



SEPTEMBER 2013 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



SEPTEMBER 2013
OAK RIDGE, TN

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		LST 11	LST 12	LST 13	LST 14	AVERAGE STATION 15	AVERAGE SEA LEVEL 16	RESULTANT SPEED 17	RES DIR 18	AVERAGE SPEED 19	MAXIMUM								
																			3-SEC		2-MIN						
																			SPEED 20	DIR 21	SPEED 22	DIR 23					
01	88	70	79	5	69	72	0	14	RA BR			0.06	28.94	29.86	0.9	22	2.6	23*	26	14*	28	01					
02	85	71	78	4	70	72	0	13	RA BR			T	28.95	29.88	1.3	24	2.5	15	21	10	20	02					
03	86	66	76	2	67	70	0	11	RA BR			0.28	28.98	29.94	0.5	08	1.6	16	03	9	05	03					
04	86	62	74	1	62	66	0	9				0.00	29.13	30.07	0.1	04	1.1	10	28	7	31	04					
05	85	61	73	0	60	64	0	8				0.00	29.20	30.14	0.8	06	1.5	15	08	10	07	05					
06	86	63	75	2	63	67	0	10				0.00	29.18	30.12			1.4	13	10	8	06	06					
07	87	62	75	2	65	68	0	10	FG+ FG BR			0.00	29.13	30.06	0.5	23	1.5	14	28	9	21	07					
08	88	66	77	5	68	71	0	12	RA FG+ BR			T	29.05	29.98	0.2	10	0.5	12	08	8	08	08					
09	90	68	79	7	69	71	0	14	FG+ FG BR			0.00	29.11	30.05	0.4	15	1.6	13	15	7	21	09					
10	91*	68	80*	8	67	71	0	15	BR			0.00	29.22	30.16	0.8	19	1.4	14	15	9	18	10					
11	90	68	79	7	69	71	0	14	BR			0.00	29.23	30.15	0.3	16	1.2	13	22	9	20	11					
12	90	68	79	8	69	71	0	14	RA FG BR			0.08	29.07	29.99	0.3	20	1.4	15	16	12	15	12					
13	80	59	70	-1	57	62	0	5	FG+ FG BR			0.00	28.99	29.94	0.3	35	1.8	14	08	8	36	13					
14	76	52	64	-7	50	56	1	0				0.00	29.09	30.06	1.8	07	2.4	16	07	12	07	14					
15	82	53	68	-2	57	61	0	3				0.00	29.17	30.13	0.3	09	1.7	15	20	9	17	15					
16	83	59	71	1	60	63	0	6	FG+ FG BR			0.00	29.19	30.15	0.5	06	1.6	14	02	8	01	16					
17	81	64	73	3	61	65	0	8				0.00	29.23	30.17	0.8	06	2.2	14	07	9	07	17					
18	76	64	70	0	61	64	0	5	BR			0.00	29.23	30.17	0.3	20	1.4	13	25	8	26	18					
19	84	61	73	4	63	66	0	8	FG+ FG BR			0.00	29.18	30.12	0.2	18	1.2	16	22	8	15	19					
20	85	62	74	5	63	67	0	9	FG BR			0.00	29.06	29.98	1.1	19	2.1	15	16	10	16	20					
21	73	58	66	-2	64	65	0	1	RA FG+ FG BR			2.34	28.86	29.79	0.3	08	1.0	21	26	12	25	21					
22	76	52*	64*	-4	53	57	1	0	FG+ FG BR			0.00	28.93	29.90	1.5	07	2.2	18	10	12	07	22					
23	80	54	67	-1	56	60	0	2				0.00	29.03	30.00	0.4	07	1.4	14	20	9	20	23					
24	79	59	69	2	61	64	0	4	FG+ BR			0.00	29.03	29.97	0.3	18	1.2	12	08	8	25	24					
25	71	65	68	1	65	66	0	3	RA BR			0.62	28.92	29.86	0.2	08	0.3	7	06	6	08	25					
26	80	60	70	3	61	64	0	5	FG+ FG BR			0.00	29.01	29.96	0.2	07	1.2	12	06	8	08	26					
27	81	55	68	2	58	61	0	3	FG BR			0.00	29.15		0.5	09	0.8	12	07	8	09	27					
28	78	56	67	1	58	61	0	2	FG+ FG BR			0.00	29.20	30.16	0.1	08	0.5	10	08	7	11	28					
29	73	57	65	0	57	60	0	0	BR			0.00	29.15	30.10	0.8	21	1.9	12	22	8	20	29					
30	77	56	67	2	57	60	0	2	FG+ FG BR			0.00	29.10	30.06			0.7	12	26	9	27	30					
82.2				61.3				71.8		☼	62.0		65.2		0.1		7.0		< MONTHLY AVERAGES TOTALS >								
0.5				1.6				1.1			<-----DEPARTURE FROM NORMAL----->								-0.30		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3						
DEGREE DAYS										GREATEST 24-HR PRECIPITATION : 2.34 DATE : 21				SEA LEVEL PRESSURE				DATE TIME									
MONTHLY					SEASON TO DATE					GREATEST 24-HR SNOWFALL :				MAXIMUM :				30.24 28 0953									
TOTAL DEPARTURE					TOTAL DEPARTURE					GREATEST SNOW DEPTH :				MINIMUM :				29.74 21 0553									
HEATING :		2 -19		2 -19		NUMBER OF DAYS WITH		MAXIMUM TEMP >= 90 :		4		MINIMUM TEMP <= 32 :		0		PRECIPITATION >= 0.01 INCH :		5									
COOLING :		210 18		1414 -36		MAXIMUM TEMP <= 32 :		0		MINIMUM TEMP <= 0 :		0		PRECIPITATION >= 0.10 INCH :		3											
						THUNDERSTORMS :		0		HEAVY FOG :		12		SNOWFALL >= 1.0 INCH :													

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

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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							0.05	0.01					01				T								01	0.06	0.06	
02													02			T	T								02	T	T	
03		0.02	0.26										03												03	0.28	0.28	
04													04												04	0.00	0.00	
05													05												05	0.00	0.00	
06													06												06	0.00	0.00	
07													07												07	0.00	0.00	
08													08	T											08	T	T	
09													09												09	0.00	0.00	
10													10												10	0.00	0.00	
11													11												11	0.00	0.00	
12													12					T	T			0.08	T	12	0.08	0.08		
13													13												13	0.00	0.00	
14													14												14	0.00	0.00	
15													15												15	0.00	0.00	
16													16												16	0.00	0.00	
17													17												17	0.00	0.00	
18													18												18	0.00	0.00	
19													19												19	0.00	0.00	
20													20												20	0.00	0.00	
21			T	T	0.01	0.07	0.31	0.62	0.58	0.36	0.21	0.12	21	T			0.01	0.03	0.02					21	2.34	2.34		
22													22												22	0.00	0.00	
23													23												23	0.00	0.00	
24													24												24	0.00	0.00	
25		T	0.01	0.04	0.08	0.13	0.25	0.07	T	0.01	0.03	T	25											25	0.62	0.62		
26													26												26	0.00	0.00	
27													27												27	0.00	0.00	
28													28												28	0.00	0.00	
29													29												29	0.00	0.00	
30													30												30	0.00	0.00	

* 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)												
Ending Date												
Ending Time (Hr/Min)												

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.

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).

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	
VC In the Vicinity	UP Unkown Precipitation		GL Glaze

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

OAK RIDGE, TN SEPTEMBER 2013

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet.

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.

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

NORMALS ARE FOR THE YEARS 1981-2010

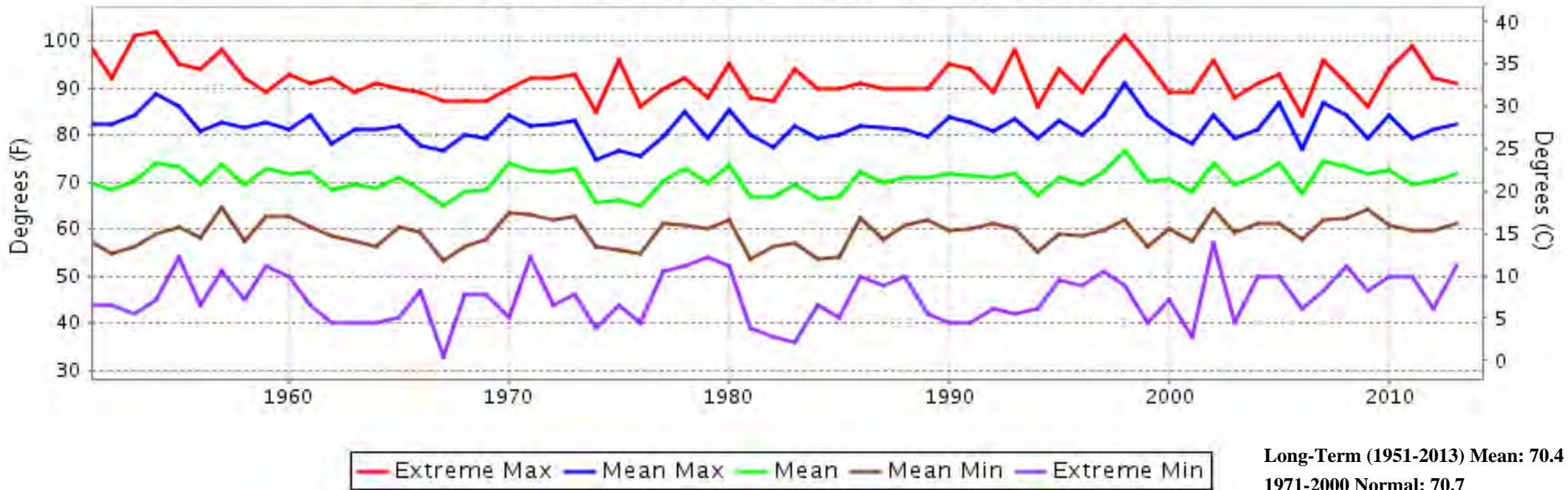
ADDITIONAL NOTES & ERRATA:

Station Augmentation-OAK RIDGE ATDD COOP
Lat/Lon:36.00278/-84.24861 Elevation:905FT
Distance:1.5 MI Dir:SW
Augmented Elements:Temp,Precip,Snow
Equipment:Pcpn-Model TRP525M, Temp Vaisala HMP35C,
Snow Board, Snow Stick

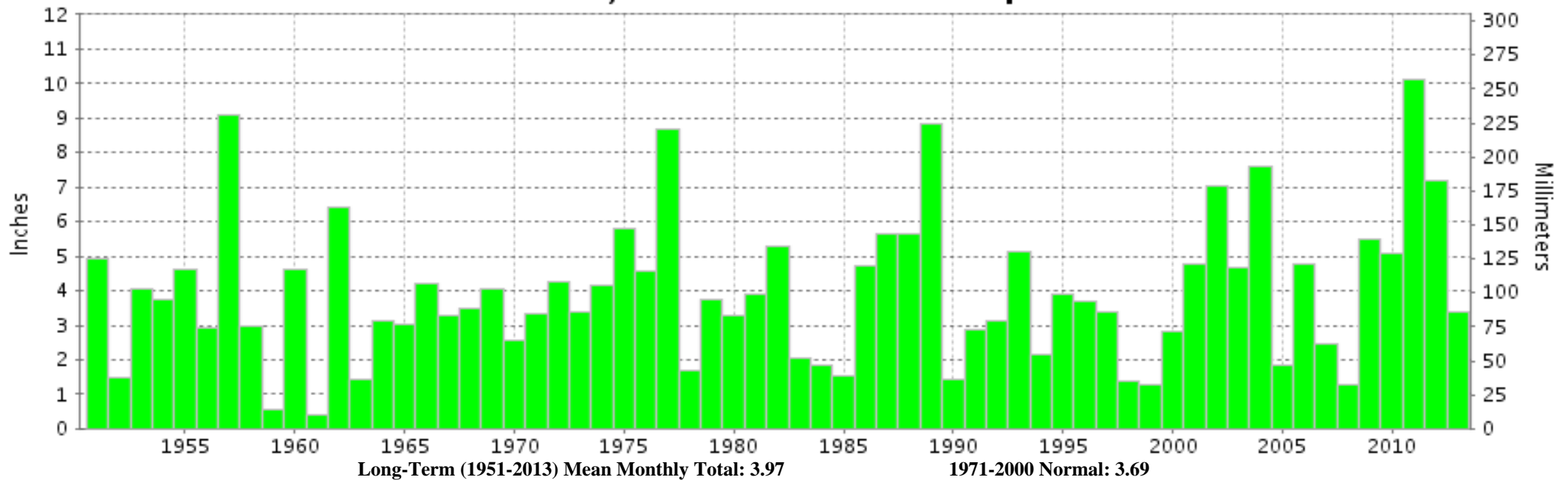
Beginning with the January 2013 LCD, monthly mean temperature calculations have changed to the National Data Stewardship Team standard. Monthly maximum and minimum temperature are not rounded until after monthly mean temperature is calculated. This is the most accurate outcome, but may be slightly different from the mean derived from rounded monthly maximum and minimum.

Date	VISIBILITY (MILES)	
	MINIMUM	MAXIMUM
01	9.00	10.00
02	1.75	10.00
03	5.00	10.00
04	9.00	10.00
05	9.00	10.00
06	9.00	10.00
07	0.25	10.00
08	3.00	10.00
09	0.25	10.00
10	6.00	10.00
11	6.00	10.00
12	0.50	10.00
13	0.50	10.00
14	10.00	10.00
15	9.00	10.00
16	0.25	10.00
17	10.00	10.00
18	6.00	10.00
19	0.25	10.00
20	1.50	10.00
21	0.25	10.00
22	0.25	10.00
23	10.00	10.00
24	0.25	10.00
25	1.25	10.00
26	0.25	10.00
27	0.50	10.00
28	0.25	10.00
29	5.00	10.00
30	0.00	10.00
AVGS	3.81	10.00
MINIMUM VISIBILITY (MILES)		
	<= .25	<= 3.0 >= 7.0
10	17	8

OAK RIDGE, TN SEPTEMBER Temperatures



OAK RIDGE, TN SEPTEMBER Precipitation





**SEPTEMBER 2013
OAK RIDGE, TN**

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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.

A handwritten signature in black ink, appearing to read "Thomas R. Karl".

DIRECTOR

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