



JUNE 1999

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

OAK RIDGE, TN

OAK RIDGE (OQT)
 Lat: 36°01' N Long: 84°14' W Elev (Ground): 910 Feet
 Time Zone: EASTERN WBAN: 53868 ISSN #: -

JUNE 1999
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	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	80	67	74	5	63	67	0	9	RA				T	29.07	30.01	4.5	20	5.4	20	21	15	20	01																																				
02	83	63	73	4	66	68	0	8	RA FG BR HZ SQ				0.70	29.09	30.03	2.5	24	4.5	49*	28	18	33	02																																				
03	88	65	77	7	67	69	0	12	BR				0.00	29.13	30.07	1.3	21	3.6	14	34	10	27	03																																				
04	83	63	73	3	67	69	0	8	BR				0.00	29.13	30.07	1.5	07	2.2	13	06	10	07	04																																				
05	87	63	75	5	66	68	0	10	RA FG+ BR HZ				0.19	29.18	30.11	0.7	22	1.8	21	29	15	29	05																																				
06	87	66	77	6	67	70	0	12	FG+ BR HZ				0.00	29.25	30.19	0.6	25	1.8	14	22	10	22	06																																				
07	89	66	78	7	65	69	0	13	FG+ BR HZ				0.00	29.23	30.16	0.1	04	1.9	11	21	8	27	07																																				
08	91	64	78	7	65	69	0	13	FG+ BR HZ				0.00	29.13	30.06	0.8	07	2.1	11	07	9	06	08																																				
09	93	67	80	9	67	71	0	15	FG BR HZ				0.00	29.09	30.01	1.4	07	2.7	16	06	11	06	09																																				
10	93*	66	80	9	66	70	0	15	BR HZ				0.00	29.12	30.05	1.2	10	2.8	17	20	11	19	10																																				
11	89	66	78	6	67	70	0	13	BR HZ				0.00	29.16	30.09	0.7	08	2.0	14	07	9	06	11																																				
12	89	66	78	6	65	69	0	13	BR HZ				0.00	29.16	30.09	1.2	07	2.1	13	06	9	08	12																																				
13	88	68	78	6	64	69	0	13	BR HZ				0.00	29.11	30.04	2.3	21	3.1	13	19	10	26	13																																				
14	78	67	73	1	67	68	0	8	RA BR HZ				0.26	29.07	30.00	0.3	28	1.2	10	26	8	21	14																																				
15	85	66	76	3	62	67	0	11	BR				0.00	29.06	29.99	3.0	04	4.3	17	07	13	36	15																																				
16	77	66	72	-1	63	66	0	7	RA BR				0.09	29.02	29.95	1.9	10	2.5	10	06	8	05	16																																				
17	79	58	69	-4	58	63	0	4	FG+ BR				0.00	29.12	30.07	2.5	03	3.9	16	36	13	02	17																																				
18	80	53*	67*	-6	51	58	0	2	BR				0.00	29.26	30.21	3.8	05	5.0	18	08	14	05	18																																				
19	82	56	69	-4	54	60	0	4	BR				0.00	29.26	30.21	1.7	04	3.6	16	06	11	08	19																																				
20	84	56	70	-3	57	62	0	5	BR				0.00	29.23	30.18	2.3	08	3.3	15	08	13	09	20																																				
21	87	59	73	-1	60	65	0	8	BR				0.00	29.19	30.13	1.1	06	2.5	13	08	10	09	21																																				
22	87	63	75	1	65	68	0	10	RA BR				T	29.15	30.08	0.7	25	2.9	14	23	11	22	22																																				
23	85	67	76	2	66	69	0	11	BR HZ				0.00	29.11	30.04	1.9	23	4.4	15	27	11	25	23																																				
24	79	69	74	0	70	71	0	9	RA BR				2.55	28.98	29.91	3.9	19	5.4	22	15	16	17	24																																				
25	86	71	79	5	71	73	0	14	RA BR				0.10	28.94	29.87	3.4	23	5.6	16	20	11	21	25																																				
26	85	70	78	4	72	73	0	13	RA BR				0.60	29.00	29.92	1.1	21	2.8	25	18	21*	19	26																																				
27	79	72	76	2	74	74	0	11	RA BR				0.62	28.96	29.88	3.4	20	4.6	16	20	14	21	27																																				
28	89	69	79	4	73	75	0	14	RA BR				0.23	28.92	29.85	4.5	22	6.2	21	22	15	21	28																																				
29	90	69	80*	5	70	72	0	15	RA FG+ BR				0.87	28.86	29.78	1.6	24	3.7	17	27	13	28	29																																				
30	86	64	75	0	67	70	0	10	FG+ BR				0.00	28.96	29.88	1.7	22	3.2	15	21	11	21	30																																				
										85.3		64.8		75.1		■ ■		0.0		10.3		< MONTHLY AVERAGES				TOTALS-->		6.21		29.10		0.5		20		3.4		<- MONTHLY AVERAGES																					
										1.1		4.3		2.7		■ ■		<----- DEPARTURE FROM NORMAL ----->										1.87		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																													
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 2.61 DATE: 24-25										SEA LEVEL PRESSURE DATE TIME																																							
MONTHLY TOTAL DEPARTURE										SEASON TO DATE TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: DATE: DATE: DATE:										MAXIMUM MINIMUM : 30.27 19 0853 : 29.73 29 1553																													
HEATING: 0 0 732 -3451										COOLING: 310 84 453 128										NUMBER OF DAYS WITH →										MAXIMUM TEMP ≥ 90: 4										MINIMUM TEMP ≤ 32: 0										PRECIPITATION ≥ 0.01 INCH: 10									
																														MAXIMUM TEMP ≤ 32: 0										MINIMUM TEMP ≤ 0: 0										PRECIPITATION ≥ 0.10 INCH: 9									
																														THUNDERSTORMS: 0										HEAVY FOG: 7										SNOWFALL ≥ 1.0 INCH: :									

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN

JUNE 1999

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					T	T	T																		01			T	
02									0.01	0.10	T				T	0.17	0.40	T		0.02	T	T		02			0.70		
03																								03			0.00		
04																								04			0.00		
05															0.09	0.02	0.04	0.03	0.01	T	T			05			0.19		
06																								06			0.00		
07																								07			0.00		
08																								08			0.00		
09																								09			0.00		
10																								10			0.00		
11																								11			0.00		
12																								12			0.00		
13																								13			0.00		
14											T	T			0.04	0.08	0.06	0.06	0.02	T			14			0.26			
15																								15			0.00		
16																								16			0.09		
17																					0.09	T		17			0.00		
18																								18			0.00		
19																								19			0.00		
20																								20			0.00		
21																								21			0.00		
22																T								22			T		
23																								23			0.00		
24			T	0.01	0.06	0.02	0.09	0.10	0.13	0.07	0.02					0.03			0.02	0.23	0.31	0.76	0.53	0.17	24			2.55	
25	0.05	0.01	T		T		0.01	0.03																25			0.10		
26																								26			0.60		
27	T	0.01	T	T	0.04	0.05	0.07									T	T	T			0.56	0.03	T	0.01	27			0.62	
28	T														0.03	0.03	0.01	0.15	0.07	0.13				28			0.23		
29					0.05	0.26	0.03	T	0.51	0.02									0.01	0.02	0.13	0.07	T		29			0.87	
30																								30			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)												
Ending Date												
Ending Time (Hour/Min)												

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	
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 JUNE 1999

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 at constant pressure by evaporation of moisture into it, to 100% relative humidity.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

ADDITIONAL NOTES:

March 1999 is the first month ASOS data was processed.

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							.75	10.00	
03							1.00	10.00	
04							2.00	10.00	
05							1.00	10.00	
06							<.25	10.00	
07							<.25	10.00	
08							<.25	10.00	
09							.50	10.00	
10							2.50	9.00	
11							2.50	8.00	
12							2.50	10.00	
13							4.00	10.00	
14							2.00	9.00	
15							4.00	10.00	
16							4.00	10.00	
17							.50	10.00	
18							6.00	10.00	
19							8.00	10.00	
20							3.00	10.00	
21							2.50	10.00	
22							4.00	10.00	
23							5.00	9.00	
24							1.00	10.00	
25							5.00	10.00	
26							3.00	10.00	
27							1.00	10.00	
28							5.00	10.00	
29							6.00	10.00	
30							<.25	10.00	
MONTHLY AVGS							2.90	9.83	
SUNSHINE (MINUTES)									
Total: Possible: Percent Possible:									
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR PTLY CLDY CLOUDY MISSING									
30									
MINIMUM VISIBILITY (MILES)									
<=0.25 <=3.0 >=7.0									
4 19 2									

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

JUNE 1999

QQT

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)		
			OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL				OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	
SUNRISE: 0520 JUN 13 SUNSET: 1954																														
01	CLR	NC			6.00	HZ	74	67	69	79	5	27	29.15	30.07	01	BKN	060			10.00			61	53	57	75	3	05	29.26	30.21
04	CLR	NC			6.00	HZ	71	66	68	84	0	00	29.12	30.04	04	CLR	NC			10.00			57	54	55	90	0	00	29.27	30.22
07	CLR	NC			4.00	HZ	72	66	68	82	0	00	29.16	30.08	07	CLR	NC			10.00			59	54	56	83	0	00	29.31	30.26
10	CLR	NC			8.00		79	64	69	60	6	21	29.17	30.10	10	BKN	075			10.00			71	54	61	55	7	05	29.32	30.27
13	CLR	NC			10.00		86	61	70	43	8	17	29.13	30.05	13	CLR	NC			10.00			79	54	64	42	5	VR	29.27	30.22
16	SCT	NC			10.00		87	61	70	42	8	21	29.07	29.99	16	CLR	NC			10.00			81	52	64	37	7	VR	29.23	30.17
19	CLR	NC			10.00		84	62	70	48	3	26	29.05	29.97	19	CLR	NC			10.00			78	54	64	43	6	01	29.22	30.16
22	CLR	NC			8.00		74	66	69	76	0	00	29.08	30.01	22	CLR	NC			10.00			67	57	61	71	0	00	29.23	30.18
SUNRISE: 0520 JUN 14 SUNSET: 1954																														
01	CLR	NC			6.00	BR	69	65	66	87	0	00	29.08	30.01	01	SCT	NC			7.00			63	58	60	84	0	00	29.23	30.18
04	SCT	NC			7.00		70	65	67	84	0	00	29.06	29.98	04	CLR	NC			5.00	BR		58	57	57	97	0	00	29.24	30.19
07	CLR	NC			5.00	BR	69	65	66	87	0	00	29.08	30.00	07	CLR	NC			5.00	BR		59	56	57	90	3	06	29.28	30.23
10	BKN	075			9.00		76	63	68	64	3	VR	29.08	30.01	10	CLR	NC			10.00			72	55	62	55	3	VR	29.29	30.24
13	BKN	060			3.00	-RA BR	71	68	69	90	0	00	29.08	30.03	13	CLR	NC			10.00			79	57	65	47	6	08	29.24	30.19
16	BKN	007			3.00	-RA BR	71	69	70	94	0	00	29.05	29.99	16	CLR	NC			10.00			83	53	65	36	7	09	29.19	30.14
19	FEW	NC			7.00		72	69	70	91	0	00	29.06	29.99	19	CLR	NC			10.00			80	56	65	44	5	07	29.17	30.12
22	OVC	100			2.00	BR	70	69	69	97	0	00	29.08	30.02	22	CLR	NC			10.00			69	59	63	70	0	00	29.20	30.15
SUNRISE: 0520 JUN 15 SUNSET: 1955																														
01	OVC	047			10.00		69	66	67	90	0	00	29.09	30.03	01	CLR	NC			8.00			63	61	62	93	0	00	29.21	30.16
04	OVC	075			6.00	BR	66	65	65	96	0	00	29.05	29.99	04	CLR	NC			5.00	BR		61	59	60	93	0	00	29.23	30.17
07	CLR	NC			7.00		67	65	66	93	0	00	29.08	30.02	07	CLR	NC			4.00	BR		61	60	60	97	0	00	29.25	30.20
10	FEW	NC			10.00		76	64	68	67	12	07	29.08	30.02	10	CLR	NC			10.00			76	62	67	62	5	19	29.24	30.18
13	CLR	NC			10.00		83	63	70	51	6	VR	29.07	29.99	13	SCT	NC			10.00			84	59	68	43	8	05	29.19	30.14
16	SCT	NC			10.00		83	63	70	51	8	36	29.02	29.95	16	FEW	NC			10.00			86	57	68	37	3	VR	29.13	30.07
19	CLR	NC			10.00		77	59	66	54	6	VR	29.03	29.96	19	CLR	NC			10.00			84	59	68	43	3	01	29.12	30.06
22	SCT	NC			10.00		72	59	64	64	3	06	29.06	29.99	22	CLR	NC			10.00			71	63	66	76	0	00	29.15	30.09
SUNRISE: 0520 JUN 16 SUNSET: 1955																														
01	OVC	095			10.00		71	60	64	68	0	00	29.04	29.96	01	CLR	NC			9.00			67	62	64	84	0	00	29.15	30.09
04	OVC	044			10.00		71	60	64	68	0	00	29.02	29.94	04	BKN	080			8.00			67	63	64	87	0	00	29.16	30.09
07	OVC	031			10.00		71	60	64	68	0	00	29.03	29.96	07	CLR	NC			6.00	BR		67	63	64	87	0	00	29.19	30.13
10	OVC	080			10.00		71	61	65	71	5	09	29.04	29.98	10	CLR	NC			10.00			79	65	70	62	7	VR	29.20	30.14
13	SCT	NC			9.00		74	63	67	69	5	VR	29.03	29.96	13	FEW	NC			10.00			84	64	71	51	7	VR	29.16	30.10
16	FEW	NC			10.00		76	64	68	67	3	VR	28.99	29.92	16	FEW	NC			9.00			80	66	71	62	7	33	29.11	30.05
19	OVC	028			8.00		74	66	69	76	7	12	29.00	29.93	19	CLR	NC			10.00			81	67	72	62	3	36	29.08	30.01
22	OVC	060			6.00	BR	69	67	68	93	5	09	29.03	29.97	22	CLR	NC			8.00			73	67	69	81	0	00	29.11	30.05
SUNRISE: 0520 JUN 17 SUNSET: 1956																														
01	OVC	080			4.00	BR	66	65	65	96	0	00	29.04	29.97	01	CLR	NC			8.00			71	66	68	84	3	25	29.13	30.06
04	OVC	004			3.00	BR	66	65	65	96	0	00	29.04	29.98	04	CLR	NC			6.00	BR		68	65	66	90	0	00	29.12	30.06
07	OVC	004			3.00	BR	65	63	64	93	0	00	29.09	30.03	07	CLR	NC			6.00	BR		70	66	67	87	5	VR	29.14	30.07
10	BKN	047			10.00		72	61	65	69	8	07	29.12	30.07	10	BKN	025			7.00			76	66	69	72	5	VR	29.17	30.10
13	BKN	055			9.00		74	58	64	57	7	04	29.12	30.07	13	OVC	038			8.00			82	66	71	58	6	VR	29.11	30.04
16	BKN	080			10.00		75	54	63	48	7	VR	29.12	30.06	16	CLR	NC			8.00			84	67	73	57	5	VR	29.06	29.99
19	CLR	NC			10.00		72	52	60	50	8	03	29.16	30.11	19	CLR	NC			8.00			80	67	71	64	6	21	29.06	29.98
22	CLR	NC			10.00		63	52	57	68	0	00	29.22	30.17	22	CLR	NC			8.00			76	67	70	74	3	23	29.08	30.00
SUNRISE: 0520 JUN 18 SUNSET: 1956																														
01	CLR	NC			10.00		56	52	54	87	0	00	29.24	30.19	01	OVC	045			8.00			74	67	69	79	5	VR	29.07	29.99
04	CLR	NC			10.00		53	51	52	93	3	06	29.24	30.20	04	OVC	035			5.00	-RA BR		71	69	70	94	0	00	29.04	29.96
07	CLR	NC			10.00		58	54	56	87	3	VR	29.29	30.25	07	OVC	028			2.00	-RA BR		70	69	69	97	0	00	29.04	29.97
10	CLR	NC			10.00		71	51	60	49	13	05	29.30	30.26	10	OVC	013			4.00	-RA BR		70	69	69	97	7	21	29.04	29.97
13	CLR	NC			10.00		76	47	60	36	9	03	29.27	30.22	13	OVC	023			10.00			74	70	71	88	7	17	29.00	29.93
16	CLR	NC			10.00		80	48	62	33	9	06	29.22	30.17	16	OVC	028			10.00			78	69	72	74	10	19	28.92	29.85
19	CLR	NC			10.00		76	49	60	39	3	VR	29.22	30.17	19	OVC	041			6.00	-RA BR		74	71	72	91	5	20	28.91	29.84
22	CLR	NC			10.00		64	54	58	70	0	00	29.26	30.21	22	OVC	015			1.00	+RA BR		70	70	70	100	10	17	28.91	29.85

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

JUNE 1999

OQT

WBAN # 53868

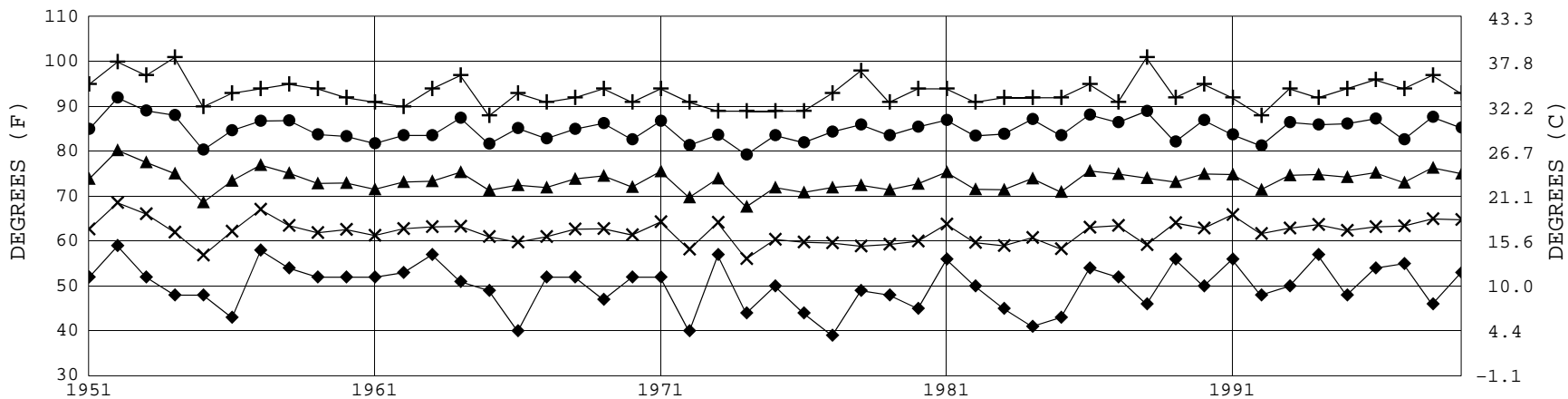
HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)			
	SKY COVER	CEILING 100'S OF FT		OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)		DRY BULB	DEW POINT	WET BULB	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
SUNRISE: 0521				JUN 25	SUNSET: 1957				SUNRISE: JUN 31 SUNSET:																
01	OVC	008	5.00	-RA BR	72	72	72	100	7	22	28.90	29.83													
04	OVC	008	10.00		71	70	70	96	8	23	28.90	29.82													
07	OVC	006	6.00	-RA BR	71	71	71	100	8	21	28.94	29.87													
10	BKN	012	10.00		76	72	73	88	8	22	28.96	29.89													
13	BKN	060	10.00		82	70	74	67	6	VR	28.95	29.88													
16	FEW	NC	10.00		84	71	75	65	5	VR	28.93	29.85													
19	BKN	060	10.00		82	70	74	67	6	VR	28.95	29.87													
22	BKN	085	9.00		76	70	72	82	0	00	28.98	29.90													
SUNRISE: 0522				JUN 26	SUNSET: 1957				SUNRISE: JUN 31 SUNSET:																
01	FEW	NC	5.00	BR	72	71	71	97	0	00	28.98	29.90													
04	FEW	NC	5.00	BR	71	70	70	96	0	00	28.98	29.90													
07	OVC	007	4.00	BR	72	71	71	97	5	VR	29.02	29.94													
10	OVC	012	8.00		76	73	74	91	6	18	29.04	29.96													
13	BKN	090	10.00		79	72	74	79	3	VR	29.01	29.94													
16	BKN	055	10.00		81	74	76	79	0	00	28.97	29.90													
19	CLR	NC	10.00		78	73	75	85	6	22	28.98	29.91													
22	OVC	009	8.00		73	73	73	100	0	00	29.01	29.94													
SUNRISE: 0522				JUN 27	SUNSET: 1958				SUNRISE: JUN 31 SUNSET:																
01	OVC	023	9.00		73	72	72	96	0	00	29.00	29.92													
04	OVC	030	10.00		72	72	72	100	0	00	28.97	29.88													
07	OVC	010	10.00		72	71	71	97	7	18	28.98	29.91													
10	OVC	023	10.00		77	73	74	88	10	20	28.98	29.91													
13	OVC	015	10.00		76	74	75	94	8	21	28.98	29.90													
16	BKN	022	1.00	-RA BR	75	75	75	100	5	23	28.91	29.84													
19	BKN	028	7.00		78	77	77	97	3	10	28.91	29.83													
22	CLR	NC	9.00		76	75	75	97	0	00	28.95	29.88													
SUNRISE: 0522				JUN 28	SUNSET: 1958				SUNRISE: JUN 31 SUNSET:																
01	OVC	009	5.00	BR	75	75	75	100	0	00	28.96	29.88													
04	OVC	007	6.00	BR	75	74	74	96	3	VR	28.95	29.88													
07	OVC	007	7.00		75	74	74	96	3	VR	28.98	29.90													
10	BKN	070	10.00		80	73	75	79	8	23	28.97	29.89													
13	SCT	NC	10.00		87	74	78	65	8	22	28.92	29.83													
16	CLR	NC	10.00		87	71	76	59	13	21	28.87	29.79													
19	SCT	NC	10.00		80	74	76	82	6	27	28.89	29.80													
22	SCT	NC	10.00	-RA	71	70	70	96	5	VR	28.90	29.83													
SUNRISE: 0523				JUN 29	SUNSET: 1958				SUNRISE: JUN 31 SUNSET:																
01	OVC	010	10.00		69	69	69	100	0	00	28.89	29.81													
04	OVC	004	10.00		71	70	70	96	0	00	28.83	29.74													
07	BKN	046	10.00	-RA	72	71	71	97	5	22	28.84	29.76													
10	FEW	NC	10.00		71	70	70	96	3	23	28.88	29.81													
13	BKN	026	10.00		84	74	77	72	9	26	28.86	29.78													
16	CLR	NC	10.00		89	68	75	50	8	28	28.81	29.73													
19	CLR	NC	10.00		84	66	72	55	3	VR	28.85	29.77													
22	CLR	NC	10.00		74	68	70	82	0	00	28.93	29.86													
SUNRISE: 0523				JUN 30	SUNSET: 1958				SUNRISE: JUN 31 SUNSET:																
01	CLR	NC	8.00		70	68	69	93	0	00	28.93	29.85													
04	BKN	003	5.00	BR	66	66	66	100	0	00	28.94	29.86													
07	VV	001	< .25	FG	65	65	65	100	0	00	28.93	29.86													
10	FEW	NC	10.00		77	68	71	74	0	00	28.97	29.90													
13	FEW	NC	10.00		84	64	71	51	9	26	28.97	29.89													
16	CLR	NC	10.00		83	66	72	57	7	20	28.95	29.88													
19	CLR	NC	10.00		81	69	73	67	3	21	28.96	29.89													
22	CLR	NC	10.00		75	69	71	82	5	VR	29.01	29.93													

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.

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			69	65	66	89	29.10	30.03	7.10	1	0	0	0
02			68	65	66	90	29.09	30.03	6.80	1	0	0	0
03			67	65	66	92	29.09	30.02	6.20	1	1	21	
04			67	65	65	92	29.09	30.02	6.13	0	0	0	0
05			66	64	65	94	29.10	30.03	5.30	1	0	0	0
06			66	64	65	94	29.11	30.05	3.97	1	0	0	0
07			67	65	66	92	29.12	30.06	4.79	1	1	19	
08			70	65	67	85	29.13	30.07	6.18	2	1	20	
09			73	65	68	77	29.14	30.07	7.96	3	1	16	
10			76	65	69	72	29.14	30.07	8.27	4	1	16	
11			78	66	70	67	29.13	30.07	8.67	4	2	18	
12			80	65	70	63	29.12	30.06	8.97	4	1	19	
13			81	65	71	59	29.11	30.04	9.00	4	1	21	
14			83	64	71	56	29.09	30.02	8.97	3	1	19	
15			83	64	71	55	29.08	30.01	9.00	4	1	26	
16			82	64	71	56	29.06	29.99	9.00	4	1	16	
17			82	64	70	57	29.06	29.99	8.75	4	0	0	0
18			81	64	70	60	29.06	29.99	9.30	3	1	7	
19			79	65	70	64	29.06	30.00	9.03	3	0	0	0
20			77	66	70	70	29.07	30.00	8.32	1	1	19	
21			74	66	69	78	29.08	30.01	8.10	2	1	19	
22			72	66	68	82	29.10	30.03	8.10	1	1	15	
23			71	66	67	85	29.10	30.03	7.58	1	0	0	0
24			69	66	67	88	29.10	30.03	7.20	1	0	0	0

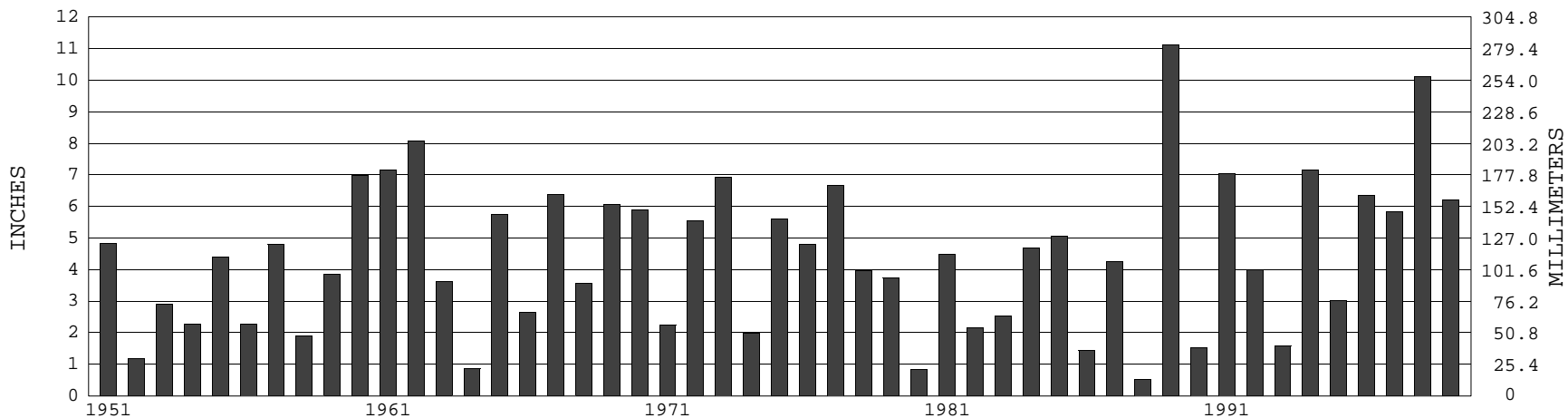
OAK RIDGE, TN JUNE TEMPERATURES



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

Long-Term (1951-1999) Mean: 73.5 1961-1990 Normal: 72.4

OAK RIDGE, TN JUNE PRECIPITATION



Long-Term (1951-1999) Mean Monthly Total: 4.43

1961-1990 Normal: 4.34



JUNE 1999
OAK RIDGE, TN

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.

DIRECTOR

NOTICE

Effective July 1, 1996, the National Weather Service & Federal Aviation Administration began using the METAR format for Hourly Observations.

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