



# SEPTEMBER 2016 LOCAL CLIMATOLOGICAL DATA

NOAA, National Centers for Environmental Information

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		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			
2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	20	21	22	23				
01	88	72	80	6	69	72	0	15	RA BR			0.30	28.98	29.90	0.5	07	1.2	15	34	10	09	01		
02	87	69	78	4	61	66	0	13				0.00	29.00	29.94	1.4	06	4.4	20	07	13	07	02		
03	86	62	74	0	58	64	0	9				0.00	29.11	30.07	0.7	08	2.2	12	13	9	08	03		
04	90	63	77	4	60	65	0	12				0.00	29.21	30.16	0.1	07	0.7	10	08	7	08	04		
05	91	64	78	5	61	67	0	13				0.00	29.26	30.20	0.4	15	1.3	12	11	8	09	05		
06	94	64	79	6	61	67	0	14				0.00	29.26	30.18	0.5	12	0.8	12	08	8	10	06		
07	95	65	80	7	63	69	0	15				0.00	29.21	30.14	0.5	25	1.2	11	28	8	19	07		
08	94	66	80	8	64	69	0	15				0.00	29.11	30.03	0.2	26	1.4	14	19	9	26	08		
09	95*	67	81	9	63	69	0	16				0.00	29.08	30.01	1.0	25	1.9	15	19	10	27	09		
10	93	67	80	8	63	68	0	15	RA			0.02	29.08	30.01	0.7	26	2.6	28*	27	17*	29	10		
11	85	66	76	4	57	65	0	11				0.00	29.16	30.10	0.5	08	2.3	14	08	10	07	11		
12	93	58	76	5	56	63	0	11				0.00	29.15	30.09	0.1	30	1.1	14	26	9	27	12		
13	93	65	79	8	63	68	0	14				0.00	29.18	30.11	0.9	10	1.6	14	15	9	15	13		
14	94	67	81	10	65	69	0	16	RA			T	29.18	30.10	0.3	24	1.2	20	28	13	30	14		
15	94	66	80	10	59	67	0	15				0.00	29.15	30.07	0.6	07	1.5	12	07	8	06	15		
16	94	66	80	10	63	69	0	15	RA			T	29.15	30.08	0.8	22	2.4	24	20	13	20	16		
17	92	67	80	10	62	69	0	15	BR			0.00	29.13	30.05	1.5	21	2.9	19	19	14	15	17		
18	80	67	74	4	66	68	0	9	RA FG BR			1.57	29.07	29.99	0.4	16	1.1	11	28	8	26	18		
19	87	66	77	8	65	68	0	12	FG BR			0.00	29.07	30.02	0.7	06	1.2	16	09	10	08	19		
20	89	64	77	8	62	67	0	12				0.00	29.13	30.08	1.2	08	2.0	16	08	12	08	20		
21	90	64	77	9	60	66	0	12				0.00	29.15	30.08	0.6	06	1.6	14	08	9	07	21		
22	91	64	78	10	61	67	0	13				0.00	29.11	30.05	1.1	07	1.9	14	09	10	08	22		
23	91	64	78	10	64	68	0	13				0.00	29.11	30.05			0.8		5	9	09	23		
24	92	65	79	12	64	68	0	14	FG+ BR			0.00	29.13	30.06	0.1	15	1.1	9	08	5	09	24		
25	94	67	81*	14	64	69	0	16				0.00	29.11	30.04	0.1	20	1.5	11	20	8	25	25		
26	85	69	77	10	66	69	0	12	RA			0.08	29.08	30.01	1.5	22	2.6	22	27	15	27	26		
27	82	57	70	4	52	59	0	5				0.00	29.02	29.95	0.5	08	2.2	12	09	8	26	27		
28	83	50	67	1	48	56	0	2				0.00	28.97	29.92	0.7	21	2.1	17	20	12	18	28		
29	70	51	61	-4	50	55	4	0	RA			T	29.05	30.01	0.7	33	1.8	12	30	8	30	29		
30	74	48*	61*	-4	47	53	4	0				0.00	29.08	30.05	0.9	26	1.7	16	28	12	26	30		

88.9	63.7	76.3	☼	60.6	66.0	0.3	11.8	< MONTHLY AVERAGES   TOTALS >				1.97	29.11	30.05	0.1	14	1.7	< MONTHLY AVERAGES			
7.2	4.0	5.6		-----DEPARTURE FROM NORMAL -----										-1.72	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3						
<b>DEGREE DAYS</b>								GREATEST 24-HR PRECIPITATION : 1.57 DATE : 18				SEA LEVEL PRESSURE				DATE TIME					
MONTHLY TOTAL DEPARTURE				SEASON TO DATE TOTAL DEPARTURE				GREATEST 24-HR SNOWFALL : DATE :				MAXIMUM : 30.26 05 0953				MINIMUM : 29.86 28 1714					
GREATEST SNOW DEPTH :				NUMBER OF DAYS WITH ->				MAXIMUM TEMP >= 90 : 18				MINIMUM TEMP <= 32 : 0				PRECIPITATION >= 0.01 INCH : 4					
HEATING : 8 -13				COOLING : 354 162				THUNDERSTORMS : 0				MINIMUM TEMP <= 0 : 0				PRECIPITATION >= 0.10 INCH : 2					
2020 570												HEAVY FOG : 1				SNOWFALL >= 1.0 INCH :					

**SEPTEMBER 2016  
OAK RIDGE, TN**

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)  
SEPTEMBER 2016

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	0.26	0.04											01	0.30	0.30
02													02													02	0.00	0.00
03													03													03	0.00	0.00
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													08	0.00	0.00
09													09													09	0.00	0.00
10													10						0.02	T						10	0.02	0.02
11													11													11	0.00	0.00
12													12													12	0.00	0.00
13													13													13	0.00	0.00
14													14			T										14	T	T
15													15													15	0.00	0.00
16													16													16	T	T
17													17													17	0.00	0.00
18													18	0.09	0.24	0.55	0.39	0.14	0.04							18	1.57	1.57
19													19													19	0.00	0.00
20													20													20	0.00	0.00
21													21													21	0.00	0.00
22													22													22	0.00	0.00
23													23													23	0.00	0.00
24													24													24	0.00	0.00
25													25													25	0.00	0.00
26													26		0.01	0.07										26	0.08	0.08
27													27													27	0.00	0.00
28													28													28	0.00	0.00
29		T		T									29													29	T	T
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)	0.16	0.21	0.31	0.40	0.49	0.58	0.65	0.84	0.91	1.00	1.15	1.24
Ending Date	18	18	18	18	18	18	18	18	18	18	18	18
Ending Time (Hr/Min)	1406	1511	1508	1511	1517	1523	1523	1521	1529	1523	1517	1543

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 2016

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, TN  
Lat/Lon:35.998/-84.2192 Elevation:1019ft  
Distance:1.5mi Dir:SW  
Augmented Elements:TEMP, PRECIP, SNOW  
Equipment:PRECIP-MODEL TRP525M, TEMP-VAISALA HMP 35C, SNOWBOARD, SNOWSTICK

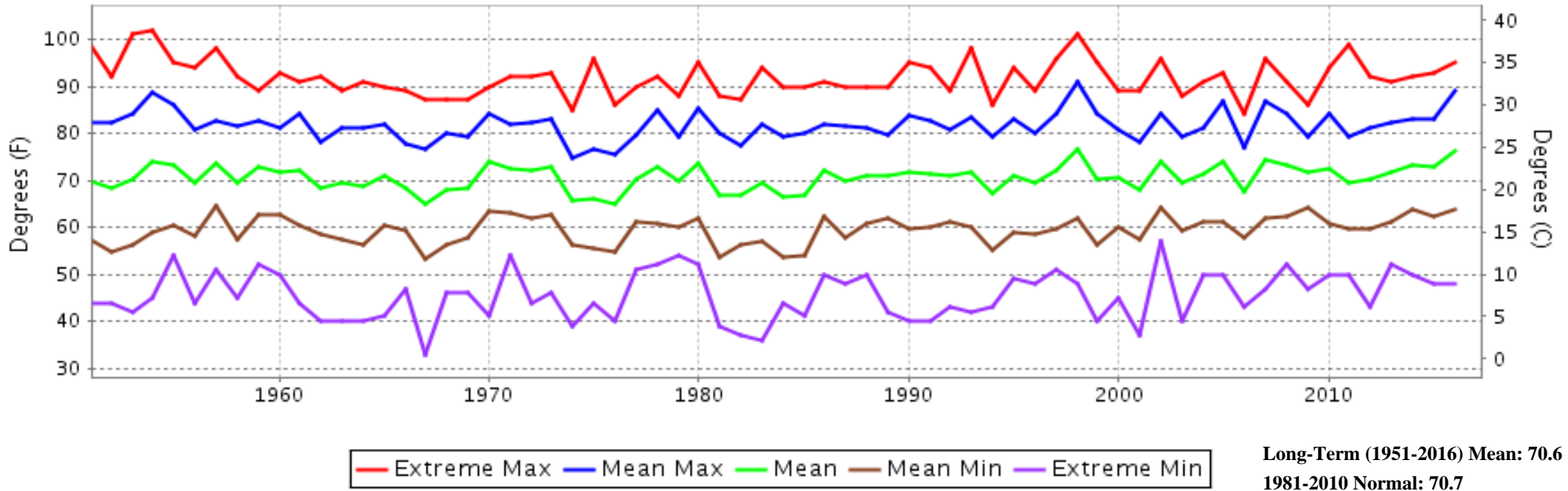
Date	VISIBILITY (MILES)	
	MINIMUM	MAXIMUM
01	1.50	10.00
02	10.00	10.00
03	10.00	10.00
04	10.00	10.00
05	10.00	10.00
06	10.00	10.00
07	10.00	10.00
08	10.00	10.00
09	10.00	10.00
10	10.00	10.00
11	10.00	10.00
12	10.00	10.00
13	10.00	10.00
14	10.00	10.00
15	10.00	10.00
16	10.00	10.00
17	6.00	10.00
18	0.75	10.00
19	0.75	10.00
20	7.00	10.00
21	10.00	10.00
22	10.00	10.00
23	10.00	10.00
24	0.25	10.00
25	10.00	10.00
26	10.00	10.00
27	10.00	10.00
28	10.00	10.00
29	10.00	10.00
30	10.00	10.00
<b>AVGS</b>	8.54	10.00
<b>MINIMUM VISIBILITY (MILES)</b>		
<= .25	<= 3.0	>= 7.0
1	4	25



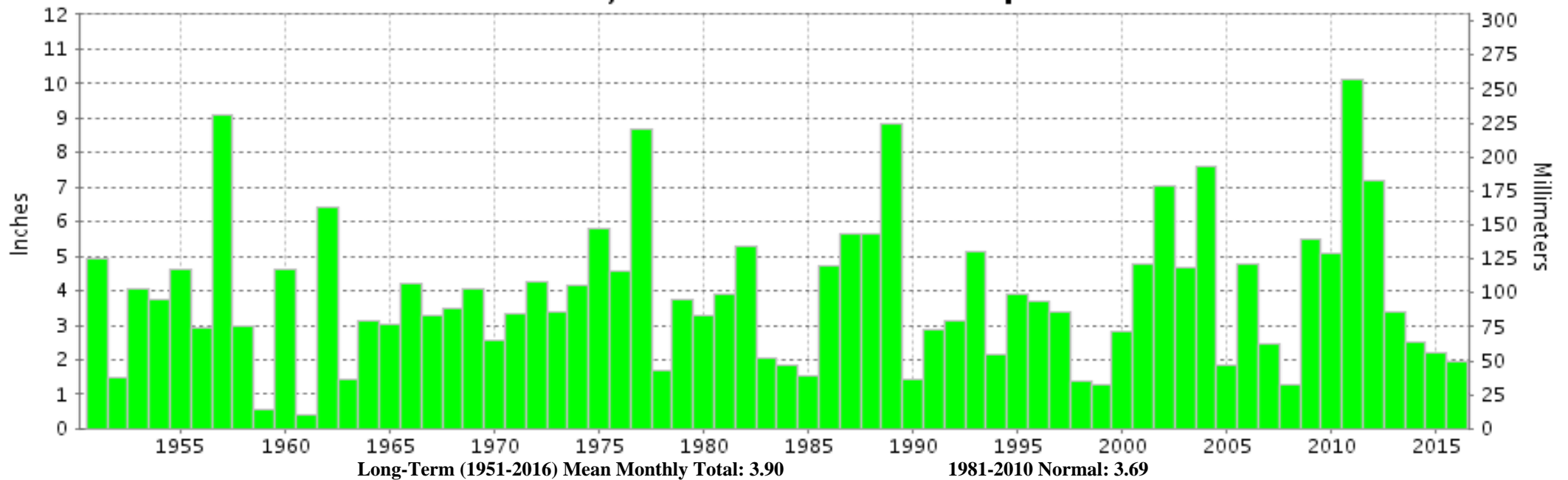




## OAK RIDGE, TN SEPTEMBER Temperatures



## OAK RIDGE, TN SEPTEMBER Precipitation





SEPTEMBER 2016

OAK RIDGE, TN

## LOCAL CLIMATOLOGICAL DATA

### NOAA, National Centers for Environmental Information

*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 Centers for Environmental Information (NCEI), Asheville, North Carolina 28801.*

A handwritten signature in black ink that reads "Margarita Fess".

**DIRECTOR (ACTING)**

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