

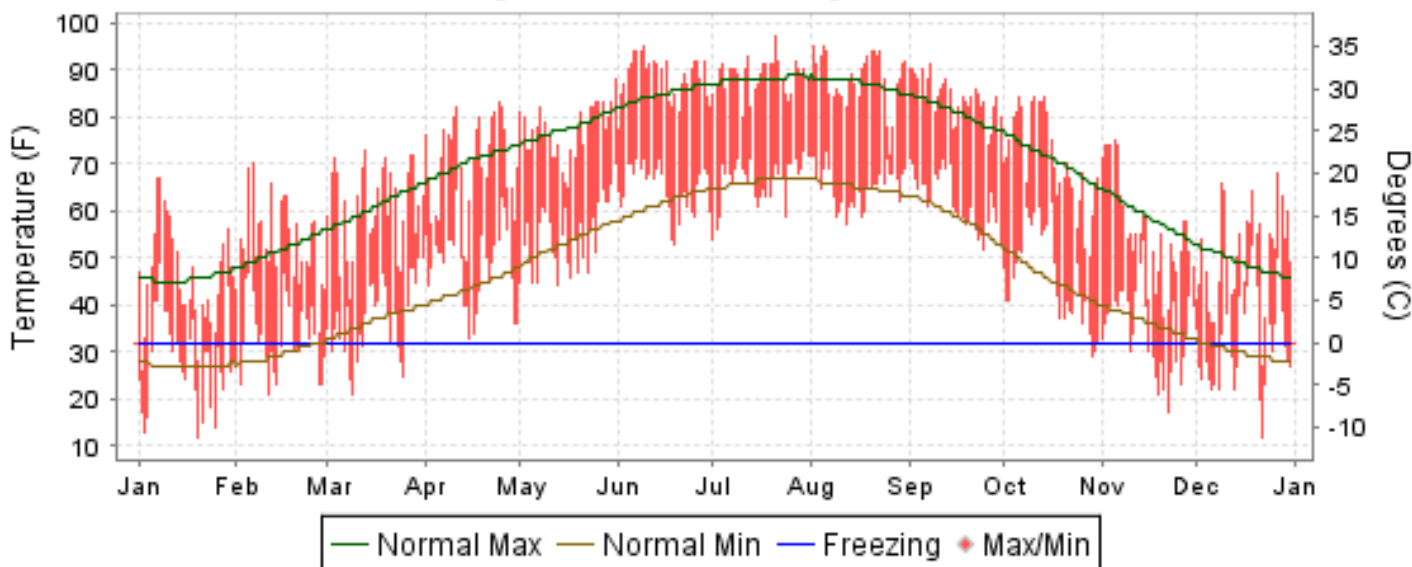


2008 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

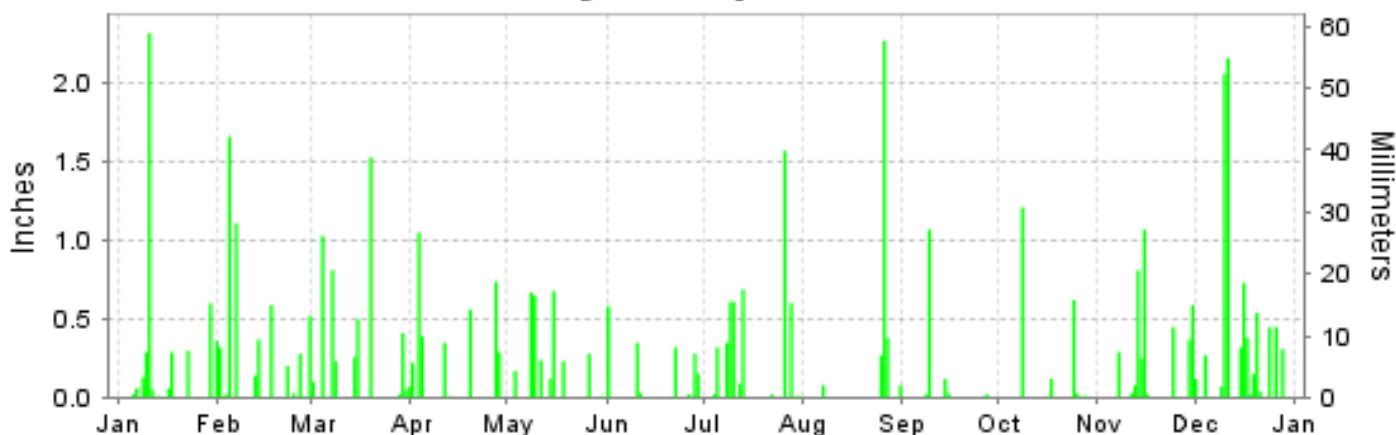
ISSN 0198-4861

OAK RIDGE, TENNESSEE (KOQT)

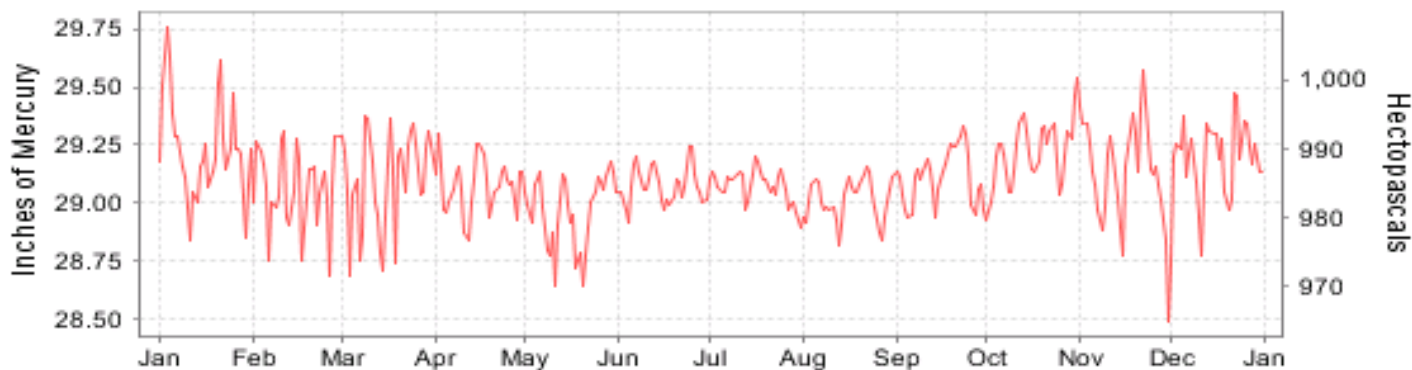
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2008

OAK RIDGE (KOQT)

LATITUDE: 36° 1' N LONGITUDE: -84° 14' W ELEVATION (FT): GRND: 913 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	46.3	53.1	60.9	70.2	77.0	88.4	88.6	88.2	84.1	71.1	56.0	50.5	69.5	
	HIGHEST DAILY MAXIMUM	67	70	73	83	88	95	97	95	91	84	75	68	97	
	DATE OF OCCURRENCE	08+	06	13	24	31	09	21	05+	08	14+	05	27	JUL 21	
	MEAN DAILY MINIMUM	28.1	33.1	37.2	48.6	54.7	64.8	66.4	65.3	62.3	46.2	34.7	32.5	47.8	
	LOWEST DAILY MINIMUM	12	21	21	33	44	53	54	57	52	29	17	12	12	
	DATE OF OCCURRENCE	20	11	09	15	13	19	01	12	25	29	22	22	DEC 22	
	AVERAGE DRY BULB	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	
	MEAN WET BULB	32.6	37.8	42.9	51.6	58.4	67.0	68.3	66.8	64.3	51.2	40.3	38.5	51.6	
	MEAN DEW POINT	24.2	30.4	35.0	44.5	52.3	61.7	63.9	61.2	59.6	45.1	34.1	33.5	45.5	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	16	16	14	4	0	0	0	0	50
	MAXIMUM <= 32°	2	0	0	0	0	0	0	0	0	0	0	1	3	
	MINIMUM <= 32°	22	16	10	0	0	0	0	0	0	3	12	17	80	
	MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	855	628	486	187	54	0	0	0	0	235	583	721	3749	
	COOLING DEGREE DAYS	0	0	0	30	88	353	395	372	254	43	0	0	1535	
RH	MEAN (PERCENT)	63	65	62	62	64	64	69	63	69	68	70	75	66	
	HOUR 01 LST	70	72	74	73	79	83	85	78	84	86	81	82	79	
	HOUR 07 LST	71	76	75	74	73	75	79	76	82	85	85	85	78	
	HOUR 13 LST	50	54	48	45	49	43	49	43	47	44	51	63	49	
	HOUR 19 LST	63	62	55	56	60	58	62	55	66	67	71	74	62	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY <= 1/4 MI)	1	0	3	0	4	3	2	2	5	3	4	5	32	
	THUNDERSTORMS	0	0	0	0	0	0	0	0	0	0	0	0	0	
CLOUDNESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
SATELLITE (> 12,000 FT.)															
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)	29.23	29.08	29.11	29.08	28.97	29.07	29.08	29.01	29.11	29.22	29.14	29.19	29.11	
	MEAN SEA-LEVEL PRESS. (IN.)	30.25	30.07	30.10	30.05	29.92	30.00	30.00	29.94	30.06	30.19	30.14	30.20	30.08	
WINDS	RESULTANT SPEED (MPH)	1.3	2.0	1.4	0.9	1.4	1.3	0.6	0.3	0.2	0.2	0.8	0.9	0.8	
	RES. DIR. (TENS OF DEGS.)	25	25	23	22	23	22	23	02	10	05	27	25	24	
	MEAN SPEED (MPH)	3.2	3.6	4.0	3.4	3.3	2.8	2.2	1.8	1.9	1.9	2.2	2.9	2.8	
	PREVAIL. DIR. (TENS OF DEGS.)	22	26	23	25	22	20	21	06	07	06	23	22	22	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	25	26	26	26	25	28	22	14	22	15	18	22	28	
	DIR. (TENS OF DEGS.)	27	21	16	20	26	29	33	06	20	28	26	19	29	
	DATE OF OCCURRENCE	30	12	04	11	11	28	21	23	08	27	15	09	JUN 28	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	40	38	36	39	40	40	33	22	37	28	28	36	40	
DIR. (TENS OF DEGS.)	26	22	18	20	26	28	31	31	22	28	26	18	28		
DATE OF OCCURRENCE	29	06	18	11	11	28	21	07	08	27	15	09	JUN 28		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	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	
	GREATEST 24-HOUR (IN.)	2.37	1.68	1.53	1.05	0.68	0.58	1.57	2.32	1.08	1.21	1.32	2.25	2.37	
	DATE OF OCCURRENCE	10-11	03-04	19	03	15	01	26	25-26	08-09	08	14-15	10-11	JAN 10-11	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	12	12	11	8	9	8	12	5	6	7	10	15	115	
PRECIPITATION 0.10	7	9	8	7	8	5	7	3	2	3	7	12	78		
PRECIPITATION 1.00	1	2	2	1	0	0	1	1	1	1	1	2	13		
SNOWFALL	SNOW, ICE PELLETS, HAIL														
	TOTAL (IN.)														
	GREATEST 24-HOUR (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: 913 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	45.9	51.6	61.0	70.5	77.8	84.9	88.1	87.2	81.1	71.1	59.0	49.0	68.9
	MEAN DAILY MAXIMUM	9	48.1	52.2	62.2	71.3	78.7	85.0	87.8	88.9	82.2	71.7	60.9	50.2	69.9
	HIGHEST DAILY MAXIMUM	61	76	79	86	92	93	101	105	103	102	90	83	78	105
	YEAR OF OCCURRENCE		1999	1977	2007	1986	1998	1988	1952	2007	1954	2007	1961	1982	JUL 1952
	MEAN OF EXTREME MAXS.	42	68.3	70.1	77.8	85.8	88.3	92.5	95.2	95.6	91.2	83.7	77.7	67.2	82.8
	NORMAL DAILY MINIMUM	30	27.2	29.5	36.6	43.8	53.4	61.7	66.4	65.2	58.8	45.7	36.4	29.8	46.2
	MEAN DAILY MINIMUM	9	29.7	32.2	39.3	48.4	56.1	63.7	68.5	68.0	60.2	48.8	39.0	31.4	48.8
	LOWEST DAILY MINIMUM	61	-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.	42	12.8	18.4	24.4	32.7	41.9	52.3	60.3	60.3	46.1	32.7	24.2	16.0	35.2
	NORMAL DRY BULB	30	35.0	38.8	47.9	56.8	64.9	72.4	75.8	75.2	69.1	57.4	47.3	38.6	56.6
	MEAN DRY BULB	39	36.6	39.8	49.0	58.1	65.9	73.6	77.2	76.6	70.0	58.7	48.0	39.8	57.8
	MEAN WET BULB	9	32.5	34.1	41.5	50.5	58.6	65.8	69.5	69.0	62.4	52.7	42.8	35.1	51.2
	MEAN DEW POINT	9	30.5	32.8	38.7	48.3	57.3	65.0	68.9	68.2	61.1	51.4	40.9	32.6	49.6
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.1	0.8	6.4	13.7	10.4	3.7	0.0	0.0	0.0	35.1
	MAXIMUM <= 32	30	3.4	1.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	1.9	7.1
	MINIMUM <= 32	30	21.9	17.7	11.7	3.3	0.1	0.0	0.0	0.0	0.0	2.3	12.1	20.0	89.1
MINIMUM <= 0	30	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	
H/C	NORMAL HEATING DEG. DAYS	30	882	696	510	254	80	6	0	0	30	230	518	787	3993
	NORMAL COOLING DEG. DAYS	30	0	0	2	19	95	254	380	347	180	23	1	0	1301
RH	NORMAL (PERCENT)	30													
	HOOR 01 LST	30													
	HOOR 07 LST	30													
	HOOR 13 LST	30													
	HOOR 19 LST	30													
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	9	2.7	1.3	1.8	1.8	5.6	4.8	6.1	5.0	7.5	7.7	4.4	4.1	52.8
	THUNDERSTORMS	9	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
CLOUDNESS	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)	9	29.19	29.16	29.10	29.07	29.06	29.08	29.08	29.08	29.10	29.15	29.17	29.18	29.12
	MEAN SEA-LEVEL PRES. (IN)	9	30.20	30.17	30.08	30.03	30.01	30.02	30.01	30.01	30.05	30.11	30.16	30.19	30.09
WINDS	MEAN SPEED (MPH)	9	3.8	3.8	4.3	4.1	3.3	2.9	2.8	2.5	2.4	2.3	2.8	3.1	3.2
	PREVAIL.DIR(TENS OF DEGS)	10	23	05	05	23	22	22	22	06	06	06	05	23	23
	MAXIMUM 2-MINUTE: SPEED (MPH)	9	29	26	28	29	30	28	28	25	23	24	28	28	30
	DIR. (TENS OF DEGS)		27	21	06	29	21	29	08	19	25	21	19	22	21
	YEAR OF OCCURRENCE		2002	2008	2001	2006	2007	2008	2002	2005	2000	2001	2002	2006	MAY 2007
	MAXIMUM 3-SECOND SPEED (MPH)	9	41	38	39	39	41	51	40	39	38	39	40	39	51
	DIR. (TENS OF DEGS)		26	22	01	20	19	25	07	17	26	22	17	20	25
	YEAR OF OCCURRENCE		2002	2008	2001	2008	2007	2007	2004	2005	2000	2006	2002	2006	JUN 2007
PRECIPITATION	NORMAL (IN)	30	5.13	4.50	5.72	4.32	5.14	4.64	5.16	3.39	3.75	3.02	4.86	5.42	55.05
	MAXIMUM MONTHLY (IN)	61	13.27	12.78	12.24	14.03	10.70	11.14	19.27	10.46	9.10	6.95	12.22	12.64	19.27
	YEAR OF OCCURRENCE		1954	2003	1975	1998	1984	1989	1967	1960	1957	1972	1948	1990	JUL 1967
	MINIMUM MONTHLY (IN)	61	0.93	0.84	2.13	0.88	0.80	0.53	1.23	0.54	0.41	T	1.37	0.67	T
	YEAR OF OCCURRENCE		1981	1968	1957	1976	1970	1988	1995	1953	1961	1963	1949	1965	OCT 1963
	MAXIMUM IN 24 HOURS (IN)	61	4.25	5.18	4.74	6.24	4.41	3.70	4.91	7.48	5.11	2.66	5.29	5.12	7.48
	YEAR OF OCCURRENCE		1954	2003	1973	1977	1973	1969	1967	1960	2004	1976	1973	1969	AUG 1960
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	12.2	10.9	12.6	10.2	11.7	11.5	11.9	9.6	8.7	7.9	9.8	11.3	128.3
	PRECIPITATION >= 1.00	30	1.4	1.1	1.5	0.9	1.4	1.4	1.3	0.8	1.3	1.0	1.4	1.5	15.0
	SNOWFALL	NORMAL (IN)	30	4.0	3.8	0.8	0.2	0.0	0.0	0.0	0.0	0.0	T	0.1	2.2
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	1.4	1.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	3.6	

PRECIPITATION (inches) 2008 OAK RIDGE (KOQT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1979	7.60	4.30	5.01	5.25	9.32	3.73	12.92	5.49	3.74	1.93	5.77	2.24	67.30
1980	6.24	1.51	9.20	3.89	3.01	0.85	2.39	2.07	3.31	1.08	4.55	2.02	40.12
1981	0.93	4.69	3.59	4.58	2.65	4.50	2.42	3.11	3.90	4.89	3.20	4.12	42.58
1982	6.70	5.42	6.20	2.79	2.88	2.15	7.01	4.61	5.31	1.95	7.81	7.22	60.05
1983	1.75	4.38	2.57	6.40	6.90	2.53	2.41	1.28	2.07	4.58	5.85	6.95	47.67
1984	2.62	3.92	4.81	4.16	10.70	4.70	8.72	1.87	1.87	6.19	4.37	2.59	56.52
1985	2.88	3.73	2.60	2.23	3.83	5.08	6.43	8.50	1.56	3.08	4.49	2.11	46.52
1986	1.16	5.15	2.70	1.73	2.74	1.45	2.84	2.84	4.70	4.51	3.67	5.34	38.83
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
POR= 42 YRS	4.87	4.47	5.34	4.46	4.74	4.41	5.43	3.35	3.85	3.04	4.71	5.34	54.01

WBAN : 53868

AVERAGE TEMPERATURE (°F) 2008 OAK RIDGE (KOQT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1979	31.1	35.3	50.0	57.2	64.4	71.5	73.9	74.9	69.7	56.5	47.9	39.5	56.0
1980	38.8	34.3	44.5	55.4	65.7	72.8	80.6	78.9	73.7	55.4	46.6	38.3	57.1
1981	32.3	39.9	44.1	61.2	62.3	75.4	77.8	74.1	66.8	55.0	46.0	34.3	55.8
1982	31.6	41.2	50.7	52.6	69.3	71.6	77.5	73.8	66.8	57.6	47.4	43.0	56.9
1983	35.4	38.6	47.7	51.2	63.8	71.5	77.9	79.2	69.4	59.4	45.7	34.4	56.2
1984	33.2	41.3	44.9	54.7	60.7	74.0	73.5	75.1	66.5	65.5	43.1	45.8	56.5
1985	28.0	35.3	47.8	57.3	64.2	71.0	74.8	73.1	67.0	61.9	54.5	30.9	55.5
1986	35.2	43.2	48.4	58.3	66.7	75.7	80.3	75.6	72.1	59.9	51.1	37.7	58.7
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
POR= 39 YRS	36.6	39.8	49.0	58.1	65.9	73.6	77.2	76.6	70.0	58.7	48.0	39.8	57.8

HEATING DEGREE DAYS (base 65°F) 2008 OAK RIDGE (KOQT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1979-80	0	0	7	267	507	783	804	883	629	288	63	3	4234
1980-81	0	0	23	304	545	821	1009	695	643	145	120	0	4305
1981-82	0	0	68	307	562	944	1030	662	450	367	29	0	4419
1982-83	0	0	62	263	522	678	910	734	529	413	78	11	4200
1983-84	0	0	57	181	572	942	977	682	616	304	173	5	4509
1984-85	0	0	58	47	648	588	1140	824	525	239	84	20	4173
1985-86	0	0	61	123	311	1049	917	603	508	214	62	0	3848
1986-87	0	3	0	199	417	841	892	673	515	282	11	0	3833
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-	0	0	0	235	583	721							

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COOLING DEGREE DAYS (base 65°F) 2008 OAK RIDGE (KOQT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1979	0	0	2	5	74	202	285	314	151	11	0	0	1044
1980	0	0	0	6	92	244	491	435	291	13	0	0	1572
1981	0	0	0	39	40	319	404	286	126	3	0	0	1217
1982	0	0	15	2	167	207	392	279	120	44	0	3	1229
1983	0	0	0	5	47	211	405	445	196	12	0	0	1321
1984	0	0	0	3	47	283	275	318	106	69	0	0	1101
1985	0	0	2	16	63	207	313	258	125	31	3	0	1018
1986	0	0	0	22	121	329	477	337	219	47	5	0	1557
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

SNOWFALL (inches) 2008 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. NORMALS ARE 30-YEAR AVERAGES (1971 - 2000). 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 AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.</p>	<p>GENERAL CONTINUED: CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED. 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 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.</p> <p>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 EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p> <p>NOTE: The "Period of Record:(POR) for all "averages" is based on the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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2008 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 Location

OAK RIDGE

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	Latitude		Longitude		ELEVATION ABOVE								REMARKS	
				NORTH	WEST	SEA LEVEL	GROUND							AUTOMATIC OBSERVING EQUIPMENT *			
							GROUND TEMPERATURE SITE	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET RAIN GAUGE	WEIGHING RAIN GAUGE		8 INCH RAIN GAUGE		HYGROTHERMOMETER
#NOTE:																	
Administration Building Atomic Energy Comm., Oak Ridge Turnpike and Central Avenue	12/07/48	1973	2200 ft. E	36° 01'	84° 14'	905	46 c41	5					4	b4			Wind, temperature and precipitation instruments remain at second location of station. b. Added February 1957. c. Effective December 1958.
465 s. Illinois	1973	09/01/98	6.7 NE	36° 00'	84° 15'	880	d30	5					3	2			d. Removed 10/19/79.
Oak Ridge	09/01/98	Present	NA	36° 01'	84° 14'	e913										S	ASOS Commissioned 09/01/98 e. Ground elevation.

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* NOTES: For earlier station history see previous editions.