



NOVEMBER 2008

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

OAK RIDGE, TN
 OAK RIDGE (KOQT)
 Lat:36° 1' N Long: 84° 14' W Elev (Ground) 913 Feet
 Time Zone : EASTERN WBAN: 53868 ISSN#: -



NOVEMBER 2008
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			
									DEPTH 11	WATER- EQUIV 12	SNOW- FALL 13	WATER EQUIV 14					SPEED 20	DIR 21	SPEED 22	DIR 23				
01	71	33	52	0	37	43	13	0	FG+ BR			0.00	29.42	30.41	0.1	20	0.1	13	07	6	08	01		
02	74	36	55	3	39	46	10	0				0.00	29.34	30.32			0.4	12	05	8	07	02		
03	74	38	56	4	41	47	9	0	BR			0.00	29.34	30.32	0.9	05	1.4	13	07	8	06	03		
04	74	40	57	6	43	49	8	0	BR			0.00	29.26	30.23	1.2	05	1.5	12	07	9	07	04		
05	75*	41	58*	7	44	49	7	0				0.00	29.14	30.11	0.9	08	1.3	13	06	9	08	05		
06	74	40	57	6	43	49	8	0	FG+ BR			0.00	29.08	30.06			0.9	14	26	9	25	06		
07	63	43	53	3	49	50	12	0	RA BR			0.29	28.97	29.93	1.7	25	1.9	13	26	8	25	07		
08	61	43	52	2	38	45	13	0	FG+ FG BR			0.00	28.88	29.85	3.4	23	4.1	23	21	16	21	08		
09	54	41	48	-2	33	41	17	0				0.00	28.98	30.00	1.7	27	2.0	16	27	10	27	09		
10	55	30	43	-6	29	37	22	0				0.00	29.21	30.24	0.4	16	0.8	9	15	6	15	10		
11	51	34	43	-6	33	39	22	0	RA			0.03	29.29	30.30	1.2	06	1.4	10	06	7	06	11		
12	55	43	49	0	44	46	16	0	RA			0.08	29.21	30.19	1.2	05	2.0	10	07	8	05	12		
13	55	49	52	4	53	53	13	0	RA BR			0.81	29.03	29.99	0.1	16	0.3	10	26	6	21	13		
14	59	54	57	9	57	57	8	0	RA FG+ FG BR			0.25	28.89	29.83	0.3	19	0.3	7	28	5	13	14		
15	59	40	50	2	44	47	15	0	RA BR			1.07	28.78	29.79	5.3	26	6.5	28*	26	18*	26	15		
16	41	30	36	-12	28	33	29	0	RA			0.02	29.16	30.19	3.6	25	4.8	16	26	10	21	16		
17	51	29	40	-7	26	34	25	0				0.00	29.23	30.26	3.1	28	4.6	22	28	14	27	17		
18	42	25	34	-13	15	27	31	0				0.00	29.39	30.44	2.8	34	4.0	26	01	15	36	18		
19	47	21	34	-13	18	27	31	0				0.00	29.30	30.30	0.8	22	1.5	15	22	10	21	19		
20	55	28	42	-4	25	35	23	0				0.00	29.13	30.15	1.6	32	2.9	18	30	12	35	20		
21	37	22	30	-16	13	26	35	0	SN			T	29.41	30.48	2.8	34	3.7	21	36	13	34	21		
22	39	17*	28*	-18	16	25	37	0				0.00	29.57	30.61	0.1	19	0.3	8	09	5	12	22		
23	53	26	40	-5	22	33	25	0				0.00	29.43	30.44	0.8	21	1.1	14	20	9	20	23		
24	49	41	45	0	40	43	20	0	RA BR			0.45	29.15	30.13	2.4	24	4.1	24	26	15	28	24		
25	47	28	38	-7	27	33	27	0	BR			0.00	29.12	30.14	1.7	26	3.1	22	27	14	29	25		
26	51	23	37	-7	26	32	28	0				0.00	29.16	30.17	2.0	20	2.1	12	21	8	18	26		
27	58	29	44	0	33	38	21	0				0.00	29.08	30.09	1.7	23	2.2	13	22	9	21	27		
28	58	34	46	2	33	40	19	0	BR			0.00	29.02	30.00	0.3	10	0.4	6	05	5	05	28		
29	51	42	47	3	32	40	18	0	RA BR			0.37	28.84	29.80	3.0	06	3.1	12	06	9	07	29		
30	48	40	44	1	43	44	21	0	RA BR			0.59	28.49	29.46	2.1	24	2.5	25	26	16	26	30		
56.0				34.7		45.4		☼	34.1	40.3	19.4	0.0	< MONTHLY AVERAGES TOTALS >				3.96	29.15	30.14	0.8	27	2.2	< MONTHLY AVERAGES	
-3.0				-1.7		-2.3			-----DEPARTURE FROM NORMAL ----->					-0.90	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
DEGREE DAYS									GREATEST 24-HR PRECIPITATION : 1.32 DATE : 14-15				SEA LEVEL PRESSURE				DATE		TIME					
MONTHLY									GREATEST 24-HR SNOWFALL :				MAXIMUM :				30.71		22 0908					
TOTAL DEPARTURE									GREATEST SNOW DEPTH :				MINIMUM :				29.36		30 1353					
SEASON TO DATE									NUMBER OF ->				MAXIMUM TEMP >= 90 : 0				MINIMUM TEMP <= 32 : 12				PRECIPITATION >= 0.01 INCH: 10			
TOTAL DEPARTURE									THUNDERSTORMS : 0				MAXIMUM TEMP <= 32 : 0				MINIMUM TEMP <= 0 : 0				PRECIPITATION >= 0.10 INCH: 7			
HEATING : 583 65 818 40													THUNDERSTORMS : 0				HEAVY FOG : 4				SNOWFALL >= 1.0 INCH :			
COOLING : 0 -1 1535 234																								

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)
NOVEMBER 2008

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												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												T	07	0.10	0.13	T	T		0.01	0.05	T			07	0.29	0.29		
08													08												08	0.00	0.00	
09													09												09	0.00	0.00	
10													10												10	0.00	0.00	
11												T	11						0.01	T	T			T	0.02	0.03	0.03	
12	0.02	T	T	0.02	0.02	T	T	0.01					12											0.01	0.08	0.08		
13	0.01	0.01	0.04	0.37	0.26	0.08	0.02					T	13											0.01	0.81	0.81		
14												0.01	14											0.01	0.81	0.81		
15	0.68	0.20	0.04	0.03	0.06	0.05	0.01	T				T	15											0.01	0.25	0.25		
16	T	0.02	T										16											0.01	1.07	1.07		
17													17											0.01	0.25	0.25		
18													18											0.01	0.25	0.25		
19													19											0.01	0.25	0.25		
20													20											0.01	0.25	0.25		
21		T											21											0.01	0.25	0.25		
22													22											0.01	0.25	0.25		
23													23											0.01	0.25	0.25		
24		T	T		T	T	T	T	T	0.01	0.04	0.05	24	0.09	0.04	0.06	0.06	T	0.01	0.07		0.02		0.01	0.45	0.45		
25													25											0.01	0.45	0.45		
26													26											0.01	0.45	0.45		
27													27											0.01	0.45	0.45		
28													28											0.01	0.45	0.45		
29													29											0.01	0.45	0.45		
30	0.06	0.03	T	T	0.01	T	T	0.01	T	0.03	0.09	0.06	30	0.08	0.05	0.05	0.01	T		0.01	0.10		0.01	0.59	0.59	0.59		

* 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)	0.12	0.18	0.24	0.30	0.42	0.56	0.72	0.80	0.85	0.89	0.94	0.96
Ending Date	15	15	15	15	15	15	15	15	15	15	15	15
Ending Time (Hr/Min)	0050	0050	0051	0051	0103	0051	0106	0116	0140	0200	0202	0233

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 NOVEMBER 2008

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:

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

Date	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			Sky Cover	Satellite	Sky Cover	Satellite			
01							0.25	10.00	
02							8.00	10.00	
03							6.00	10.00	
04							6.00	10.00	
05							10.00	10.00	
06							0.25	10.00	
07							2.00	10.00	
08							0.25	10.00	
09							10.00	10.00	
10							10.00	10.00	
11							10.00	10.00	
12							9.00	10.00	
13							0.75	7.00	
14							0.00	2.00	
15							1.00	10.00	
16							8.00	10.00	
17							10.00	10.00	
18							10.00	10.00	
19							10.00	10.00	
20							10.00	10.00	
21							7.00	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							3.00	10.00	
25							4.00	10.00	
26							7.00	10.00	
27							10.00	10.00	
28							5.00	10.00	
29							4.00	10.00	
30							1.50	10.00	
MONTHLY AVGS							6.10	9.63	
SUNSHINE (Minutes)									
Total : 0					Possible :				
Percent Possible :									
NUMBER OF DAYS WITH :									
SKY CONDITION									
Clear		Partly CLDY			Cloudy			Missing	
MINIMUM VISIBILITY (MILES)									
<= .25			<= 3.0				>= 7.0		
4			9				16		

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

NOVEMBER 2008 KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)					
			Observation Time (LST)	Eff Cld Amt Oktas			DRY BULB	DEW POINT	WET BULB		RELATIVE HUMIDITY (PCT)	STATION				SEA LEVEL	Observation Time (LST)			Eff Cld Amt Oktas	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL		
SUNRISE: 0659 NOV 01 SUNSET: 1742																													
01	CLR	NC			10.00		38	35	37	89	0	00	29.48	30.47	01	CLR	NC			10.00		46	43	45	89	0	00	29.05	30.01
04	CLR	NC			10.00		36	33	35	89	0	00	29.47	30.45	04	CLR	NC			10.00		44	42	43	93	0	00	29.04	29.99
07	OVC	005			0.25	FG	34	34	34	100	0	00	29.48	30.48	07	CLR	NC			8.00		43	42	43	96	0	00	29.03	30.00
10	CLR	NC			10.00		47	41	44	80	0	00	29.49	30.49	10	BKN	049			10.00		56	47	51	72	0	00	29.01	29.98
13	CLR	NC			10.00		65	39	52	39	0	00	29.41	30.40	13	OVC	046			2.00	RA BR	57	53	55	87	3	25	28.96	29.93
16	CLR	NC			10.00		71	35	53	27	0	00	29.34	30.32	16	OVC	006			4.00	BR	57	55	56	93	3	27	28.90	29.87
19	CLR	NC			10.00		55	40	48	57	0	00	29.35	30.35	19	OVC	030			4.00	-RA BR	56	55	55	96	5	25	28.90	29.87
22	CLR	NC			10.00		46	40	43	80	0	00	29.37	30.36	22	SCT	009			9.00		54	53	53	96	8	25	28.92	29.88
SUNRISE: 0700 NOV 02 SUNSET: 1741																													
01	CLR	NC			10.00		42	38	40	86	0	00	29.36	30.34	01	BKN	036			10.00		50	47	48	90	5	VR	28.94	29.91
04	CLR	NC			10.00		38	36	37	93	0	00	29.35	30.32	04	SCT	001			2.00	BR	43	42	43	96	0	00	28.91	29.89
07	CLR	NC			9.00		36	34	35	92	0	00	29.37	30.37	07	VV	001			0.50	FG	44	44	44	100	0	00	28.91	29.89
10	CLR	NC			10.00		55	44	49	67	0	00	29.38	30.37	10	CLR	NC			10.00		49	45	47	86	5	VR	28.92	29.89
13	CLR	NC			10.00		69	42	55	38	0	00	29.33	30.30	13	FEW	050			10.00		58	35	47	42	9	24	28.84	29.81
16	CLR	NC			10.00		73	37	55	27	0	00	29.28	30.26	16	SCT	075			10.00		60	30	46	32	9	23	28.80	29.77
19	CLR	NC			10.00		56	42	49	60	0	00	29.31	30.31	19	OVC	080			10.00		56	30	44	37	3	24	28.85	29.82
22	CLR	NC			10.00		48	41	45	77	0	00	29.34	30.32	22	CLR	NC			10.00		48	34	42	59	0	00	28.88	29.86
SUNRISE: 0701 NOV 03 SUNSET: 1740																													
01	CLR	NC			8.00		43	40	42	89	0	00	29.35	30.32	01	OVC	070			10.00		50	32	42	50	0	00	28.90	29.87
04	CLR	NC			8.00		41	39	40	93	0	00	29.35	30.32	04	CLR	NC			10.00		44	33	39	65	0	00	28.92	29.89
07	CLR	NC			7.00		39	37	38	93	0	00	29.39	30.38	07	OVC	060			10.00		44	36	40	74	0	00	28.96	29.93
10	CLR	NC			10.00		57	45	51	64	3	VR	29.43	30.41	10	OVC	050			10.00		49	35	43	59	0	00	29.02	29.99
13	CLR	NC			10.00		70	43	56	38	0	00	29.34	30.32	13	OVC	047			10.00		52	32	43	47	0	00	29.01	29.98
16	CLR	NC			10.00		73	40	56	30	5	VR	29.27	30.25	16	CLR	NC			10.00		51	31	42	46	5	29	29.03	30.01
19	CLR	NC			10.00		59	43	51	56	0	00	29.28	30.27	19	CLR	NC			10.00		45	32	39	60	3	VR	29.09	30.08
22	CLR	NC			10.00		49	43	46	80	0	00	29.30	30.28	22	FEW	038			10.00		42	31	37	65	3	26	29.13	30.13
SUNRISE: 0702 NOV 04 SUNSET: 1739																													
01	CLR	NC			10.00		45	42	44	89	0	00	29.31	30.28	01	OVC	036			10.00		42	30	37	63	0	00	29.17	30.17
04	CLR	NC			7.00		43	41	42	93	0	00	29.30	30.27	04	CLR	NC			10.00		34	29	32	82	0	00	29.18	30.19
07	CLR	NC			7.00		40	38	39	93	0	00	29.32	30.31	07	CLR	NC			10.00		31	28	30	89	0	00	29.24	30.26
10	CLR	NC			10.00		57	46	51	67	0	00	29.32	30.31	10	CLR	NC			10.00		43	29	37	58	3	VR	29.29	30.29
13	CLR	NC			10.00		71	46	57	41	6	36	29.24	30.21	13	CLR	NC			10.00		50	27	40	41	6	16	29.23	30.22
16	CLR	NC			10.00		72	42	56	34	6	08	29.17	30.15	16	CLR	NC			10.00		55	27	43	34	3	21	29.22	30.22
19	CLR	NC			10.00		60	45	52	58	0	00	29.18	30.16	19	CLR	NC			10.00		46	31	40	56	0	00	29.23	30.24
22	CLR	NC			10.00		50	44	47	80	0	00	29.18	30.16	22	CLR	NC			10.00		38	31	35	76	0	00	29.29	30.29
SUNRISE: 0703 NOV 05 SUNSET: 1738																													
01	CLR	NC			10.00		47	44	46	89	0	00	29.17	30.14	01	CLR	NC			10.00		36	31	34	82	0	00	29.29	30.29
04	CLR	NC			10.00		45	43	44	93	0	00	29.16	30.13	04	CLR	NC			10.00		35	30	33	82	0	00	29.29	30.29
07	CLR	NC			10.00		41	39	40	93	0	00	29.18	30.17	07	FEW	100			10.00		38	31	35	76	0	00	29.31	30.31
10	CLR	NC			10.00		58	48	53	70	0	00	29.20	30.18	10	BKN	100			10.00		45	30	39	56	0	00	29.36	30.36
13	CLR	NC			10.00		70	47	57	44	7	06	29.13	30.10	13	BKN	110			10.00		50	28	41	43	5	VR	29.32	30.32
16	CLR	NC			10.00		74	43	57	33	0	00	29.09	30.05	16	BKN	100			10.00		50	32	42	50	6	05	29.28	30.28
19	CLR	NC			10.00		59	46	52	62	0	00	29.10	30.07	19	OVC	095			10.00	-RA	45	40	43	83	3	06	29.28	30.28
22	CLR	NC			10.00		49	45	47	86	0	00	29.10	30.07	22	OVC	090			10.00		45	40	43	83	0	00	29.27	30.27
SUNRISE: 0704 NOV 06 SUNSET: 1737																													
01	CLR	NC			10.00		46	43	45	89	0	00	29.10	30.06	01	OVC	090			9.00	-RA	44	43	44	96	0	00	29.27	30.26
04	CLR	NC			10.00		43	42	43	96	0	00	29.10	30.06	04	OVC	080			10.00	-RA	43	41	42	93	0	00	29.27	30.27
07	CLR	NC			10.00		40	38	39	93	0	00	29.13	30.12	07	OVC	070			10.00	-RA	44	43	44	96	0	00	29.29	30.28
10	CLR	NC			10.00		54	47	50	77	0	00	29.15	30.14	10	FEW	044			10.00		47	44	46	89	5	VR	29.26	30.25
13	CLR	NC			10.00		71	47	58	43	7	VR	29.09	30.04	13	OVC	065			10.00		54	44	49	69	0	00	29.21	30.19
16	CLR	NC			10.00		73	43	57	34	3	VR	29.04	30.00	16	OVC	080			10.00		55	44	49	67	3	04	29.16	30.14
19	CLR	NC			10.00		58	44	51	60	0	00	29.05	30.03	19	CLR	NC			10.00		50	45	48	83	3	07	29.09	30.07
22	CLR	NC			10.00		50	44	47	80	0	00	29.06	30.03	22	OVC	095			10.00		50	46	48	86	0	00	29.10	30.08

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN
NOVEMBER 2008

KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)											
			Observation Time (LST)	Eff Cld Amt Oktas			DRY BULB	DEW POINT	WET BULB		RELATIVE HUMIDITY (PCT)	STATION				SEA LEVEL	Observation Time (LST)			Eff Cld Amt Oktas	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL								
SUNRISE: 0711						NOV 13						SUNSET: 1731						SUNRISE: 0717						NOV 19						SUNSET: 1727					
01	OVC	043			7.00	-RA	50	48	49	93	0	00	29.06	30.03	01	CLR	NC			10.00			24	18	22	78	0	00	29.43	30.45					
04	OVC	041			1.50	+RA BR	51	51	51	100	0	00	29.00	29.97	04	CLR	NC			10.00			22	18	21	85	0	00	29.42	30.45					
07	OVC	014			6.00	BR	52	52	52	100	0	00	29.05	30.03	07	CLR	NC			10.00			21	18	20	88	0	00	29.41	30.45					
10	OVC	010			2.50	-RA BR	54	53	53	96	0	00	29.07	30.04	10	CLR	NC			10.00			30	23	28	75	0	00	29.37	30.40					
13	OVC	004			2.50	BR	54	53	53	96	0	00	29.03	30.01	13	CLR	NC			10.00			42	14	32	32	6	22	29.26	30.29					
16	OVC	006			3.00	BR	54	54	54	100	3	16	28.99	29.96	16	CLR	NC			10.00			46	13	34	26	7	VR	29.14	30.16					
19	OVC	002			1.75	BR	54	54	54	100	0	00	28.98	29.95	19	CLR	NC			10.00			41	17	32	38	0	00	29.13	30.16					
22	OVC	002			1.75	BR	54	54	54	100	0	00	28.98	29.95	22	CLR	NC			10.00			33	20	28	59	0	00	29.14	30.17					
SUNRISE: 0712						NOV 14						SUNRISE: 0718						NOV 20						SUNSET: 1727											
01	OVC	002			1.00	BR	54	54	54	100	0	00	28.94	29.91	01	CLR	NC			10.00			36	21	31	55	3	22	29.13	30.14					
04	VV	001			0.50	FG	55	55	55	100	0	00	28.93	29.90	04	CLR	NC			10.00			34	22	30	62	5	25	29.13	30.13					
07	VV	001			0.25	FG	55	55	55	100	0	00	28.92	29.89	07	CLR	NC			10.00			29	23	27	78	0	00	29.14	30.16					
10	VV	001			0.25	FG	56	56	56	100	0	00	28.95	29.91	10	CLR	NC			10.00			42	26	36	53	0	00	29.17	30.19					
13	OVC	003			1.00	BR	58	58	58	100	0	00	28.89	29.85	13	CLR	NC			10.00			51	29	42	43	0	00	29.13	30.12					
16	VV	001			0.25	FG	59	59	59	100	0	00	28.85	29.81	16	CLR	NC			10.00			55	26	43	33	3	VR	29.10	30.09					
19	VV	001			0.75	RA BR	59	59	59	100	0	00	28.82	29.78	19	OVC	100			10.00			45	27	38	49	6	36	29.15	30.16					
22	OVC	010			1.50	BR	58	58	58	100	0	00	28.74	29.70	22	OVC	080			10.00			41	26	35	55	5	33	29.20	30.20					
SUNRISE: 0713						NOV 15						SUNRISE: 0719						NOV 21						SUNSET: 1726											
01	OVC	028			1.00	+RA BR	59	58	58	97	8	28	28.67	29.62	01	OVC	031			10.00			35	22	30	59	6	34	29.25	30.25					
04	OVC	060			9.00	-RA	56	54	55	93	5	26	28.66	29.61	04	BKN	046			10.00			31	14	26	49	3	34	29.30	30.30					
07	OVC	070			10.00	-RA	51	49	50	93	5	20	28.69	29.64	07	OVC	055			10.00			30	14	25	51	0	00	29.37	30.39					
10	OVC	046			10.00		52	46	49	80	9	24	28.76	29.72	10	BKN	044			10.00			30	14	25	51	5	01	29.47	30.49					
13	OVC	034			10.00		51	40	46	66	9	27	28.81	29.77	13	BKN	050			10.00			34	11	27	38	3	VR	29.49	30.51					
16	OVC	044			10.00		48	37	43	66	9	28	28.87	29.85	16	CLR	NC			10.00			36	10	28	34	7	34	29.52	30.55					
19	OVC	075			10.00		44	34	40	68	8	27	28.98	29.96	19	CLR	NC			10.00			31	10	25	41	3	34	29.56	30.60					
22	OVC	080			10.00		41	35	38	79	3	30	29.04	30.02	22	CLR	NC			10.00			26	14	22	60	0	00	29.59	30.63					
SUNRISE: 0714						NOV 16						SUNRISE: 0720						NOV 22						SUNSET: 1726											
01	OVC	047			10.00	-RA	39	35	37	86	6	25	29.08	30.07	01	CLR	NC			10.00			21	16	20	81	0	00	29.59	30.64					
04	OVC	050			10.00		38	31	35	76	5	28	29.12	30.11	04	CLR	NC			10.00			19	15	18	84	0	00	29.61	30.66					
07	OVC	042			10.00		37	27	33	67	7	VR	29.15	30.16	07	CLR	NC			10.00			17	13	16	84	0	00	29.63	30.69					
10	OVC	034			10.00		37	24	32	59	8	26	29.21	30.22	10	CLR	NC			10.00			30	21	27	69	3	VR	29.65	30.70					
13	OVC	034			10.00		38	25	33	60	6	VR	29.22	30.22	13	CLR	NC			10.00			36	12	28	37	0	00	29.59	30.64					
16	OVC	038			10.00		40	25	34	55	6	26	29.19	30.20	16	CLR	NC			10.00			38	11	29	33	0	00	29.54	30.58					
19	CLR	NC			10.00		37	27	33	67	0	00	29.20	30.22	19	BKN	120			10.00			35	17	29	48	0	00	29.50	30.55					
22	CLR	NC			10.00		32	27	30	82	3	21	29.22	30.24	22	OVC	110			10.00			34	20	29	57	0	00	29.49	30.52					
SUNRISE: 0715						NOV 17						SUNRISE: 0721						NOV 23						SUNSET: 1725											
01	CLR	NC			10.00		30	27	29	89	0	00	29.23	30.25	01	OVC	090			10.00			34	22	30	62	0	00	29.48	30.50					
04	BKN	100			10.00		29	27	28	92	0	00	29.21	30.23	04	OVC	090			10.00			33	24	30	70	0	00	29.48	30.50					
07	CLR	NC			10.00		33	30	32	89	0	00	29.23	30.25	07	CLR	NC			10.00			27	22	25	81	0	00	29.49	30.52					
10	CLR	NC			10.00		38	32	36	79	6	22	29.28	30.29	10	CLR	NC			10.00			36	21	31	55	0	00	29.49	30.53					
13	CLR	NC			10.00		49	29	41	46	6	23	29.21	30.22	13	CLR	NC			10.00			48	17	37	29	3	14	29.42	30.43					
16	CLR	NC			10.00		49	24	39	38	7	28	29.20	30.21	16	CLR	NC			10.00			52	19	39	27	5	19	29.37	30.37					
19	OVC	055			10.00		43	24	36	47	8	27	29.26	30.27	19	BKN	065			10.00			42	24	35	49	0	00	29.36	30.38					
22	OVC	050			10.00		38	19	31	46	9	35	29.32	30.34	22	OVC	030			10.00			41	27	35	58	0	00	29.35	30.36					
SUNRISE: 0716						NOV 18						SUNRISE: 0722						NOV 24						SUNSET: 1725											
01	OVC	060			10.00		36	15	29	42	7	32	29.32	30.33	01	OVC	030			10.00			47	29	39	50	3	23	29.31	30.30					
04	FEW	070			10.00		31	14	26	49	5	VR	29.35	30.37	04	OVC	034			10.00			46	35	41	66	0	00	29.26	30.25					
07	BKN	050			10.00		29	16	25	58	3	01	29.38	30.40	07	OVC	034			10.00			47	38	43	71	3	VR	29.20	30.20					
10	FEW	045			10.00		34	16	28	48	10	31	29.44	30.46	10	OVC	033			8.00	-RA		46	42	44	86	0	00	29.19	30.19					
13	FEW	049			10.00		38	13	30	36	6	34	29.44	30.46	13	OVC	018			4.00	RA BR		47	45	46	93	6	VR	29.07	30.05					
16	FEW	060			10.00		38	10	29	31	8	34	29.44	30.46	16	OVC	014			3.00	-RA BR		47	46	47	96	6	25	29.00	29.98					
19	CLR	NC			10.00		33	14	27	46	0	00	29.46	30.49	19	OVC	024			10.00			48	47	47	96	8	21	29.02	30.00					
22	CLR	NC			10.00		27	19	24	72	0	00	29.46	30.49	22	BKN	100			10.00			45	31	39	58	7	30	29.10	30.10					

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

NOVEMBER 2008

KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)						
			Observation Time (LST)	Eff Cl'd Amt Oktas		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL				
SUNRISE: 0723						NOV 25						SUNSET: 1725					
01	CLR	NC				35	31	33	85	0	00	29.13	30.14				
04	CLR	NC			BR	33	31	32	92	3	22	29.10	30.10				
07	CLR	NC			BR	31	30	31	96	3	22	29.08	30.08				
10	CLR	NC				41	30	36	65	6	22	29.13	30.13				
13	CLR	NC				44	23	36	44	8	30	29.13	30.14				
16	CLR	NC				45	24	37	44	3	VR	29.13	30.13				
19	CLR	NC				39	24	33	55	5	29	29.16	30.18				
22	CLR	NC				31	25	29	78	0	00	29.20	30.22				
SUNRISE: 0724						NOV 26						SUNSET: 1724					
01	CLR	NC				26	24	25	92	0	00	29.20	30.22				
04	CLR	NC				26	23	25	88	0	00	29.20	30.22				
07	CLR	NC				25	22	24	88	0	00	29.20	30.23				
10	CLR	NC				34	27	31	76	0	00	29.23	30.26				
13	CLR	NC				47	26	38	44	6	21	29.16	30.18				
16	CLR	NC				50	27	40	41	7	17	29.10	30.11				
19	CLR	NC				41	30	36	65	0	00	29.09	30.10				
22	CLR	NC				36	30	34	79	3	23	29.10	30.11				
SUNRISE: 0725						NOV 27						SUNSET: 1724					
01	CLR	NC				34	29	32	82	3	23	29.10	30.09				
04	CLR	NC				30	28	29	92	0	00	29.12	30.11				
07	CLR	NC				31	28	30	89	3	26	29.13	30.14				
10	CLR	NC				45	34	40	65	5	VR	29.14	30.15				
13	CLR	NC				54	36	46	51	3	VR	29.09	30.08				
16	CLR	NC				58	36	48	44	5	22	29.05	30.04				
19	CLR	NC				46	38	42	74	3	23	29.04	30.04				
22	CLR	NC				42	36	39	79	0	00	29.06	30.06				
SUNRISE: 0726						NOV 28						SUNSET: 1724					
01	CLR	NC				36	33	35	89	0	00	29.05	30.03				
04	CLR	NC				36	34	35	92	0	00	29.04	30.03				
07	CLR	NC				34	33	34	96	0	00	29.05	30.05				
10	CLR	NC				45	41	43	86	0	00	29.06	30.05				
13	CLR	NC				56	34	46	44	0	00	29.00	29.98				
16	CLR	NC				58	35	47	42	0	00	28.98	29.96				
19	CLR	NC				51	33	43	50	0	00	29.01	29.99				
22	OVC	110				48	26	39	42	3	09	28.97	29.96				
SUNRISE: 0727						NOV 29						SUNSET: 1723					
01	SCT	090				46	27	38	48	3	10	28.94	29.92				
04	OVC	100				46	26	38	46	0	00	28.91	29.88				
07	OVC	090				46	24	37	42	6	06	28.88	29.85				
10	OVC	090				49	23	39	36	7	07	28.87	29.84				
13	OVC	049				51	26	41	38	3	09	28.83	29.80				
16	OVC	027			-RA	42	40	41	93	5	05	28.79	29.78				
19	OVC	039				42	41	42	96	0	00	28.76	29.74				
22	OVC	025				44	42	43	93	3	05	28.71	29.68				
SUNRISE: 0728						NOV 30						SUNSET: 1723					
01	OVC	019			RA BR	44	44	44	100	0	00	28.64	29.60				
04	OVC	013			BR	45	44	45	96	0	00	28.57	29.54				
07	OVC	011			BR	45	44	45	96	0	00	28.49	29.47				
10	OVC	011			-RA BR	45	44	45	96	0	00	28.44	29.41				
13	OVC	007			-RA BR	47	46	47	96	7	25	28.40	29.36				
16	OVC	055				46	45	46	96	5	21	28.40	29.37				
19	OVC	049			-RA	42	40	41	93	3	24	28.45	29.43				
22	OVC	090				40	37	39	89	7	VR	28.50	29.48				

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		
			Observation Time (LST)	Eff Cl'd Amt Oktas		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL

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.

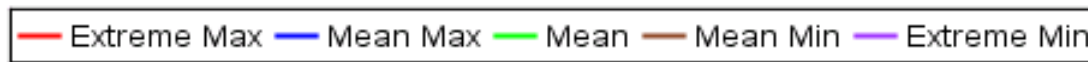
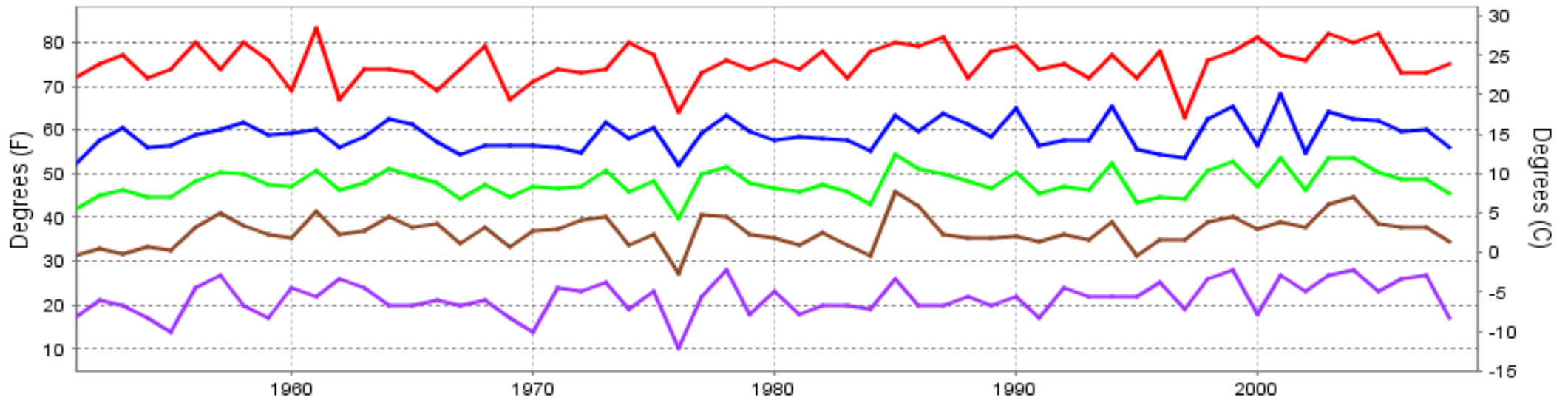
& = Original observation contained additional weather elements.

See page 3 for additional notes.

SUMMARY BY HOUR

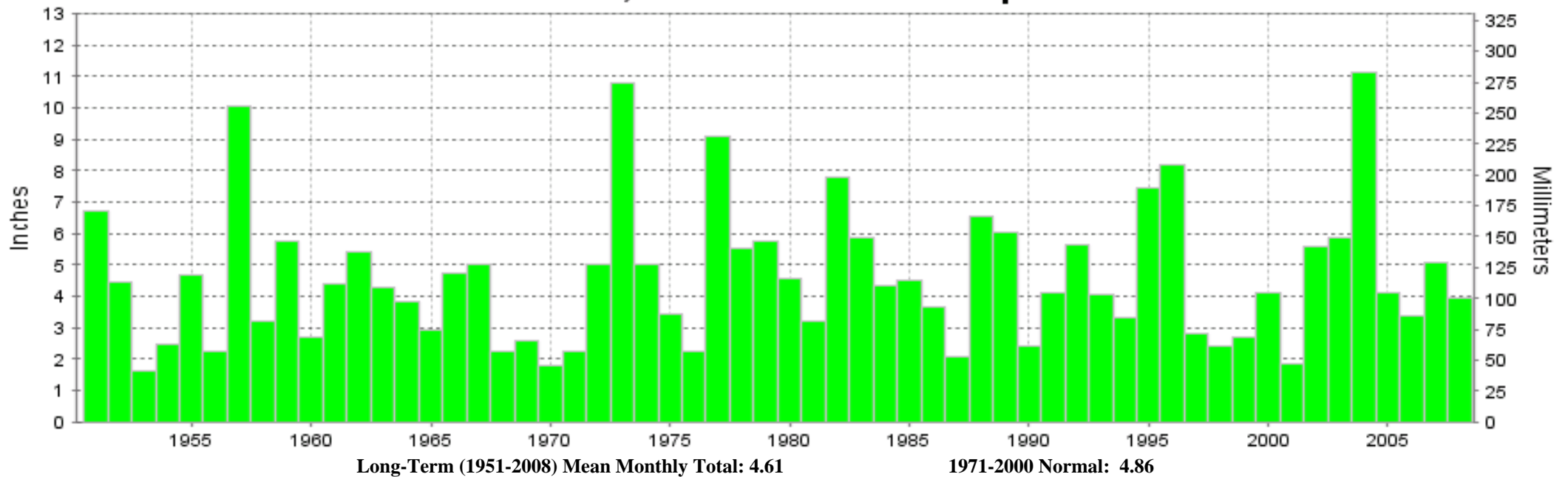
HOUR (LST)	AVERAGES										RESULTANT WIND (MPH)	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			41	34	38	80	29.16	30.15	8.88	1	3	29
02			40	34	37	81	29.16	30.15	8.87	1	2	31
03			39	34	37	83	29.16	30.15	8.90	1	2	30
04			38	33	36	83	29.16	30.15	8.57	1	3	29
05			38	33	36	84	29.16	30.15	8.18	2	1	35
06			37	33	36	84	29.17	30.16	8.27	1	2	34
07			37	33	36	85	29.17	30.17	8.07	1	1	35
08			38	33	36	85	29.18	30.18	7.68	2	2	29
09			41	35	39	81	29.19	30.19	8.78	2	2	30
10			45	36	41	71	29.19	30.19	9.13	3	3	29
11			49	35	43	60	29.19	30.18	8.96	3	1	05
12			51	34	44	55	29.17	30.16	8.85	4	2	28
13			53	34	45	52	29.14	30.13	8.82	4	2	28
14			54	34	45	51	29.12	30.11	8.79	4	3	28
15			54	34	45	50	29.11	30.10	8.78	4	2	28
16			54	33	45	50	29.11	30.10	8.94	4	2	28
17			53	33	44	52	29.11	30.10	8.80	4	2	28
18			50	35	43	60	29.11	30.11	9.05	2	2	29
19			47	35	42	65	29.12	30.12	9.22	2	3	28
20			45	36	41	71	29.13	30.13	9.18	1	3	31
21			44	35	40	73	29.13	30.13	9.25	1	3	29
22			43	35	39	74	29.14	30.13	9.31	2	2	29
23			42	34	39	75	29.14	30.13	9.27	2	3	28
24			41	34	38	78	29.14	30.13	9.23	2	2	29

OAK RIDGE, TN NOVEMBER Temperatures



Long-Term (1951-2008) Mean: 47.8
1971-2000 Normal: 47.7

OAK RIDGE, TN NOVEMBER Precipitation



Long-Term (1951-2008) Mean Monthly Total: 4.61

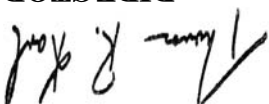
1971-2000 Normal: 4.86



**NOVEMBER 2008
OAK RIDGE, TN**

**LOCAL CLIMATOLOGICAL DATA
NOAA, National Climatic Data Center**

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DIRECTOR

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