

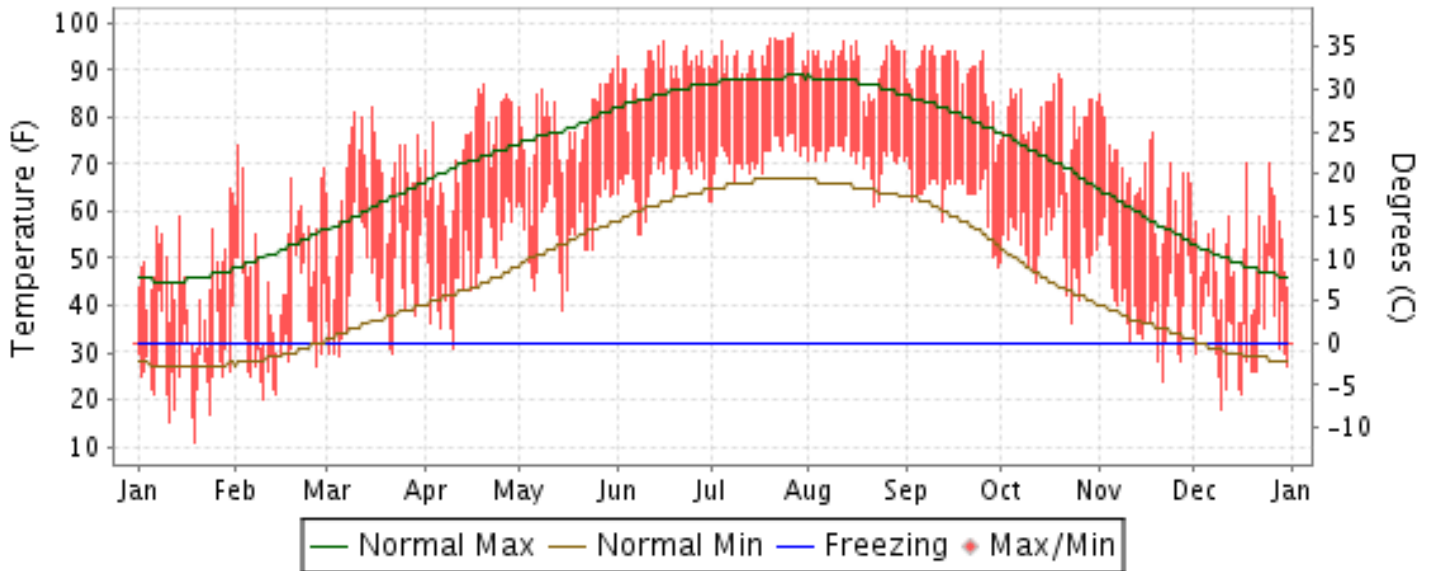


2016 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

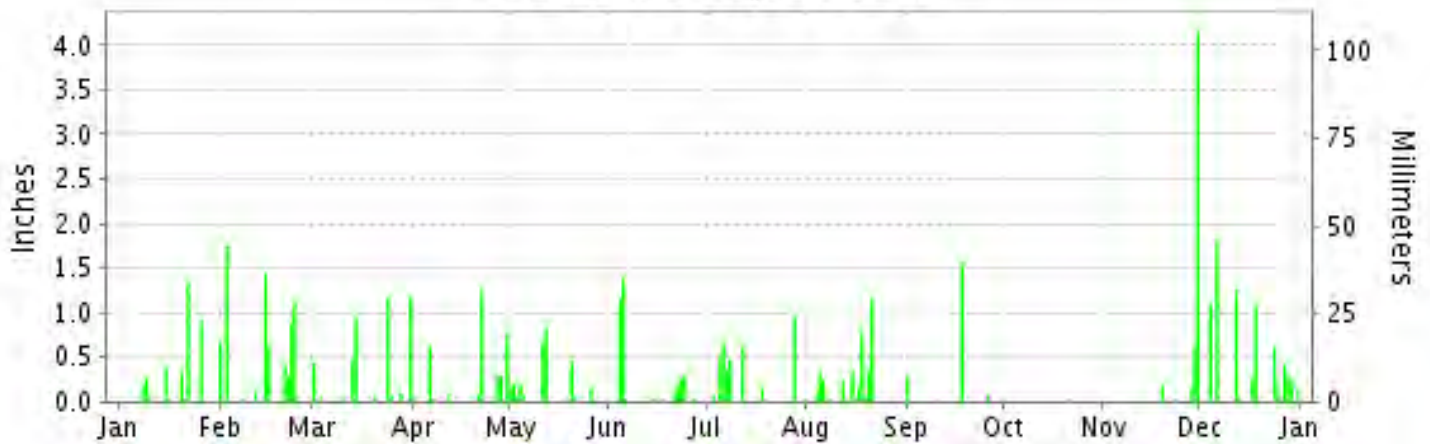
ISSN 0198-4861

OAK RIDGE, TENNESSEE (KOQT)

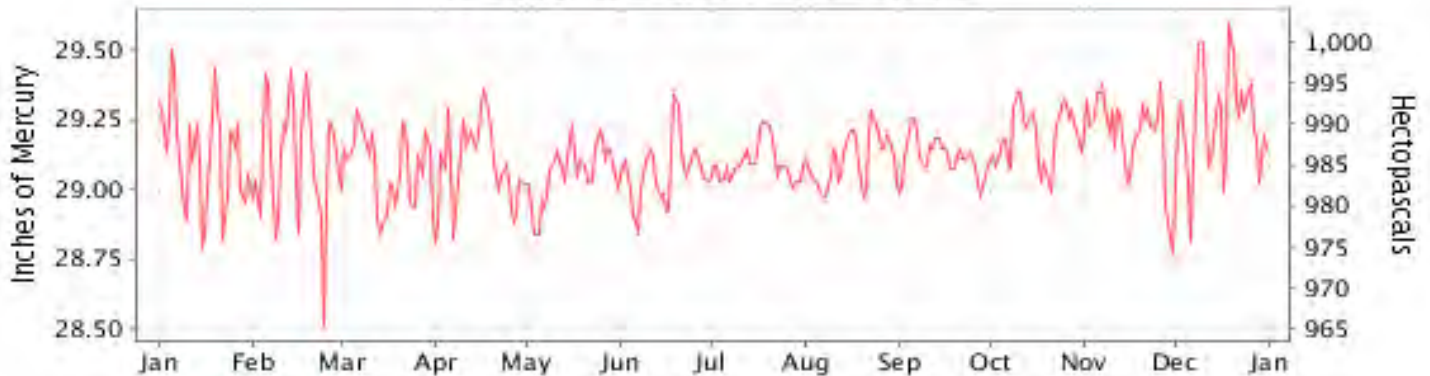
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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ENVIRONMENTAL SATELLITE, DATA
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NATIONAL CENTERS for
ENVIRONMENTAL INFORMATION (NCEI)
ASHEVILLE, NORTH CAROLINA

Margaret J. Seiss
DIRECTOR
NCEI

METEOROLOGICAL DATA FOR 2016

OAK RIDGE (KOQT)

LATITUDE: 36° 1'N LONGITUDE: 84° 14'W ELEVATION (FT): GRND: 910 BARO: 916 TIME ZONE: EASTERN (UTC -5) WBAN: 53868

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	45.7	51.0	67.1	73.7	78.5	90.1	92.6	91.5	88.9	80.1	66.6	51.2	73.1	
	HIGHEST DAILY MAXIMUM	65	74	82	87	90	96	98	96	95	89	85	70	98	
	DATE OF OCCURRENCE	30	02	15	20	31	16	27	27+	09+	19	01	25+	JUL 27	
	MEAN DAILY MINIMUM	26.7	34.3	43.5	49.0	56.4	66.7	71.7	71.4	63.7	52.3	40.1	33.4	50.8	
	LOWEST DAILY MINIMUM	11	20	29	31	39	55	62	61	48	36	24	18	11	
	DATE OF OCCURRENCE	19	10	05	10	15	09+	01	22	30	23	21	10	JAN 19	
	AVERAGE DRY BULB	36.2	42.6	55.3	61.4	67.5	78.4	82.2	81.5	76.3	66.2	53.4	42.3	61.9	
	MEAN WET BULB	31.9	37.8	48.4	52.0	59.5	68.4	72.6	72.7	66.0	56.5	45.5	38.0	54.1	
	MEAN DEW POINT	25.2	30.9	41.1	42.7	54.0	63.4	68.9	69.3	60.6	50.0	37.7	31.5	47.9	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	1	21	23	25	18	0	0	0	0	88
	MAXIMUM <= 32°	4	3	0	0	0	0	0	0	0	0	0	0	0	7
	MINIMUM <= 32°	26	17	5	1	0	0	0	0	0	0	6	15	70	
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	882	642	305	156	51	0	0	0	8	50	355	695	3144	
	COOLING DEGREE DAYS	0	0	14	53	133	408	540	518	354	94	14	0	2128	
RH	MEAN (PERCENT)	68	67	64	55	67	66	70	73	64	63	62	69	66	
	HOUR 01 LST	76	75	76	71	83	85	85	89	83	80	75	77	80	
	HOUR 07 LST	79	80	78	68	76	73	79	83	78	81	82	79	78	
	HOUR 13 LST	56	54	47	36	47	45	51	54	42	38	38	57	47	
	HOUR 19 LST	65	64	58	47	61	60	65	69	62	61	55	69	61	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	3	2	1	2	3	0	3	4	1	1	3	2	25	
	THUNDERSTORMS	0	0	0	0	0	0	0	0	0	0	0	0	0	
PR	MEAN STATION PRESS. (IN.)	29.13	29.10	29.08	29.08	29.06	29.06	29.10	29.10	29.11	29.18	29.20	29.23	29.12	
	MEAN SEA-LEVEL PRESS. (IN.)	30.14	30.10	30.05	30.05	30.01	29.99	30.02	30.03	30.05	30.14	30.18	30.24	30.08	
WINDS	RESULTANT SPEED (MPH)	0.5	1.1	1.5	0.8	0.5	0.5	0.8	0.3	0.1	0.2	0.4	0.7	0.6	
	RES. DIR. (TENS OF DEGS.)	26	24	22	24	26	22	23	21	14	22	24	26	24	
	MEAN SPEED (MPH)	2.8	3.7	3.3	3.4	2.6	2.4	2.4	1.9	1.7	1.9	1.7	2.8	2.6	
	PREVAIL.DIR.(TENS OF DEGS.)	06	25	21	27	20	26	20	26	06	25	06	26	21	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	17	24	22	24	16	17	26	17	17	14	24	26	26	
	DIR. (TENS OF DEGS.)	20	21	27	26	18	28	32	22	29	07	19	20	20	
	DATE OF OCCURRENCE	31	24	01	07	27	07	08	12	10	09	28	18	18	DEC 18
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	29	36	40	37	29	29	52	33	28	23	36	43	52	
DIR. (TENS OF DEGS.)	21	22	26	26	24	27	32	23	27	01	20	20	32		
DATE OF OCCURRENCE	31	24	01	07	12	04	08	12	10	08	28	18	18	JUL 08	
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	3.59	7.37	4.58	3.60	2.86	3.65	3.91	3.91	1.97	0.05	5.11	7.46	48.06	
	GREATEST 24-HOUR (IN.)	1.39	1.75	1.24	1.36	0.81	2.29	0.96	1.51	1.57	0.04	4.29	1.82	4.29	
	DATE OF OCCURRENCE	21-22	03	24-25	21-22	12	04-05	28	20-21	18	20-21	29-30	06	NOV 29-30	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	9	11	11	11	13	12	11	13	4	3	5	14	117	
PRECIPITATION 0.10	6	9	6	6	7	6	7	9	2	0	4	11	73		
PRECIPITATION 1.00	1	3	2	1	0	2	0	1	1	0	1	4	16		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)														
	GREATEST 24-HOUR (IN.)														
	DATE OF OCCURRENCE														
	MAXIMUM SNOW DEPTH (IN.)														
DATE OF OCCURRENCE															
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0															

NORMALS, MEANS, AND EXTREMES OAK RIDGE (KOQT)

LATITUDE: 36° 1'N **LONGITUDE:** 84° 14'W **ELEVATION (FT):** GRND: 910 BARO: 916 **TIME ZONE:** EASTERN (UTC -5) **WBAN: 53868**

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	46.6	51.9	61.4	70.6	78.3	85.7	88.4	88.0	81.7	71.1	59.6	49.6	69.4
	MEAN DAILY MAXIMUM	17	47.1	51.5	62.2	72.2	79.3	86.3	88.2	88.6	82.4	71.6	60.9	50.7	70.1
	HIGHEST DAILY MAXIMUM	69	76	79	86	92	95	105	105	103	102	90	85	78	105
	YEAR OF OCCURRENCE		1999	1977	2012	1986	2011	2012	1952	2007	1954	2007	2016	1982	JUN 2012
	MEAN OF EXTREME MAXS.	50	66.4	69.6	78.8	86.2	89.1	94.1	95.6	95.2	91.9	83.7	76.5	67.6	82.9
	NORMAL DAILY MINIMUM	30	28.9	31.7	39.3	46.9	55.2	64.5	68.6	67.2	59.7	48.0	38.3	31.1	48.3
	MEAN DAILY MINIMUM	17	28.8	31.8	39.9	48.4	56.9	65.0	68.8	68.0	60.9	48.9	38.8	32.8	49.1
	LOWEST DAILY MINIMUM	69	-17	-13	1	20	30	39	49	50	33	21	0	-7	-17
	YEAR OF OCCURRENCE		1985	1996	1980	1987	1976	1977	1988	1989	1967	1952	1950	1983	JAN 1985
	MEAN OF EXTREME MINS.	50	11.8	17.4	24.0	32.6	41.5	54.3	60.3	59.9	47.2	33.5	24.3	18.0	35.4
	NORMAL DRY BULB	30	37.7	41.8	50.4	58.8	66.8	75.1	78.5	77.6	70.7	59.5	48.9	40.3	58.8
	MEAN DRY BULB	47	36.7	40.0	49.4	58.5	66.4	74.2	77.5	76.8	70.4	59.0	48.3	40.3	58.1
	MEAN WET BULB	17	29.6	31.5	39.8	48.2	57.9	65.2	68.8	68.1	62.0	51.1	40.4	34.7	49.8
	MEAN DEW POINT	17	31.6	34.0	41.5	50.4	59.2	66.4	69.9	69.2	62.9	52.5	42.1	35.5	51.3
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.1	0.3	5.9	11.3	10.4	2.9	0.0	0.0	0.0	30.9
	MAXIMUM <= 32	30	2.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.1
	MINIMUM <= 32	30	20.8	15.0	6.5	1.3	0.0	0.0	0.0	0.0	0.0	1.5	8.2	17.7	71.0
MINIMUM <= 0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
H/C	NORMAL HEATING DEG. DAYS	30	845	650	458	215	59	2	0	0	21	199	483	764	3696
	NORMAL COOLING DEG. DAYS	30	0	0	4	27	113	305	418	391	192	30	2	0	1482
RH	NORMAL (PERCENT)	30													
	HOUR 01 LST	30													
	HOUR 07 LST	30													
	HOUR 13 LST	30													
	HOUR 19 LST	30													
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	17	2.1	1.4	1.4	2.2	5.0	4.1	5.3	5.1	6.9	7.1	4.7	3.7	49.0
	THUNDERSTORMS	17	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	40	5.4	5.2	5.2	4.7	4.7	4.4	4.6	4.7	4.5	3.9	4.8	5.2	4.8
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH: CLEAR	42	7.2	7.6	7.9	9.7	9.2	9.4	8.2	9.3	9.9	13.7	9.2	8.1	109.4
	PARTLY CLOUDY	42	6.6	5.7	7.3	6.9	9.0	10.4	11.5	11.4	8.9	7.0	7.2	6.3	98.2
	CLOUDY	42	17.2	15.0	15.8	13.4	12.8	10.2	11.3	10.2	11.2	10.2	13.6	16.6	157.5
PR	MEAN STATION PRESSURE(IN)	17	29.17	29.15	29.10	29.06	29.07	29.06	29.08	29.08	29.10	29.13	29.18	29.18	29.11
	MEAN SEA-LEVEL PRES. (IN)	17	30.18	30.13	30.08	30.02	30.02	30.00	30.01	30.01	30.04	30.09	30.17	30.18	30.08
WINDS	MEAN SPEED (MPH)	17	3.4	3.7	4.0	3.8	2.9	2.6	2.5	2.1	2.0	2.1	2.5	2.8	2.9
	PREVAIL.DIR(TENS OF DEGS)	18	23	05	05	22	22	21	21	06	06	06	05	05	05
	MAXIMUM 2-MINUTE: SPEED (MPH)	17	29	31	28	29	31	28	28	25	23	26	28	28	31
	DIR. (TENS OF DEGS)		27	28	06	29	09	29	08	19	25	19	19	22	09
	YEAR OF OCCURRENCE		2002	2009	2001	2006	2013	2008	2002	2005	2000	2010	2002	2006	MAY 2013
	MAXIMUM 3-SECOND SPEED (MPH)	17	41	53	40	39	46	51	52	43	38	41	40	44	53
	DIR. (TENS OF DEGS)		26	28	26	20	08	25	32	32	26	19	17	24	28
	YEAR OF OCCURRENCE		2002	2009	2016	2008	2013	2007	2016	2012	2000	2010	2002	2009	FEB 2009
PRECIPITATION	NORMAL (IN)	30	4.54	4.57	5.06	4.18	4.29	4.28	5.27	2.76	3.69	2.92	4.49	4.86	50.91
	MAXIMUM MONTHLY (IN)	69	13.27	12.78	12.24	14.03	10.70	11.14	19.27	10.46	10.14	6.95	12.22	12.64	19.27
	YEAR OF OCCURRENCE		1954	2003	1975	1998	1984	1989	1967	1960	2011	1972	1948	1990	JUL 1967
	MINIMUM MONTHLY (IN)	69	0.93	0.84	2.13	0.88	0.80	0.53	1.23	0.54	0.41	T	1.14	0.67	0.41
	YEAR OF OCCURRENCE		1981	1968	1957	1976	1970	1988	1995	1953	1961	1963	2012	1965	SEP 1961
	MAXIMUM IN 24 HOURS (IN)	69	4.25	5.18	4.74	6.24	4.41	3.70	4.91	7.48	6.54	2.66	5.29	5.12	7.48
	YEAR OF OCCURRENCE		1954	2003	1973	1977	1973	1969	1967	1960	2011	1976	1973	1969	AUG 1960
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	10.9	10.1	11.2	10.4	11.9	10.8	13.0	8.9	8.4	8.3	9.3	11.3	124.5
	PRECIPITATION >= 1.00	30	1.4	1.1	1.2	0.9	1.4	0.8	1.5	0.5	1.3	0.7	1.5	1.4	13.7
SNOWFALL	NORMAL (IN)	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
	MAXIMUM MONTHLY (IN)	52	9.6	17.2	21.0	5.9	T	T	T	T	0.0	T	6.5	14.8	21.0
	YEAR OF OCCURRENCE		1966	1979	1960	1987	1993	1998	1993	1990		1993	1950	1963	MAR 1960
	MAXIMUM IN 24 HOURS (IN)	52	8.3	11.3	12.0	5.4	T	T	T	T	0.0	T	6.5	10.8	12.0
	YEAR OF OCCURRENCE		1962	1996	1960	1987	1993	1998	1993	1990		1993	1950	1963	MAR 1960
	MAXIMUM SNOW DEPTH (IN)	34	8	6	3	3	0	0	0	0	0	0	1	10	10
	YEAR OF OCCURRENCE		1995	1969	1980	1987							1966	1963	DEC 1963
	NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

PRECIPITATION (inches) 2016 OAK RIDGE (KOQT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1987	4.87	5.64	2.82	2.97	2.02	4.26	3.94	1.92	5.64	0.69	2.11	3.43	40.31
1988	5.44	3.43	3.80	3.42	2.65	0.53	7.60	2.39	5.63	1.97	6.56	5.53	48.95
1989	6.94	5.07	6.03	2.76	6.14	11.14	3.62	3.90	8.86	2.46	6.06	3.03	66.01
1990	5.29	8.01	5.09	2.57	6.59	1.53	5.06	5.09	1.44	4.07	2.40	12.64	59.78
1991	2.97	7.94	7.44	3.84	2.55	7.05	4.06	4.62	2.86	1.76	4.15	10.92	60.16
1992	3.37	3.25	3.79	1.64	2.27	4.00	5.10	3.38	3.11	2.62	5.67	5.79	43.99
1993	3.98	4.13	6.42	3.70	4.29	1.60	1.99	3.25	5.12	2.15	4.09	8.29	49.01
1994	6.12	9.79	9.47	9.81	3.03	7.15	5.53	3.85	2.14	2.56	3.32	2.80	65.57
1995	6.30	3.76	3.85	2.49	6.12	3.02	1.23	2.25	3.90	4.64	7.48	3.67	48.71
1996	7.67	3.60	5.53	3.95	5.08	6.35	12.29	3.35	3.70	1.55	8.18	5.32	66.57
1997	5.76	4.56	6.12	3.99	6.31	5.85	6.37	4.02	3.38	3.39	2.83	3.88	56.46
1998	5.61	4.81	6.01	14.03	3.99	10.13	3.41	1.35	1.37	1.65	2.40	8.47	63.23
1999	8.60	3.87	4.91	3.68	4.42	6.21	8.03	1.74	1.27	2.09	2.71	1.57	49.10
2000	4.98	3.44	4.93	7.28	6.58	4.23	3.65	1.77	2.84	0.01	4.15	3.50	47.36
2001	3.95	7.62	2.46	2.16	3.67	3.38	7.55	3.04	4.79	0.88	1.85	4.97	46.32
2002	8.19	1.97	8.82	1.76	5.18	1.50	6.37	2.53	7.06	3.85	5.57	6.29	59.09
2003	2.17	12.78	2.85	8.03	10.01	6.05	5.29	3.86	4.68	1.58	5.89	3.72	66.91
2004	3.18	5.71	6.19	3.33	3.90	7.75	4.94	2.91	7.61	5.51	11.15	5.36	67.54
2005	4.94	4.05	2.96	6.28	3.19	4.01	7.60	1.40	1.86	1.81	4.11	2.90	45.11
2006	5.34	2.39	4.64	7.66	2.27	1.35	4.26	5.03	4.77	4.93	3.41	2.50	48.55
2007	2.93	1.31	3.29	5.31	2.72	1.59	4.19	0.71	2.47	2.78	5.07	3.50	35.87
2008	4.49	5.25	5.01	3.61	3.05	1.74	4.90	3.08	1.27	2.01	3.96	8.07	46.44
2009	5.82	3.51	4.38	3.81	5.81	5.47	5.43	4.57	5.48	5.73	2.62	8.14	60.77
2010	7.85	3.62	3.57	2.94	6.08	6.08	5.95	2.80	5.10	3.83	7.45	2.19	60.77
2011	3.99	5.70	6.65	9.13	2.14	7.30	4.80	0.91	10.14	4.59	10.89	5.02	71.26
2012	6.52	3.76	5.59	3.10	2.84	1.40	5.84	2.89	7.17	1.66	1.14	6.58	48.49
2013	10.51	2.32	5.72	6.37	5.33	7.92	8.04	4.61	3.38	0.72	4.43	8.04	67.39
2014	2.87	5.06	3.74	4.44	2.47	5.59	7.96	5.89	2.52	6.30	2.36	5.87	55.07
2015	3.63	4.15	4.72	6.77	1.03	3.57	7.87	5.97	2.23	3.19	5.33	8.56	57.02
2016	3.59	7.37	4.58	3.60	2.86	3.65	3.91	3.91	1.97	0.05	5.11	7.46	48.06
POR= 50 YRS	4.98	4.47	5.27	4.55	4.56	4.40	5.55	3.44	3.99	3.07	4.75	5.53	54.56

WBAN : 53868

AVERAGE TEMPERATURE (°F) 2016 OAK RIDGE (KOQT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1987	36.0	40.8	48.3	56.7	71.6	75.0	78.1	78.1	69.7	53.4	50.0	42.8	58.4
1988	32.9	38.5	49.5	58.3	66.5	74.1	77.6	78.7	70.9	51.8	48.2	38.9	57.2
1989	42.3	40.0	52.8	57.9	62.2	73.2	77.1	75.8	70.8	58.8	46.8	30.5	57.4
1990	42.8	37.7	52.8	56.2	64.6	75.0	77.6	77.6	71.8	59.1	50.4	43.1	59.1
1991	40.0	42.6	51.3	62.8	72.2	74.9	79.1	76.8	71.4	60.7	45.5	42.1	60.0
1992	39.3	44.8	47.5	58.5	63.7	71.5	77.4	73.3	70.9	57.4	47.0	38.9	57.5
1993	42.2	38.7	45.6	55.2	67.4	74.7	82.1	78.7	71.7	60.1	46.2	39.6	58.5
1994	31.6	42.5	47.6	59.7	61.7	74.9	76.4	75.0	67.2	59.9	52.2	44.4	57.8
1995	38.2	39.4	52.4	59.8	67.3	74.3	80.2	82.1	70.9	59.6	43.6	37.6	58.8
1996	36.2	38.4	44.9	55.1	70.2	75.3	76.3	76.9	69.3	60.2	44.8	42.2	57.5
1997	39.4	46.7	54.8	54.8	62.5	73.1	79.5	76.1	72.0	59.3	44.3	39.2	58.5
1998	43.2	45.8	49.4	57.6	71.4	76.4	80.4	79.2	76.6	62.8	50.8	44.9	61.5
1999	42.9	44.4	45.8	62.0	67.3	75.1	79.7	77.9	70.2	59.1	52.7	42.9	60.0
2000	37.4	46.0	53.6	56.4	70.2	75.3	78.2	77.4	70.5	61.4	46.9	33.5	58.9
2001	35.6	45.0	46.5	61.7	67.7	72.6	77.6	77.4	67.9	56.1	53.6	45.1	58.9
2002	41.0	40.8	49.8	61.8	64.9	76.3	80.1	79.4	74.1	62.3	46.3	40.1	59.7
2003	33.5	40.2	53.3	61.0	67.8	72.0	76.9	78.3	69.4	59.3	53.6	39.0	58.7
2004	37.5	40.6	53.9	58.7	71.4	75.1	77.3	74.2	71.2	64.2	53.5	39.5	59.8
2005	42.3	44.3	48.2	58.3	64.0	75.2	78.4	79.4	74.0	60.9	50.4	37.5	59.4
2006	45.0	40.4	50.4	63.4	65.5	74.5	79.0	80.0	67.5	56.6	48.8	43.7	59.6
2007	41.0	37.7	57.0	56.1	69.7	76.0	77.1	83.7	74.4	64.2	48.9	45.3	60.9
2008	37.2	43.1	49.1	59.4	65.9	76.6	77.5	76.8	73.2	58.7	45.4	41.5	58.7
2009	36.2	42.9	51.1	58.4	67.5	76.7	75.1	76.4	71.8	57.6	50.9	38.7	58.6
2010	34.1	34.8	47.7	62.0	70.4	79.2	81.0	80.8	72.5	59.7	50.2	33.1	58.8
2011	35.8	44.6	52.4	62.1	67.9	77.7	81.1	79.5	69.5	58.1	51.3	44.9	60.4
2012	42.5	46.0	60.6	61.6	71.8	76.0	81.5	76.4	70.4	57.8	47.0	46.2	61.5
2013	42.0	42.2	44.2	58.6	66.5	75.6	76.2	76.6	71.8	61.1	45.8	42.4	58.6
2014	30.9	41.6	48.3	61.3	69.1	76.3	75.6	77.4	73.4	60.7	44.1	43.8	58.5
2015	37.5	33.1	52.1	61.4	71.2	78.6	79.5	76.4	72.8	61.3	54.6	52.8	60.9
2016	36.2	42.6	55.3	61.4	67.5	78.4	82.2	81.5	76.3	66.2	53.4	42.3	61.9
POR= 47 YRS	36.7	40.0	49.4	58.5	66.4	74.2	77.5	76.8	70.4	59.0	48.3	40.3	58.1

HEATING DEGREE DAYS (base 65°F) 2016 OAK RIDGE (KOQT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1987-88	0	0	9	353	445	682	988	764	477	217	45	11	3991
1988-89	0	0	6	413	498	805	697	695	379	260	154	0	3907
1989-90	0	1	40	220	539	1066	682	481	384	282	83	0	3778
1990-91	0	0	26	200	436	675	770	624	426	96	14	0	3267
1991-92	0	0	48	167	580	705	794	583	538	236	121	7	3779
1992-93	0	0	14	230	536	803	701	729	595	292	37	3	3940
1993-94	0	0	26	182	559	781	1030	624	535	193	134	0	4064
1994-95	0	0	27	162	374	629	824	710	385	182	62	2	3357
1995-96	0	0	22	197	639	841	884	765	617	301	42	3	4311
1996-97	0	0	21	168	604	699	786	506	316	309	112	9	3530
1997-98	0	0	1	226	615	792	668	532	499	222	24	10	3589
1998-99	0	0	1	108	418	616	675	571	585	132	15	0	3121
1999-00	0	0	28	191	358	678	848	545	352	254	10	5	3269
2000-01	0	0	31	148	537	971	905	554	568	151	31	6	3902
2001-02	0	0	60	275	340	613	736	671	464	169	105	0	3433
2002-03	0	0	3	138	557	765	965	690	353	138	8	5	3622
2003-04	0	0	30	190	344	798	847	703	346	218	40	0	3516
2004-05	0	1	2	68	352	781	693	574	513	212	92	0	3288
2005-06	0	0	0	191	435	845	614	683	454	107	82	0	3411
2006-07	0	0	36	278	481	652	739	756	280	286	22	0	3530
2007-08	0	0	1	113	475	603	855	628	486	187	54	0	3402
2008-09	0	0	0	235	583	721	888	614	424	229	34	0	3728
2009-10	0	0	14	232	418	806	948	839	533	128	25	0	3943
2010-11	0	0	4	165	437	981	898	564	393	150	85	0	3677
2011-12	0	0	12	226	406	614	689	546	172	142	11	5	2823
2012-13	0	0	19	227	534	578	703	634	637	220	66	0	3618
2013-14	0	0	2	170	570	692	1052	651	510	140	57	0	3844
2014-15	0	0	2	163	618	649	845	887	397	129	26	0	3716
2015-16	0	0	7	147	317	379	882	642	305	156	51	0	2886
2016-	0	0	8	50	355	695							

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COOLING DEGREE DAYS (base 65°F) 2016 OAK RIDGE (KOQT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1987	0	0	0	36	222	306	412	409	152	0	0	0	1537
1988	0	0	1	23	94	291	400	429	187	9	0	0	1434
1989	0	1	3	51	72	249	379	341	219	31	0	0	1346
1990	0	0	11	25	78	305	393	397	235	26	3	0	1473
1991	0	0	5	36	242	300	441	370	245	39	0	0	1678
1992	0	0	0	43	86	204	387	261	198	1	0	0	1180
1993	0	0	0	3	115	298	532	429	234	36	0	0	1647
1994	0	0	0	39	39	304	359	318	101	9	0	0	1169
1995	0	0	4	35	140	286	478	541	206	34	2	0	1726
1996	0	0	0	12	208	320	359	378	159	26	3	0	1465
1997	0	0	5	9	41	262	458	350	219	56	0	0	1400
1998	0	0	21	9	229	360	485	448	355	48	0	1	1956
1999	0	0	0	49	94	310	464	405	190	15	0	0	1527
2000	0	0	3	2	177	320	415	390	200	42	2	0	1551
2001	0	0	0	60	123	243	397	389	152	8	1	0	1373
2002	0	0	1	78	108	345	463	454	282	63	4	0	1798
2003	0	0	0	24	104	221	376	420	168	21	9	0	1343
2004	1	0	9	33	243	309	387	293	196	50	11	0	1532
2005	0	0	1	14	69	313	423	455	276	71	5	0	1627
2006	0	0	5	62	107	290	443	469	117	26	0	0	1519
2007	0	0	40	28	175	336	382	586	292	94	0	0	1933
2008	0	0	0	30	88	353	395	372	254	43	0	0	1535
2009	0	0	0	41	117	356	318	361	223	8	0	0	1424
2010	0	0	0	43	195	435	501	496	237	9	0	0	1916
2011	0	0	8	69	180	386	505	461	155	16	2	0	1782
2012	0	0	44	46	229	341	520	360	188	10	0	0	1738
2013	1	0	0	33	121	326	355	368	211	57	0	0	1472
2014	0	0	0	37	193	349	334	391	262	37	0	0	1603
2015	0	0	4	29	227	415	459	362	248	40	15	8	1807
2016	0	0	14	53	133	408	540	518	354	94	14	0	2128

SNOWFALL (inches) 2016 OAK RIDGE (KOQT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1976-77	0.0	0.0	0.0	0.0	T	1.3	8.7	T	T	0.0	0.0	0.0	10.0
1977-78	0.0	0.0	0.0	0.0	T	1.0	8.6	6.2	3.4	T	0.0	0.0	19.2
1978-79	0.0	0.0	0.0	0.0	0.0	T	4.2	17.2	0.5	0.0	0.0	0.0	21.9
1979-80	0.0	0.0	0.0	0.0	T	T	1.0	7.9	3.2	T	0.0	0.0	12.1
1980-81	0.0	0.0	0.0	0.0	T	T	5.3	0.2	0.1	0.0	0.0	0.0	5.6
1981-82	0.0	0.0	0.0	0.0	T	0.9	4.4	0.5	1.8	T	0.0	0.0	7.6
1982-83	0.0	0.0	0.0	0.0	0.0	2.8	1.4	4.8	T	0.2	0.0	0.0	9.2
1983-84	0.0	0.0	0.0	0.0	T	0.3	4.6	5.1	0.2	0.0	0.0	0.0	10.2
1984-85	0.0	0.0	0.0	0.0	0.0	0.1	9.4	3.6	0.0	0.0	0.0	0.0	13.1
1985-86	0.0	0.0	0.0	0.0	0.0	T	2.5	5.0	T	0.0	0.0	0.0	7.5
1986-87	0.0	0.0	0.0	0.0	0.0	T	4.7	T	T	5.9	0.0	0.0	10.6
1987-88	0.0	0.0	0.0	0.0	T	T	6.9	0.1	T	0.0	0.0	0.0	7.0
1988-89	0.0	0.0	0.0	0.0	T	4.2	T	4.1	0.0	T	0.0	0.0	8.3
1989-90	0.0	0.0	0.0	T	T	9.5	T	T	T	0.0	T	0.0	9.5
1990-91	0.0	T	0.0	0.0	0.0	T	T	T	T	0.0	0.0	0.0	T
1991-92	T	0.0	0.0	0.0	T	T	T	0.0	1.0	T	0.0	0.0	1.0
1992-93	0.0	0.0	0.0	0.0	0.0	0.6	0.0	2.8	12.0	T	T	0.0	15.4
1993-94	T	0.0	0.0	T	0.0	0.5	0.9	0.1	T	0.0		0.0	
1994-95	0.0	0.0	0.0	0.0	0.0	0.0	1.8	2.4	2.2	0.0	0.0	0.0	6.4
1995-96	0.0	0.0	0.0	0.0	T	T	9.0	12.0	0.8	T	0.0	0.0	21.8
1996-97	0.0	0.0	0.0	0.0	0.5	T	3.2	T	0.0	0.0	0.0	0.0	3.7
1997-98	0.0	0.0	0.0	0.0	0.0	5.5	T	2.8	T	T	0.0	T	8.3
1998-99	0.0	0.0	0.0	0.0	0.0	0.4	1.1	1.5					
1999-00													
2000-01													
2001-02													
2002-03													
2003-04													
2004-05													
2005-													
POR= 11 YRS	T	T	0.0	T	0.1	1.1	2.8	2.8	1.1	0.3	T	T	8.2

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REFERENCE NOTES :

<p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.</p> <p>GENERAL CONTINUED: WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN</p>	<p>PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65 F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY. ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED STATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS: http://www.ncdc.noaa.gov/homr/ SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p>NOTE: The "Period of Record:(POR)" for all "averages" is based on "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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2016 OAK RIDGE TENNESSEE (KOQT)

Oak Ridge is located in a broad valley between the Cumberland Mountains, which lie to the northwest of the area, and the Great Smoky Mountains, to the southeast. These mountain ranges are oriented northeast-southwest and the valley between is corrugated by broken ridges 300 to 500 feet high and oriented parallel to the main valley. During periods of light winds, daytime winds are usually southwesterly, nighttime winds northeasterly. Wind velocities are somewhat decreased by the ridges. Tornadoes rarely occur in the valley between the Cumberlands and the Great Smokies. In winter the Cumberland Mountains have a moderating influence on the local climate by retarding the flow of cold air from the north and west.

Temperatures of 100 degrees or more have occurred during less than one-half of the years of the period of record, and temperatures of zero or below are rare. Summer nights are seldom oppressively hot and humid.

Precipitation is more than adequate for agriculture and is normally well distributed through the year for agricultural purposes.

Occasionally there is sufficient dry weather in late summer or early fall to cause small damage to crops and pastures and to create conditions favorable for destructive forest fires. Winter and early spring are the seasons of heaviest precipitation. A few of the larger monthly precipitation amounts recorded have occurred in the normally drier fall months.

Light snow usually occurs in all of the months from November through March, but the total monthly snowfall is often only a trace. Snowfalls sufficiently heavy to interfere with traffic and outdoor activities occur infrequently.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 27 and the average last occurrence in the spring is April 11.

Station History

OAK RIDGE, TN

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
OAK RIDGE ASOS	1998-09-01	2000-10-16	36° 1'	-84° 13'	910		ASOS, COOP
OAK RIDGE ASOS	2000-10-16	2006-09-22	36° 1'	-84° 14'	910		ASOS, COOP
OAK RIDGE ASOS	2006-09-22	2011-08-05	36° 1'	-84° 14'	910		AIRSAMPLE, ASOS, COOP
OAK RIDGE ASOS	2011-08-05	Present	36° 1'	-84° 14'	910		AIRSAMPLE, ASOS, COOP

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	2006-09-22	2007-03-22	DAILY	2400	PCPNX		
WIND	2001-12-19	2006-09-22	HOURLY	UNKN	ANEMCUP		
TEMP	2006-09-22	2007-03-22	DAILY	2400	ATEMP		
TEMP	2007-03-22	2011-08-05	DAILY	2400	ATEMP		
PRECIP	2011-08-05	Present	DAILY	2400	PCPNX		
PRECIP	1999-04-01	2001-12-19	HOURLY	2400	TB	RCRD	
PRECIP	1999-04-01	2001-12-19	DAILY	2400	TB	RCRD	
TEMP	2001-12-19	2006-09-22	DAILY	2400	ATEMP		
PRECIP	2007-03-22	2011-08-05	DAILY	2400	PCPNX		
WIND	2011-08-05	Present	HOURLY	UNKN	ANEMSONIC		
WIND	1999-04-01	2001-12-19	HOURLY	UNKN	ANEMCUP		
PRECIP	2001-12-19	2006-09-22	DAILY	2400	TB	RCRD	
PRECIP	2007-03-22	2011-08-05	HOURLY	2400	TB	RCRD	
TEMP	1998-09-01	1999-04-01	DAILY	2400	HYGR		
PRECIP	2001-12-19	2006-09-22	HOURLY	2400	TB	RCRD	
WIND	2006-09-22	2007-03-22	HOURLY	UNKN	ANEMCUP		
TEMP	2011-08-05	Present	DAILY	2400	ATEMP		
PRECIP	2011-08-05	Present	HOURLY	2400	AHTB	RCRD;HTD	
WIND	1998-09-01	1999-04-01	HOURLY	UNKN	ANEMCUP		
PRECIP	1998-09-01	1999-04-01	DAILY	2400	TB	RCRD	
PRECIP	2006-09-22	2007-03-22	HOURLY	2400	TB	RCRD	
TEMP	1999-04-01	2001-12-19	DAILY	2400	HYGR		
WIND	2007-03-22	2011-08-05	HOURLY	UNKN	ANEMSONIC		

* For explanation of codes and abbreviations see Station Metadata link below.

Other Station Information can be found at:

ASOS Implementation by NWS: <http://www.nws.noaa.gov/ops2/Surface/asosimplementation.htm>

Station Metadata website: <http://www.ncdc.noaa.gov/homr>

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2

Fax Number : (828) 271-4876

TDD : (828) 271-4010

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