



OCTOBER 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 #: -

OCTOBER 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	83	68	76	12	66	69	0	11	BR HZ				0.00	29.22	30.16	0.6	20	2.5	12	27	9	25	01										
02	86	64	75	11	67	69	0	10	FG+ BR				0.00	29.19	30.13	1.0	23	1.2	13	22	10	19	02										
03	86*	65	76*	12	67	69	0	11	FG+ BR				0.00	29.12	30.05	0.1	26	1.4	10	21	8	22	03										
04	81	64	73	10	67	69	0	8	RA BR				0.10	29.00	29.93	3.6	20	4.3	32*	22	23*	20	04										
05	82	61	72	9	66	68	0	7	RA BR				0.01	29.12	30.05	0.5	15	3.4	15	27	10	26	05										
06	84	56	70	8	60	63	0	5					0.00	29.14	30.09	0.4	26	1.9	16	23	12	24	06										
07	70	54	62	0	59	61	3	0	RA BR				0.28	29.13	30.08	0.7	06	2.1	13	05	9	02	07										
08	75	52	64	3	56	59	1	0					0.00	29.14	30.10	1.6	06	2.3	13	07	10	07	08										
09	66	63	65	4	61	63	0	0	RA BR HZ				0.02	29.20	30.15	0.4	15	1.1	6	19	5	07	09										
10	67	62	65	4	64	65	0	0	RA BR				0.33	29.16	30.11	0.4	10	.7	7	06	6	05	10										
11	72	64	68	8	66	66	0	3	RA FG+ BR				0.27	29.10	30.05	0.1	13	.4	6	27	5	18	11										
12	79	64	72	12	66	68	0	7	FG+ BR				0.00	29.14	30.09	0.4	19	1.2	9	29	7	18	12										
13	72	51	62	3	57	60	3	0	FG+ BR				0.00	29.24	30.19	2.4	01	4.0	18	36	14	01	13										
14	68	49	59	0	47	52	6	0					0.00	29.20	30.18	3.9	06	5.3	18	07	15	07	14										
15	60	55	58	-1	53	55	7	0	RA BR				0.53	28.94	29.90	3.1	06	3.9	16	06	12	06	15										
16	63	43	53	-5	46	50	12	0	RA BR				0.10	28.88	29.84	3.0	36	4.6	21	02	14	01	16										
17	60	41	51	-7	40	45	14	0	BR				0.00	29.08	30.06	0.8	22	2.1	17	21	13	23	17										
18	64	37*	51	-7	42	46	14	0	BR				0.00	29.22	30.21	0.7	21	1.6	14	21	10	19	18										
19	64	48	56	-1	49	52	9	0					0.00	29.13	30.10	0.9	24	1.9	13	27	9	26	19										
20	64	57	61	4	57	58	4	0	RA BR				0.05	29.04	30.01	0.4	08	1.1	9	09	7	08	20										
21	68	54	61	5	55	57	4	0	BR				0.00	29.08	30.04	1.1	05	1.5	8	09	7	07	21										
22	69	49	59	3	53	55	6	0					0.00	29.20	30.17	1.6	07	2.0	14	05	10	06	22										
23	72	46	59	3	52	54	6	0	FG+ BR				0.00	29.24	30.22	0.7	10	1.7	12	06	9	06	23										
24	63	55	59	4	55	57	6	0	RA BR				0.06	29.21	30.18	0.9	06	1.1	8	07	7	06	24										
25	60	56	58	3	56	57	7	0	RA BR				0.23	29.12	30.09	0.2	02	2.1	12	23	8	22	25										
26	65	58	62	7	59	60	3	0	RA BR				0.05	29.09	30.05	1.3	20	2.4	9	22	7	16	26										
27	69	56	63	9	55	58	2	0	RA BR				T	29.14	30.10	1.3	07	2.2	13	05	9	07	27										
28	63	56	60	6	59	59	5	0	RA BR				0.90	28.99	29.95	1.4	06	1.7	8	07	7	06	28										
29	71	61	66	13	64	64	0	1	RA FG+ BR				0.89	28.82	29.77	1.2	23	2.3	28	26	18	25	29										
30	65	47	56	3	49	52	9	0	RA BR				0.03	28.96	29.92	1.3	31	4.8	17	27	12	29	30										
31	51	44	48*	-5	40	44	17	0					0.00	29.21	30.21	0.5	03	1.4	9	05	8	05	31										
< MONTHLY AVERAGES										TOTALS-->																							
69.7										54.8				62.3				■ ■		56.6		58.8		4.5		2.0							
-1.4										9.1				3.9				■ ■		<-----		DEPARTURE FROM NORMAL		----->				0.83					
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.12				DATE: 28-29				SEA LEVEL PRESSURE				DATE TIME											
MONTHLY TOTAL DEPARTURE										SEASON TO DATE TOTAL DEPARTURE				GREATEST 24-HR SNOWFALL:				DATE:				MAXIMUM MINIMUM				: 30.31 13 2153							
HEATING: 138 -92										141 -119				GREATEST SNOW DEPTH:				DATE:				: 29.66 29 1353											
COOLING: 63 40										1769 469				NUMBER OF DAYS WITH				MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 0				PRECIPITATION ≥ 0.01 INCH: 15							
																		MAXIMUM TEMP ≤ 32: 0				MINIMUM TEMP ≤ 0: 0				PRECIPITATION ≥ 0.10 INCH: 9							
																						THUNDERSTORMS: 0				HEAVY FOG: 7				SNOWFALL ≥ 1.0 INCH: :			

SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN

OCTOBER 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													02												02		0.00		
03													03												03		0.00		
04													04	T	0.04	0.03	0.02	0.01							04		0.10		
05				T	0.01								05												05		0.01		
06													06												06		0.00		
07			T	0.10	0.03	0.05	0.06	0.02	0.02	T	T		07												07		0.28		
08													08												08		0.00		
09													09			0.01	0.01								09		0.00		
10					0.02	0.02	0.01	T	0.01	0.01	0.01	T	10	0.01	0.03	0.02	0.03	0.02	0.01	T	0.01	0.02	0.02	0.03	0.05	10		0.33	
11	0.04	0.05	0.02	T	0.01	0.01	0.01	0.04	0.07	0.01	0.01		11							T					11		0.27		
12													12												12		0.00		
13													13												13		0.00		
14													14												14		0.00		
15													15			0.01	0.10	0.09	0.05	0.04	0.05	0.06	0.08	0.05	15		0.53		
16	0.05	0.03	0.01	0.01	T		T						16												16		0.10		
17													17												17		0.00		
18													18												18		0.00		
19													19												19		0.00		
20		T	0.02	T	T			T	T				20					0.03							20		0.05		
21													21												21		0.00		
22													22												22		0.00		
23													23												23		0.00		
24						0.06	T			T			24												24		0.06		
25											T	0.01	25	0.09	0.08	0.02	T		0.01		0.01			0.01	T	25		0.23	
26	T					0.02	0.01						26						T	0.01	0.01	T			26		0.05		
27				T	T								27												27		T		
28		T	0.03	0.05	0.01	T	0.05	0.04	0.24	0.25	0.10	0.04	28	0.04	0.01						0.02	0.02			28		0.90		
29			0.01	0.15	0.14	0.01		T	T		0.08	0.07	29	0.08	0.01	T	0.34								29		0.89		
30	T	0.02			T								30												30		0.03		
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)	.19	.33	.33	.34	.34	.34	.34	.37	.42	.50	.57	.61
Ending Date	29	29	29	29	29	29	29	28	28	28	28	28
Ending Time (Hour/Min)	1510	1514	1514	1521	1521	1521	1521	0917	0944	0955	1022	1022

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

OAK RIDGE, TN OCTOBER 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							4.00	10.00	
02							.25	10.00	
03							<.25	10.00	
04							2.50	10.00	
05							1.50	10.00	
06							9.00	10.00	
07							1.75	10.00	
08							8.00	10.00	
09							1.75	8.00	
10							1.50	5.00	
11							.25	8.00	
12							.25	9.00	
13							.25	10.00	
14							10.00	10.00	
15							1.75	10.00	
16							4.00	10.00	
17							5.00	10.00	
18							1.75	10.00	
19							7.00	10.00	
20							2.00	10.00	
21							1.75	10.00	
22							8.00	10.00	
23							.25	10.00	
24							5.00	10.00	
25							1.25	8.00	
26							1.75	10.00	
27							6.00	10.00	
28							.75	10.00	
29							.25	10.00	
30							5.00	10.00	
31							8.00	10.00	
MONTHLY AVGS							3.61	9.61	
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									
6 16 6									

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

OCTOBER 2002

QQT

WBAN # 53868

HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)					
	SKY COVER	CEILING 100'S OF FT			OBSERVATION TIME (LST)	EFF CLD AMT Oktas	DRY BULB		DEW POINT	WET BULB	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	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0632					OCT 01					SUNSET: 1821					SUNRISE: 0637					OCT 07					SUNSET: 1812				
01	OVC	036	9.00		71	64	67	79	5	VR	29.21	30.15	01	FEW	NC	10.00		65	61	63	87	0	00	29.10	30.04				
04	OVC	038	7.00		70	66	67	87	0	00	29.21	30.15	04	OVC	060	6.00	-RA BR	65	64	64	97	0	00	29.10	30.04				
07	SCT	NC	4.00	HZ	69	64	66	84	0	00	29.25	30.19	07	OVC	100	10.00	-RA	63	61	62	93	6	10	29.13	30.08				
10	OVC	034	9.00		75	64	68	69	6	17	29.26	30.20	10	BKN	039	10.00		63	61	62	93	3	VR	29.16	30.11				
13	SCT	NC	10.00		82	66	71	58	5	18	29.22	30.16	13	OVC	035	10.00		67	59	62	76	5	35	29.13	30.09				
16	OVC	100	10.00		81	66	71	61	5	VR	29.18	30.12	16	FEW	NC	10.00		68	58	62	70	6	VR	29.11	30.06				
19	CLR	NC	8.00		75	69	71	82	0	00	29.19	30.13	19	CLR	NC	10.00		61	55	58	81	0	00	29.14	30.10				
22	CLR	NC	6.00	BR	71	68	69	90	0	00	29.21	30.15	22	CLR	NC	6.00	BR	56	54	55	93	0	00	29.14	30.11				
SUNRISE: 0633					OCT 02					SUNRISE: 1819					SUNRISE: 0638					OCT 08					SUNSET: 1811				
01	CLR	NC	4.00	BR	67	66	66	97	0	00	29.20	30.14	01	CLR	NC	10.00		53	49	51	86	0	00	29.12	30.09				
04	CLR	NC	4.00	BR	66	64	65	93	0	00	29.19	30.13	04	BKN	043	10.00		54	49	51	83	5	06	29.13	30.09				
07	VV	001	0.25	FG	64	64	64	100	0	00	29.23	30.17	07	BKN	041	10.00		55	50	52	83	6	05	29.15	30.12				
10	CLR	NC	7.00		77	68	71	74	0	00	29.24	30.18	10	SCT	NC	10.00		63	52	57	68	8	07	29.18	30.15				
13	CLR	NC	9.00		82	68	73	63	7	23	29.19	30.13	13	FEW	NC	10.00		71	56	62	59	5	VR	29.14	30.10				
16	FEW	NC	10.00		84	67	73	57	0	00	29.14	30.07	16	BKN	048	10.00		74	59	65	60	0	00	29.11	30.06				
19	CLR	NC	8.00		77	70	72	79	0	00	29.14	30.08	19	OVC	050	10.00		69	63	65	81	0	00	29.12	30.09				
22	CLR	NC	4.00	BR	70	69	69	97	0	00	29.16	30.10	22	BKN	037	9.00		66	63	64	90	0	00	29.15	30.11				
SUNRISE: 0634					OCT 03					SUNRISE: 1818					SUNRISE: 0639					OCT 09					SUNSET: 1809				
01	CLR	NC	4.00	BR	69	67	68	93	0	00	29.14	30.08	01	OVC	033	8.00		66	62	64	87	3	20	29.16	30.10				
04	VV	001	0.25	FG	66	66	66	100	0	00	29.12	30.06	04	OVC	034	6.00	BR	65	63	64	93	0	00	29.17	30.11				
07	VV	001	<.25	FG	66	66	66	100	3	07	29.15	30.09	07	OVC	035	5.00	BR	64	60	62	87	0	00	29.20	30.16				
10	FEW	NC	3.00	BR	72	68	69	87	0	00	29.17	30.11	10	OVC	021	7.00		65	59	61	81	0	00	29.23	30.18				
13	CLR	NC	10.00		82	67	72	60	0	00	29.13	30.06	13	OVC	015	5.00	HZ	65	60	62	84	0	00	29.21	30.16				
16	CLR	NC	10.00		83	65	71	55	3	13	29.07	30.00	16	OVC	035	3.00	BR	64	62	63	93	0	00	29.18	30.14				
19	CLR	NC	9.00		75	70	72	84	0	00	29.07	30.00	19	OVC	008	4.00	BR	64	63	63	96	0	00	29.19	30.15				
22	CLR	NC	8.00		72	69	70	91	0	00	29.08	30.02	22	OVC	028	3.00	BR	64	63	63	96	0	00	29.20	30.16				
SUNRISE: 0634					OCT 04					SUNRISE: 1816					SUNRISE: 0639					OCT 10					SUNSET: 1808				
01	CLR	NC	6.00	BR	69	67	68	93	0	00	29.06	29.98	01	OVC	019	4.00	BR	64	62	63	93	0	00	29.18	30.13				
04	CLR	NC	5.00	BR	67	65	66	93	0	00	29.03	29.95	04	SCT	NC	1.50	BR	62	62	62	100	0	00	29.15	30.11				
07	CLR	NC	4.00	BR	65	63	64	93	3	14	29.01	29.95	07	SCT	NC	1.75	BR	63	62	62	97	0	00	29.17	30.13				
10	BKN	075	8.00		78	65	70	64	12	22	29.00	29.93	10	SCT	NC	2.50	-RA BR	65	64	64	97	0	00	29.19	30.15				
13	OVC	050	10.00	-RA	77	64	69	64	12	21	28.96	29.88	13	BKN	010	4.00	-RA BR	67	65	66	93	3	09	29.17	30.12				
16	OVC	016	4.00	-RA BR	71	69	70	94	3	VR	28.95	29.88	16	BKN	014	2.50	-RA BR	67	66	66	97	3	VR	29.13	30.09				
19	OVC	009	8.00		73	71	72	94	0	00	29.00	29.93	19	OVC	011	3.00	BR	66	65	65	96	0	00	29.12	30.08				
22	OVC	012	4.00	BR	71	70	70	96	0	00	29.02	29.95	22	OVC	045	3.00	-RA BR	66	65	65	96	0	00	29.13	30.08				
SUNRISE: 0635					OCT 05					SUNRISE: 1815					SUNRISE: 0640					OCT 11					SUNSET: 1807				
01	OVC	004	2.50	BR	72	71	71	97	6	VR	29.02	29.95	01	OVC	007	4.00	-RA BR	65	65	65	100	0	00	29.11	30.06				
04	OVC	004	4.00	BR	72	71	71	97	6	VR	29.02	29.96	04	OVC	013	3.00	-RA BR	65	64	64	97	0	00	29.08	30.03				
07	BKN	003	1.50	BR	71	71	71	100	0	00	29.08	30.03	07	OVC	005	4.00	BR	65	64	64	97	0	00	29.10	30.05				
10	BKN	015	10.00		76	69	71	79	5	VR	29.14	30.08	10	OVC	006	4.00	-RA BR	66	64	65	93	0	00	29.12	30.07				
13	CLR	NC	10.00		79	67	71	67	7	VR	29.13	30.06	13	OVC	008	6.00	BR	69	66	67	90	3	VR	29.08	30.03				
16	CLR	NC	10.00		80	62	69	54	5	VR	29.12	30.05	16	OVC	029	7.00		72	67	69	84	0	00	29.08	30.01				
19	CLR	NC	10.00		70	62	65	76	0	00	29.15	30.09	19	OVC	070	4.00	BR	69	68	68	96	0	00	29.08	30.03				
22	CLR	NC	10.00		64	58	60	81	5	05	29.19	30.14	22	OVC	003	3.00	BR	67	66	66	97	0	00	29.11	30.06				
SUNRISE: 0636					OCT 06					SUNRISE: 1814					SUNRISE: 0641					OCT 12					SUNSET: 1805				
01	CLR	NC	10.00		60	57	58	90	0	00	29.17	30.11	01	VV	001	0.25	FG	64	64	64	100	3	36	29.10	30.05				
04	CLR	NC	10.00		57	56	56	96	0	00	29.16	30.11	04	VV	001	0.25	FG	65	65	65	100	0	00	29.12	30.07				
07	CLR	NC	9.00		56	54	55	93	0	00	29.18	30.14	07	OVC	009	5.00	BR	66	65	65	96	0	00	29.15	30.11				
10	CLR	NC	10.00		69	60	64	73	0	00	29.17	30.12	10	OVC	008	4.00	BR	69	66	67	90	6	17	29.19	30.14				
13	CLR	NC	10.00		80	64	70	58	7	VR	29.11	30.06	13	BKN	027	8.00		75	66	69	74	3	26	29.15	30.10				
16	CLR	NC	10.00		82	61	69	49	3	VR	29.09	30.03	16	CLR	NC	8.00		77	66	70	69	3	14	29.11	30.05				
19	SCT	NC	10.00		73	64	67	74	0	00	29.12	30.08	19	OVC	110	6.00	BR	73	69	70	87	0	00	29.12	30.07				
22	CLR	NC	10.00		68	62	64	81	0	00	29.13	30.08	22	CLR	NC	3.00	BR	69	68	68	96	0	00	29.13	30.08				

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

OCTOBER 2002

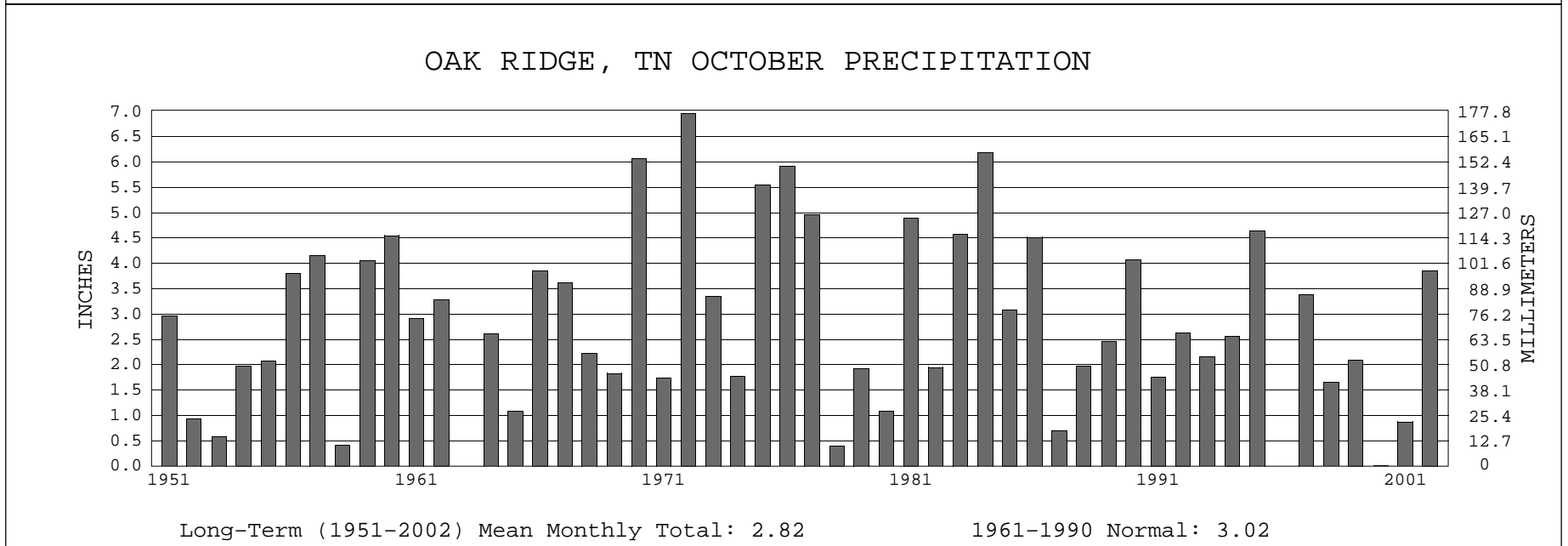
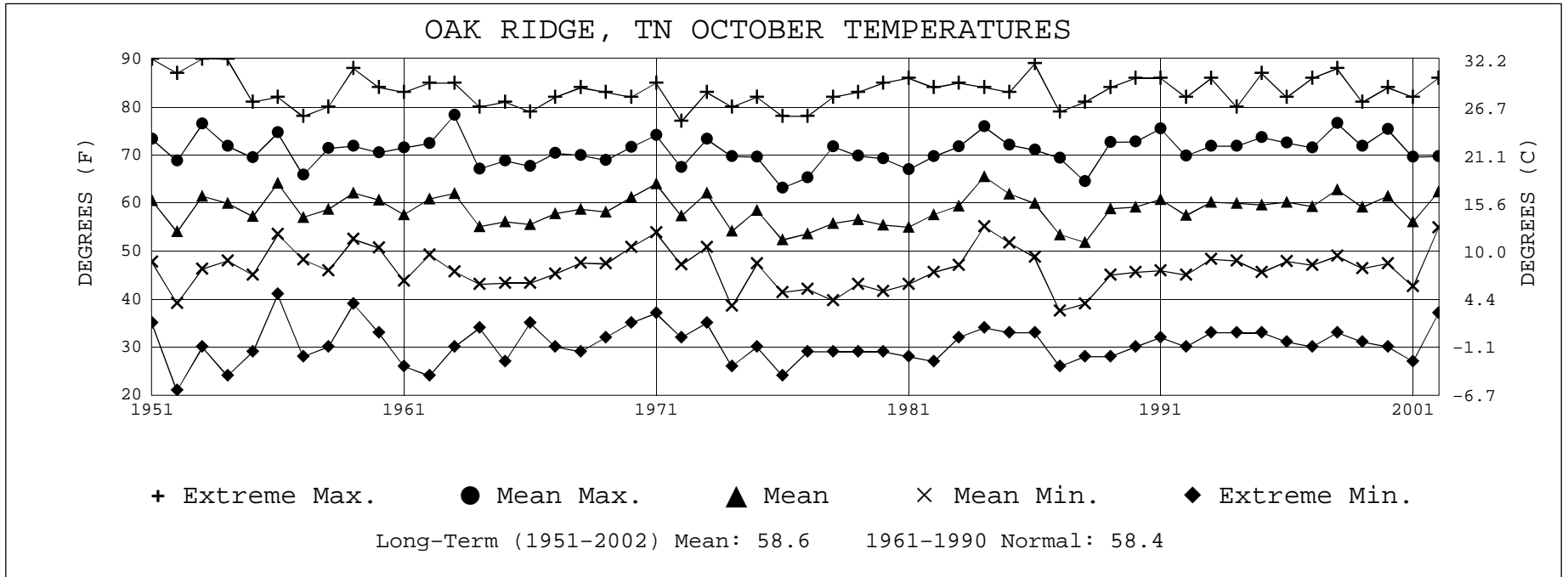
OQT

WBAN # 53868

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 Otktas	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 Otktas	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0653					OCT 25					SUNSET: 1749					SUNRISE: 0659					OCT 31					SUNSET: 1742				
01	BKN	037	6.00	BR	58	56	57	93	0	00	29.18	30.15	01	OVC	018	10.00		46	41	44	83	3	VR	29.14	30.12				
04	OVC	075	5.00	BR	57	56	56	96	0	00	29.16	30.12	04	OVC	024	9.00		44	39	42	83	0	00	29.16	30.15				
07	OVC	075	7.00		56	53	54	90	0	00	29.16	30.13	07	OVC	026	10.00		44	38	41	79	0	00	29.19	30.19				
10	OVC	044	8.00		58	53	55	84	0	00	29.15	30.12	10	OVC	022	10.00		47	39	43	74	5	02	29.23	30.22				
13	OVC	006	4.00	-RA BR	58	56	57	93	0	00	29.09	30.06	13	OVC	024	10.00		48	39	44	71	0	00	29.21	30.20				
16	OVC	007	2.50	BR	59	58	58	96	5	27	29.07	30.03	16	OVC	044	10.00		50	41	46	71	0	00	29.21	30.20				
19	OVC	005	4.00	BR	59	58	58	96	5	VR	29.07	30.03	19	OVC	030	10.00		49	42	46	77	0	00	29.24	30.24				
22	OVC	007	6.00	BR	60	58	59	93	3	VR	29.08	30.05	22	OVC	045	10.00		48	42	45	80	0	00	29.27	30.26				
SUNRISE: 0654					OCT 26					SUNSET: 1748					3-HOURLY OBSERVATION NOTES														
01	OVC	007	7.00		59	58	58	96	3	VR	29.08	30.05	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.																
04	OVC	003	3.00	BR	58	58	58	100	3	20	29.07	30.03																	
07	OVC	005	4.00	BR	59	58	58	96	3	22	29.08	30.04																	
10	OVC	005	10.00		61	59	60	93	5	19	29.10	30.07																	
13	OVC	009	10.00		63	60	61	90	3	20	29.08	30.05																	
16	OVC	045	10.00		65	60	62	84	3	18	29.08	30.03																	
19	OVC	021	3.00	BR	62	61	61	96	0	00	29.09	30.06																	
22	OVC	019	6.00	BR	60	58	59	93	0	00	29.12	30.09																	
SUNRISE: 0655					OCT 27					SUNSET: 1747																			
01	OVC	017	7.00		58	56	57	93	3	06	29.13	30.10																	
04	OVC	023	10.00	-RA	57	54	55	90	0	00	29.15	30.11																	
07	OVC	033	9.00		56	54	55	93	3	07	29.18	30.15																	
10	OVC	015	10.00		60	53	56	78	8	05	29.19	30.16																	
13	FEW	NC	10.00		66	55	60	68	0	00	29.15	30.11																	
16	BKN	032	10.00		68	55	60	63	5	20	29.11	30.07																	
19	BKN	049	9.00		60	58	59	93	0	00	29.11	30.08																	
22	OVC	043	7.00		59	57	58	93	0	00	29.11	30.07																	
SUNRISE: 0656					OCT 28					SUNSET: 1746																			
01	OVC	028	9.00		58	54	56	87	3	07	29.08	30.03																	
04	OVC	007	2.50	-RA BR	56	56	56	100	3	07	29.03	29.98																	
07	OVC	009	2.00	-RA BR	57	57	57	100	0	00	29.01	29.97																	
10	OVC	009	2.00	RA BR	58	58	58	100	0	00	29.02	29.98																	
13	OVC	004	6.00	-RA BR	60	59	59	96	0	00	28.97	29.93																	
16	OVC	003	8.00		62	61	61	96	0	00	28.94	29.89																	
19	OVC	003	1.75	-RA BR	62	61	61	96	5	06	28.97	29.92																	
22	OVC	009	5.00	BR	62	61	61	96	3	04	28.96	29.91																	
SUNRISE: 0657					OCT 29					SUNSET: 1744																			
01	OVC	007	10.00		62	61	61	96	3	06	28.93	29.88																	
04	OVC	007	1.00	+RA BR	61	61	61	100	6	19	28.89	29.84																	
07	OVC	006	10.00		62	61	61	96	0	00	28.89	29.84																	
10	OVC	006	7.00		64	63	63	96	0	00	28.86	29.80																	
13	OVC	008	3.00	-RA BR	68	67	67	96	0	00	28.74	29.68																	
16	SCT	NC	10.00		68	65	66	90	9	25	28.76	29.70																	
19	OVC	070	10.00		66	64	65	93	0	00	28.80	29.75																	
22	OVC	045	9.00		65	64	64	97	0	00	28.79	29.73																	
SUNRISE: 0658					OCT 30					SUNSET: 1743																			
01	OVC	005	5.00	-RA BR	65	64	64	97	0	00	28.79	29.72																	
04	OVC	060	10.00		63	62	62	97	5	VR	28.79	29.73																	
07	FEW	NC	10.00		56	55	55	97	6	VR	28.87	29.83																	
10	OVC	025	10.00		56	50	53	81	7	VR	28.94	29.90																	
13	OVC	026	10.00		54	44	49	69	12	28	28.99	29.95																	
16	OVC	026	10.00		52	43	48	72	6	06	29.03	29.99																	
19	OVC	026	10.00		48	39	44	71	6	VR	29.07	30.05																	
22	OVC	028	10.00		48	41	45	77	0	00	29.11	30.09																	

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)	DIRECTION	SPEED	DIRECTION
							STATION	SEA LEVEL					
01			59	57	58	91	29.10	30.06	6.87	1	0	0	0
02			59	56	57	92	29.10	30.06	6.71	1	0	0	0
03			58	56	57	93	29.10	30.05	6.36	1	0	0	0
04			58	56	57	94	29.10	30.05	5.96	1	0	0	0
05			58	56	57	93	29.11	30.06	6.24	1	0	0	0
06			58	56	56	93	29.12	30.08	5.99	1	0	0	0
07			57	55	56	92	29.12	30.09	6.08	2	1	5	5
08			58	55	57	90	29.13	30.10	6.25	1	1	6	6
09			60	56	58	85	29.14	30.11	7.35	2	1	4	4
10			62	56	59	81	29.14	30.10	8.11	3	1	8	8
11			64	56	60	75	29.14	30.10	8.71	3	1	11	11
12			66	56	60	73	29.13	30.09	9.00	3	1	22	22
13			67	56	61	71	29.11	30.07	8.77	3	0	0	0
14			67	56	61	70	29.09	30.05	8.87	3	0	0	0
15			68	56	61	69	29.08	30.04	8.90	3	0	0	0
16			67	56	61	70	29.08	30.04	8.68	2	0	0	0
17			67	57	61	72	29.09	30.04	8.48	2	0	0	0
18			65	58	61	78	29.09	30.04	8.12	1	0	0	0
19			63	58	60	85	29.10	30.06	7.90	0	0	0	0
20			61	57	59	89	29.10	30.07	7.92	1	1	7	7
21			60	57	59	90	29.11	30.07	7.58	1	1	5	5
22			60	57	58	91	29.12	30.08	7.35	0	0	0	0
23			59	56	58	92	29.12	30.08	7.23	0	0	0	0
24			59	56	57	91	29.11	30.07	7.10	0	0	0	0





OCTOBER 2002

OAK RIDGE, TN

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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