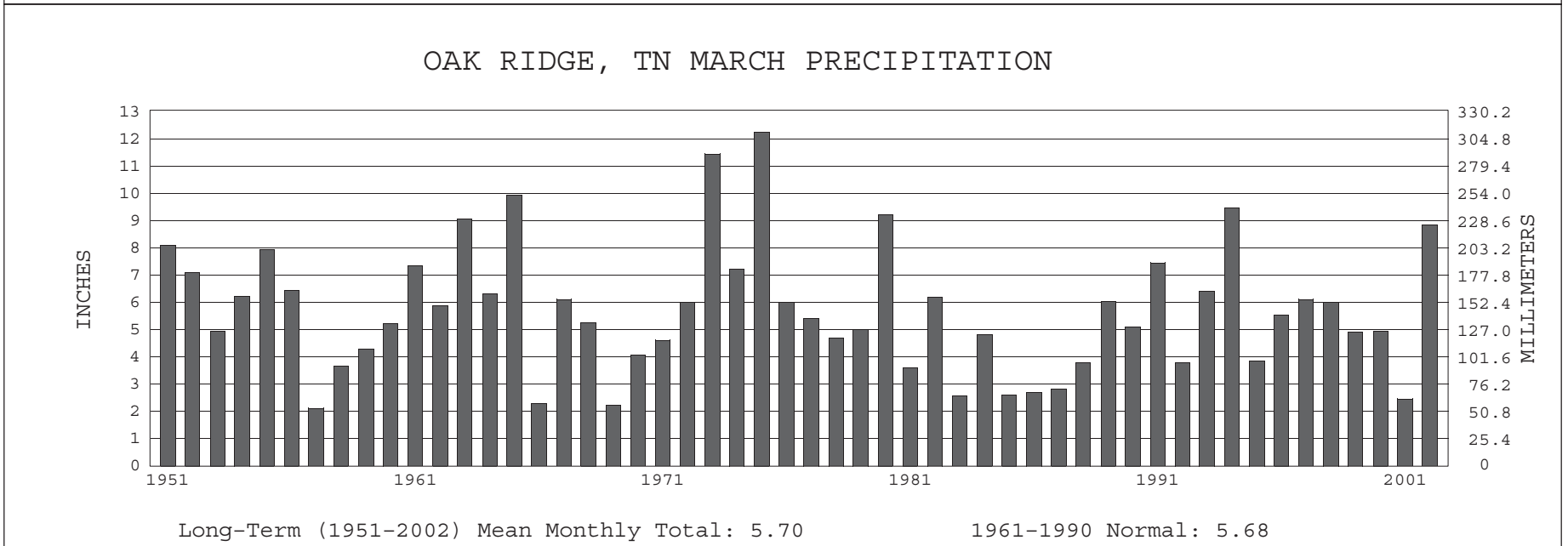
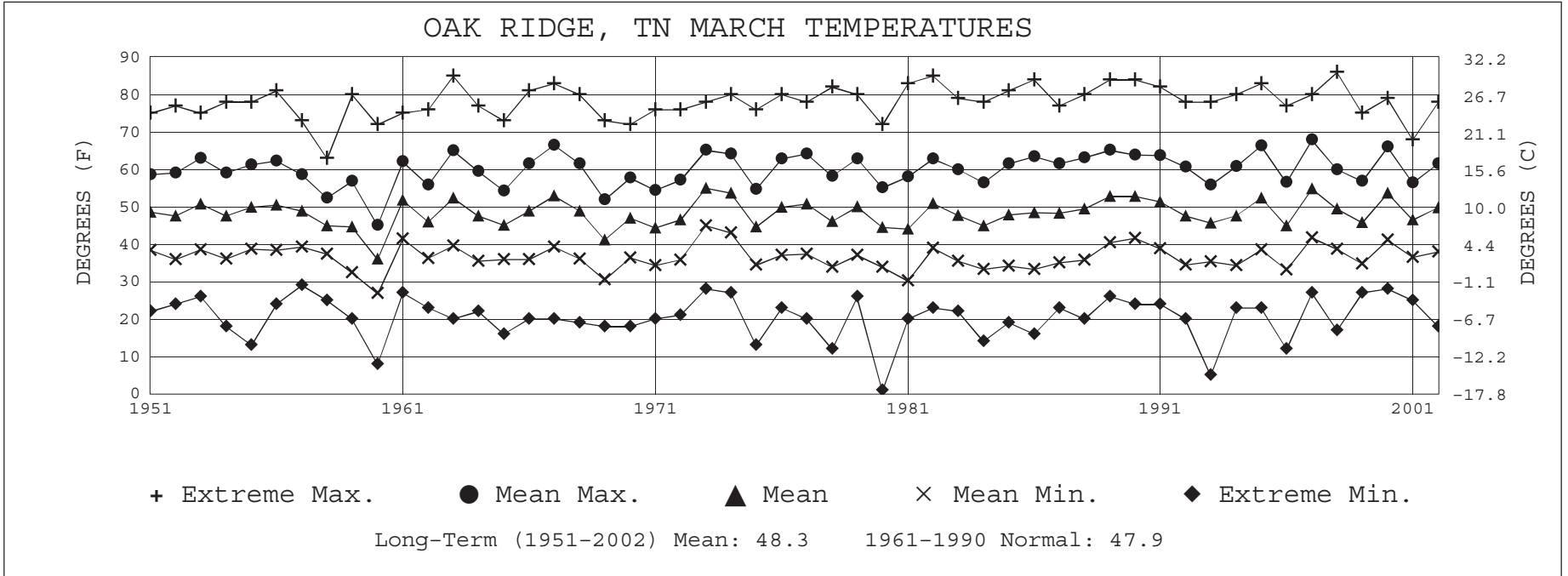
OAK RIDGE, TN

MARCH 2002

OQT

WBAN # 53868

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		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: 0633								MAR 25								SUNSET: 1853								SUNRISE: 0625								MAR 31								SUNSET: 1858							
01	CLR	NC				10.00		51	30	42	45	0	00	29.07	30.03	01	OVC	037				9.00	-RA	51	49	50	92	0	00	29.08	30.05																
04	CLR	NC				10.00		44	34	40	68	0	00	29.06	30.02	04	OVC	019				10.00	-RA	50	47	48	89	6	04	29.03	30.01																
07	CLR	NC				10.00		41	35	38	79	0	00	29.08	30.05	07	OVC	021				9.00	-RA	50	48	49	93	7	05	29.02	29.99																
10	FEW	NC				10.00		62	40	51	44	8	22	29.10	30.07	10	OVC	014				10.00		51	49	50	92	9	05	28.97	29.94																
13	CLR	NC				10.00		73	40	56	30	15	23	29.11	30.07	13	OVC	038				10.00	-RA	52	50	51	93	0	00	28.98	29.95																
16	CLR	NC				10.00		74	44	58	34	14	20	29.05	30.01	16	OVC	050				9.00	-RA	51	50	51	96	3	09	28.97	29.94																
19	CLR	NC				10.00		72	43	56	35	8	22	29.07	30.04	19	OVC	019				10.00		51	50	51	96	3	01	28.97	29.94																
22	FEW	NC				10.00		66	48	56	52	0	00	29.09	30.05	22	OVC	026				10.00		51	50	51	96	0	00	29.02	30.00																
SUNRISE: 0632								MAR 26								SUNSET: 1854								3-HOURLY OBSERVATION NOTES																							
01	OVC	065				10.00		62	50	55	65	0	00	29.04	29.98	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.																															
04	BKN	055				10.00		61	51	56	70	0	00	28.96	29.90	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																															
07	OVC	032				10.00		63	52	57	68	5	VR	28.97	29.91	& = Original observation contained additional weather elements.																															
10	OVC	024				2.50	+RA BR	64	61	62	90	16	20	28.99	29.93	See page 3 for additional notes.																															
13	OVC	021				10.00	-RA	67	61	63	81	21	21	28.95	29.90																																
16	FEW	NC				10.00		64	53	58	68	9	25	28.99	29.94																																
19	SCT	NC				10.00		50	42	46	74	7	24	29.08	30.05																																
22	OVC	021				10.00		46	38	42	73	6	VR	29.16	30.14																																
SUNRISE: 0631								MAR 27								SUNSET: 1855																															
01	OVC	024				10.00		41	34	38	76	6	01	29.19	30.17																																
04	OVC	016				10.00		38	32	36	79	8	01	29.20	30.19																																
07	OVC	014				10.00		37	32	35	82	6	36	29.24	30.24																																
10	OVC	014				10.00		37	31	35	79	7	06	29.28	30.28																																
13	OVC	018				10.00		39	32	36	76	7	06	29.27	30.28																																
16	BKN	028				10.00		42	30	37	62	8	05	29.25	30.26																																
19	CLR	NC				10.00		39	27	34	62	9	06	29.24	30.25																																
22	CLR	NC				10.00		34	27	31	76	6	04	29.24	30.26																																
SUNRISE: 0629								MAR 28								SUNSET: 1855																															
01	CLR	NC				8.00		31	27	29	85	0	00	29.22	30.24																																
04	CLR	NC				7.00		30	27	29	88	0	00	29.19	30.21																																
07	CLR	NC				6.00	BR	30	27	29	88	3	05	29.21	30.23																																
10	CLR	NC				10.00		43	29	37	58	6	VR	29.21	30.22																																
13	CLR	NC				10.00		58	31	46	36	6	16	29.14	30.14																																
16	CLR	NC				10.00		64	29	48	27	7	21	29.05	30.03																																
19	CLR	NC				10.00		62	31	48	31	0	00	29.02	30.01																																
22	CLR	NC				10.00		49	37	43	64	0	00	29.05	30.03																																
SUNRISE: 0628								MAR 29								SUNSET: 1856																															
01	OVC	090				10.00		49	38	44	66	0	00	29.03	30.00																																
04	OVC	080				10.00		54	37	46	53	5	24	29.04	30.00																																
07	FEW	NC				10.00		47	40	44	77	0	00	29.06	30.03																																
10	CLR	NC				10.00		63	40	51	43	3	25	29.05	30.01																																
13	FEW	NC				10.00		74	40	56	29	21	20	28.97	29.92																																
16	BKN	070				10.00		77	48	60	36	21	21	28.86	29.80																																
19	OVC	070				10.00		74	46	58	37	12	22	28.89	29.84																																
22	OVC	070				10.00	-RA	65	55	59	70	6	19	28.88	29.83																																
SUNRISE: 0626								MAR 30								SUNSET: 1857																															
01	BKN	095				6.00	RA BR	60	57	58	90	0	00	28.93	29.87																																
04	OVC	011				10.00		60	58	59	93	0	00	28.95	29.89																																
07	OVC	017				10.00		55	53	54	93	3	10	29.02	29.96																																
10	OVC	023				10.00		56	48	52	75	8	04	29.03	29.99																																
13	OVC	023				10.00	-RA	58	48	53	70	5	04	29.07	30.03																																
16	OVC	042				4.00	-RA BR	54	53	53	97	6	06	29.02	29.99																																
19	OVC	055				9.00	-RA	52	49	50	89	7	06	29.06	30.03																																
22	OVC	095				10.00	-RA	51	49	50	92	8	09	29.08	30.06																																





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LOCAL CLIMATOLOGICAL DATA

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