



AUGUST 2006 LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

OAK RIDGE, TN
OAK RIDGE (KOQT)
Lat:36° 1' N Long: 84° 14' W Elev (Ground) 910 Feet
Time Zone : EASTERN WBAN: 53868 ISSN#: 0198-487X



Date 1	Temperature °F						Deg Days BASE 65°		WEATHER 10	SNOW/ICE ON GND(IN)		PRECIPITATION ON GND(IN)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								Date 24
	MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEP FROM NORMAL 5	AVERAGE DEW PT 6	AVERAGE WET BULB 7	HEATING 8	COOLING 9		0700 LST	1300 LST	2400 LST	2400 LST	AVERAGE STATION 15	AVERAGE SEA LEVEL 16	RESULTANT SPEED 17	RES DIR 18	AVERAGE SPEED 19	MAXIMUM					
																			5-SEC		2-MIN			
																			SPEED 20	DIR 21	SPEED 22	DIR 23		
01	94	72	83	5	71	74	0	18	FG+ FG BR HZ			0.00	29.10	30.02	0.1	15	1.4	10	33	8	13	01		
02	93	74	84	6	73	75	0	19	RA BR HZ			0.58	29.10	30.01	0.2	30	1.0	17	33	14	32	02		
03	96	75	86*	9	70	74	0	21	RA BR			T	29.04	29.96	1.4	23	2.5	14	28	10	27	03		
04	92	72	82	5	70	73	0	17	RA BR			0.43	29.05	29.98	0.7	19	1.2	23	34	17	35	04		
05	94	72	83	6	71	74	0	18	BR			0.00	29.05	29.99	1.2	07	3.4	17	21	13	19	05		
06	93	72	83	6	71	73	0	18	RA BR			0.62	29.15	30.09	0.6	20	1.6	23	04	17	06	06		
07	95	72	84	7	70	74	0	19	BR HZ			0.00	29.21	30.14	0.4	26	2.2	16	23	10	23	07		
08	94	72	83	6	70	73	0	18	RA FG+ BR			T	29.17	30.09	0.6	02	1.8	24*	01	18*	36	08		
09	93	70	82	5	69	72	0	17	FG+ FG BR			0.00	29.11	30.03	0.7	10	1.6	16	03	12	02	09		
10	97*	71	84	7	70	73	0	19	RA BR			0.64	28.99	29.91	0.8	09	3.0	21	35	15	35	10		
11	80	70	75	-2	69	71	0	10	RA BR			0.21	28.95	29.88	0.4	16	0.9	9	29	7	27	11		
12	87	71	79	2	69	71	0	14	RA BR			0.09	28.98	29.92	1.2	06	2.8	13	06	9	08	12		
13	84	69	77	0	67	70	0	12	RA			0.01	29.10	30.04	1.6	22	3.0	12	28	9	20	13		
14	90	71	81	4	67	71	0	16				0.00	29.09	30.01	1.4	23	2.9	14	22	12	20	14		
15	87	73	80	3	71	73	0	15	RA BR HZ			0.37	29.03	29.96	0.9	18	2.0	21	27	13	27	15		
16	90	70	80	4	67	71	0	15	BR			0.00	29.10	30.03	1.7	05	3.3	16	06	13	06	16		
17	91	69	80	4	68	72	0	15	BR			0.00	29.15	30.08	0.6	09	1.4	9	06	8	07	17		
18	89	70	80	4	69	72	0	15	RA FG BR HZ			T	29.15	30.07	0.2	16	1.3	9	33	7	32	18		
19	90	70	80	4	69	72	0	15	RA BR HZ			T	29.08	30.01	0.1	11	2.6	15	21	12	20	19		
20	81	69	75*	-1	70	71	0	10	RA FG+ FG BR			0.73	29.07	30.00	0.4	32	1.6	13	35	9	34	20		
21	87	70	79	3	70	72	0	14	BR HZ			0.00	29.12	30.06	0.1	14	1.0	10	21	7	28	21		
22	87	71	79	3	68	71	0	14	RA BR HZ			0.27	29.12	30.05	0.3	04	1.3	9	36	7	35	22		
23	86	65	76	1	61	66	0	11	BR HZ			0.00	29.08	30.00	1.6	07	2.7	13	06	12	07	23		
24	89	65*	77	2	64	68	0	12	BR HZ			0.00	29.02	29.94	0.8	06	2.1	10	07	9	06	24		
25	90	68	79	4	67	71	0	14	BR HZ			0.00	29.03	29.96	0.1	18	1.2	10	18	8	19	25		
26	90	69	80	5	67	71	0	15	BR HZ			0.00	29.08	30.01	0.8	18	1.8	12	22	8	17	26		
27	91	69	80	5	67	71	0	15	BR HZ			0.00	29.08	30.00	1.4	18	2.5	13	15	9	20	27		
28	85	71	78	3	69	72	0	13	RA BR HZ			0.20	29.00	29.92	1.4	20	2.1	14	20	10	16	28		
29	87	71	79	4	71	73	0	14	RA			0.13	28.94	29.86	0.9	17	2.4	15	19	12	20	29		
30	88	71	80	6	67	70	0	15	RA			T	28.92	29.85	0.6	24	1.5	12	20	9	26	30		
31	81	71	76	2	68	70	0	11	RA BR			0.75	28.94	29.87	1.4	07	2.5	16	11	13	06	31		
89.4		70.5	80.0	☼	68.7	71.7	0.0	15.1	< MONTHLY AVERAGES TOTALS >				5.03	29.07	29.99	0.3	14	2.0	< MONTHLY AVERAGES					
2.2	5.3	3.8	<----- DEPARTURE FROM NORMAL ----->						1.64	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3														
DEGREE DAYS								GREATEST 24-HR PRECIPITATION : 0.75 DATE : 31				SEA LEVEL PRESSURE				DATE TIME								
MONTHLY				SEASON TO DATE				GREATEST 24-HR SNOWFALL :				MAXIMUM :				30.19 07 1053								
TOTAL DEPARTURE				TOTAL DEPARTURE				GREATEST SNOW DEPTH :				MINIMUM :				29.77 10 1653								
HEATING :		0 0		0 0		0 0		NUMBER OF ->		MAXIMUM TEMP >= 90 : 17		MINIMUM TEMP <= 32 : 0		PRECIPITATION >= 0.01 INCH: 13		PRECIPITATION >= 0.10 INCH: 11		SNOWFALL >= 1.0 INCH :						
COOLING :		469 122		1376 279				THUNDERSTORMS : 0		HEAVY FOG : 4														

AUGUST 2006
OAK RIDGE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)
AUGUST 2006

WBAN # 53868

Date	FOR HOUR (LST) ENDING AT												Date	FOR HOUR (LST) ENDING AT												Date	Sum of Hourly Data	2400 LST Water Equiv.
	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													01												01	0.00	0.00	
02													02		0.58										02	0.58	0.58	
03													03	T											03	T	T	
04													04	0.01	0.41	0.01	T	T							04	0.43	0.43	
05													05												05	0.00	0.00	
06													06				T	0.33	0.29						06	0.62	0.62	
07													07				T	T							07	0.00	0.00	
08													08				T	T							08	T	T	
09													09												09	0.00	0.00	
10													10	T							0.36	0.23	0.05	T	10	0.64	0.64	
11													11												11	0.21	0.21	
12	T												12			T					0.11	0.07	0.02	0.01	12	0.09	0.09	
13	0.01												13												13	0.01	0.01	
14													14												14	0.00	0.00	
15													15				0.10	0.03	T	0.03			T		15	0.37	0.37	
16													16												16	0.00	0.00	
17													17												17	0.00	0.00	
18													18												18	T	T	
19													19				T	T	T				T		19	T	T	
20													20				T	T	T						20	0.73	0.73	
21													21												21	0.00	0.00	
22													22												22	0.27	0.27	
23													23												23	0.00	0.00	
24													24												24	0.00	0.00	
25													25												25	0.00	0.00	
26													26												26	0.00	0.00	
27													27												27	0.00	0.00	
28													28				T	T							28	0.20	0.20	
29	0.01	T											29	0.02	T	0.03					0.04		T		29	0.13	0.13	
30													30												30	T	T	
31	T												31												31	0.75	0.75	

* Indicates sum of Hourly and Daily disagree.

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	0.29	0.44	0.55	0.59	0.60	0.64	0.71	0.72	0.72	0.72	0.72	0.72
Ending Date	20	20	20	20	20	20	20	20	20	20	20	20
Ending Time (Hr/Min)	1159	1204	1209	1213	1221	1208	1221	1221	1221	1221	1221	1221

Note : The hourly and daily precipitation totals are printed in the last 2 columns and hi-lighted in red when they disagree. 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.

Date and time are not entered for TRACE amounts.

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		
DESCRIPTOR	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 Unkown Precipitation		

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

OAK RIDGE, TN AUGUST 2006

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	
			Sky Cover	Satellite	Sky Cover	Satellite			
01							1.25	10.00	
02							3.00	10.00	
03							6.00	10.00	
04							3.00	10.00	
05							0.75	10.00	
06							4.00	10.00	
07							3.00	10.00	
08							0.25	10.00	
09							0.25	10.00	
10							3.00	10.00	
11							3.00	10.00	
12							4.00	10.00	
13							8.00	10.00	
14							9.00	10.00	
15							1.50	10.00	
16							6.00	10.00	
17							5.00	10.00	
18							0.50	9.00	
19							4.00	10.00	
20							1.00	10.00	
21							1.00	10.00	
22							2.50	10.00	
23							4.00	10.00	
24							5.00	10.00	
25							2.00	10.00	
26							4.00	10.00	
27							5.00	10.00	
28							4.00	10.00	
29							5.00	10.00	
30							10.00	10.00	
31							2.00	10.00	
MONTHLY AVGS							3.58	9.97	
SUNSHINE (Minutes)									
Total :					Possible :				
Percent Possible :									
NUMBER OF DAYS WITH :									
SKY CONDITION									
Clear		Partly CLDY			Cloudy			Missing	
MINIMUM VISIBILITY (MILES)									
<= .25		<= 3.0			>= 7.0				
2		16			3				

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN AUGUST 2006

KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND	PRESSURE (INCHES, HG)					
			Observation Time (LST)	Eff Clد Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
<p align="center">SUNRISE: 0602 AUG 25 SUNSET: 1914</p>															
01	SCT	060				73	68	70	84	0	00	29.02	29.94		
04	CLR	NC			HZ	71	67	68	87	0	00	29.04	29.96		
07	CLR	NC			BR	69	66	67	90	0	00	29.07	29.99		
10	CLR	NC				81	67	72	63	3	VR	29.09	30.01		
13	FEW	037				87	67	73	52	5	VR	29.05	29.96		
16	CLR	NC				89	65	73	45	3	VR	29.02	29.93		
19	CLR	NC				86	67	73	53	0	00	29.02	29.93		
22	BKN	050				78	70	73	77	0	00	29.07	29.98		
<p align="center">SUNRISE: 0603 AUG 26 SUNSET: 1913</p>															
01	CLR	NC				74	69	71	84	0	00	29.06	29.98		
04	CLR	NC			BR	72	68	69	87	0	00	29.07	29.99		
07	CLR	NC			BR	70	67	68	90	0	00	29.12	30.04		
10	FEW	100				81	67	72	63	5	VR	29.16	30.08		
13	FEW	046				86	65	72	50	3	VR	29.12	30.03		
16	FEW	055				89	64	72	44	5	14	29.06	29.98		
19	CLR	NC				82	68	73	63	0	00	29.05	29.98		
22	CLR	NC				75	69	71	82	0	00	29.08	30.01		
<p align="center">SUNRISE: 0604 AUG 27 SUNSET: 1912</p>															
01	CLR	NC			HZ	73	68	70	84	0	00	29.09	30.01		
04	CLR	NC			HZ	71	66	68	84	0	00	29.10	30.03		
07	CLR	NC				70	65	67	84	0	00	29.13	30.06		
10	CLR	NC				82	66	71	58	6	19	29.14	30.06		
13	FEW	044				88	67	74	50	3	VR	29.10	30.02		
16	BKN	055				91	66	74	44	9	19	29.03	29.95		
19	CLR	NC				88	65	73	47	0	00	29.02	29.93		
22	SCT	060				78	69	72	74	0	00	29.06	29.97		
<p align="center">SUNRISE: 0605 AUG 28 SUNSET: 1910</p>															
01	FEW	055				77	69	72	76	0	00	29.08	29.99		
04	CLR	NC				73	68	70	84	0	00	29.04	29.95		
07	BKN	055			HZ	73	67	69	82	0	00	29.05	29.97		
10	OVC	043				80	66	71	62	3	VR	29.05	29.97		
13	BKN	046				84	67	73	57	5	VR	29.01	29.93		
16	FEW	055				84	71	75	65	0	00	28.96	29.87		
19	FEW	034				83	72	75	70	0	00	28.91	29.83		
22	OVC	070			RA BR	75	72	73	90	9	22	28.98	29.90		
<p align="center">SUNRISE: 0606 AUG 29 SUNSET: 1909</p>															
01	OVC	007			-RA	73	71	72	93	0	00	28.97	29.88		
04	BKN	060				73	71	72	93	0	00	28.94	29.86		
07	BKN	007				73	71	72	93	0	00	28.96	29.88		
10	BKN	016				79	71	74	77	5	VR	28.97	29.89		
13	SCT	044				85	74	77	70	5	20	28.94	29.86		
16	CLR	NC				85	71	75	63	5	VR	28.88	29.80		
19	OVC	100			-RA	77	71	73	82	3	VR	28.91	29.83		
22	BKN	110				73	70	71	90	0	00	28.95	29.88		
<p align="center">SUNRISE: 0606 AUG 30 SUNSET: 1908</p>															
01	CLR	NC				71	69	70	93	0	00	28.93	29.85		
04	BKN	075				71	69	70	93	0	00	28.93	29.85		
07	FEW	024				71	69	70	93	0	00	28.94	29.87		
10	OVC	027				77	70	72	79	0	00	28.96	29.89		
13	FEW	038				85	66	72	53	3	VR	28.95	29.87		
16	FEW	075				87	60	70	40	6	29	28.89	29.80		
19	FEW	050				81	64	70	56	3	VR	28.91	29.83		
22	CLR	NC				74	67	69	79	0	00	28.93	29.85		

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND	PRESSURE (INCHES, HG)					
			Observation Time (LST)	Eff Clد Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
<p align="center">SUNRISE: 0607 AUG 31 SUNSET: 1906</p>															
01	FEW	110				74	68	70	82	0	00	28.92	29.83		
04	OVC	100			BR	71	69	70	93	0	00	28.91	29.82		
07	OVC	024			RA BR	71	69	70	93	0	00	28.94	29.86		
10	SCT	022			-RA	72	69	70	90	3	VR	28.97	29.90		
13	BKN	036				77	68	71	74	7	07	28.97	29.90		
16	SCT	055				77	68	71	74	10	07	28.94	29.87		
19	BKN	038				75	69	71	82	0	00	28.93	29.86		
22	OVC	038				73	68	70	84	3	VR	28.96	29.89		

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, W = 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.

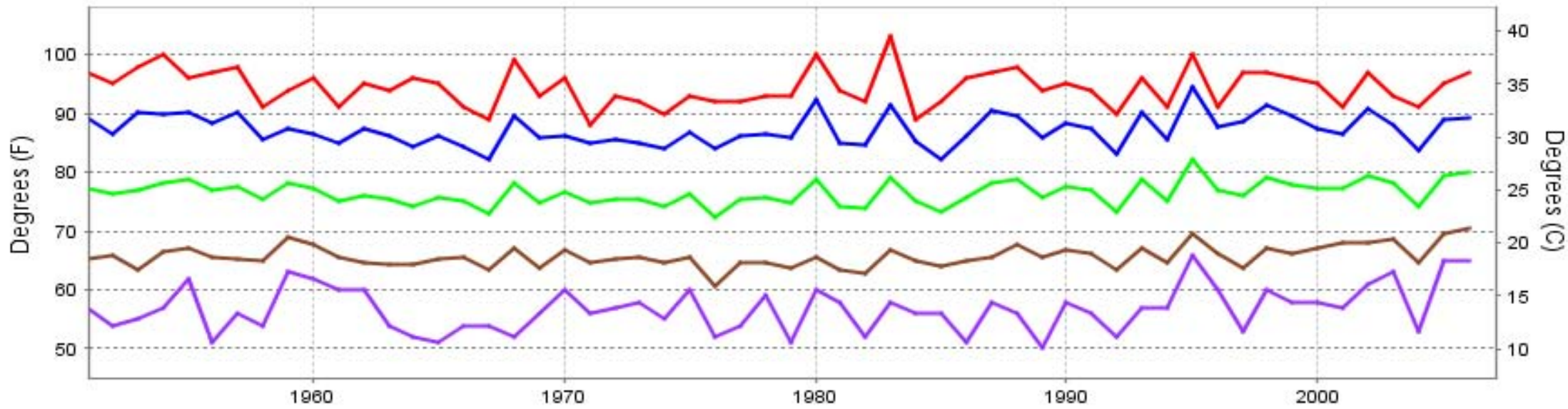
& = Original observation contained additional weather elements.

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)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			74	69	71	86	29.07	29.99	7.60	0	xxx	xx
02			73	69	71	88	29.06	29.98	7.05	0	xx	xx
03			72	69	70	89	29.06	29.98	7.03	0	xxx	xx
04			72	69	70	89	29.07	29.98	7.03	0	xx	xx
05			71	68	70	90	29.07	29.99	6.61	1	1	25
06			71	68	69	91	29.08	30.01	5.72	0	xx	xx
07			72	68	69	89	29.09	30.02	5.42	0	xxx	xx
08			74	69	71	84	29.10	30.03	6.93	2	0	12
09			77	69	71	75	29.11	30.03	8.42	3	2	10
10			80	69	72	69	29.11	30.03	9.07	3	2	10
11			83	69	73	64	29.11	30.03	9.29	4	0	15
12			84	69	74	61	29.10	30.02	9.35	5	1	10
13			86	68	74	57	29.08	30.00	9.45	5	0	11
14			86	68	74	57	29.07	29.99	9.13	4	0	23
15			86	68	74	56	29.05	29.97	9.35	4	1	12
16			86	68	74	55	29.04	29.95	9.39	4	1	11
17			86	68	74	57	29.03	29.95	9.55	3	0	16
18			84	69	74	61	29.03	29.95	9.35	3	1	10
19			82	68	73	66	29.03	29.96	8.94	2	1	12
20			79	69	73	72	29.04	29.97	9.29	1	3	09
21			77	70	72	77	29.06	29.98	8.48	1	3	10
22			76	70	72	82	29.07	29.99	8.16	1	xxx	xx
23			75	69	71	83	29.07	29.99	8.45	0	xx	xx
24			74	69	71	85	29.07	29.99	7.77	0	xxx	xx

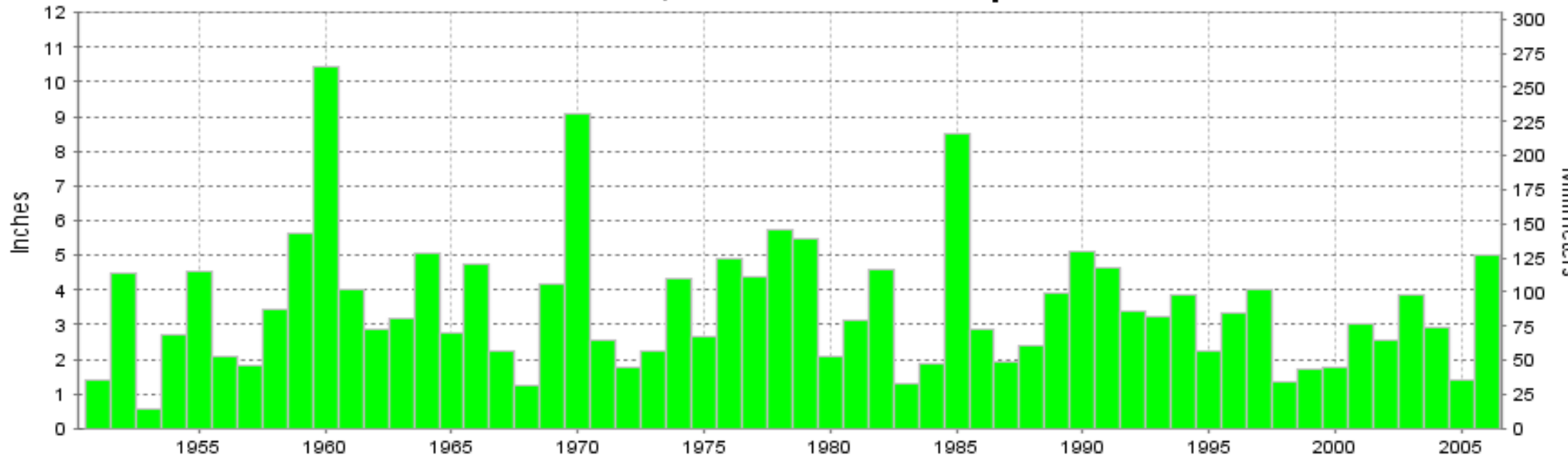
OAK RIDGE, TN AUGUST Temperatures



— Extreme Max — Mean Max — Mean — Mean Min — Extreme Min

Long-Term (1951-2006) Mean: 76.5
 1971-2000 Normal: 76.2

OAK RIDGE, TN AUGUST Precipitation



Long-Term (1951-2006) Mean Monthly Total: 3.51

1971-2000 Normal: 3.39



**AUGUST 2006
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.

Thomas R. Karl
DIRECTOR

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