



JANUARY 2010 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#: 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			
01	42	25	34	-3	24	31	31	0	BR			0.00	29.19	30.22	1.8	32	2.8	15	02	10	35	01		
02	30	17	24	-13	10	20	41	0	SN			T	29.30	30.36	2.2	34	4.2	17	34	12	33	02		
03	28	13	21	-16	7	16	44	0				0.00	29.30	30.36	2.0	01	3.4	15	34	10	06	03		
04	28	15	22	-15	12	19	43	0				0.00	29.23	30.28	0.7	31	1.9	18	33	12	33	04		
05	30	15	23	-14	11	19	42	0				0.00	29.21	30.27	1.8	25	2.3	13	25	8	26	05		
06	34	14	24	-12	12	20	41	0	HZ			0.00	29.24	30.29	0.8	24	1.2	12	19	8	18	06		
07	30	19	25	-11	20	23	40	0	SN BR			0.04	29.13	30.16	1.9	26	2.8	23*	29	14	29	07		
08	22	14	18	-18	6	15	47	0	SN			T	29.23	30.32	2.5	30	3.5	17	25	13	26	08		
09	27	8*	18*	-18	10	16	47	0	SN			T	29.38	30.46	1.1	34	1.7	14	36	10	36	09		
10	30	16	23	-13	12	20	42	0				0.00	29.47	30.54	1.3	03	2.3	13	08	10	07	10		
11	33	14	24	-12	16	22	41	0	SN			T	29.34	30.38	1.7	24	2.7	16	23	10	26	11		
12	32	26	29	-7	20	26	36	0	SN			T	29.34	30.40	2.4	01	3.6	17	33	10	34	12		
13	42	16	29	-7	18	24	36	0	BR			0.00	29.39	30.43	0.3	04	0.7	13	07	8	04	13		
14	49	20	35	-1	22	28	30	0	BR			0.00	29.31	30.35	0.3	24	0.3	8	25	5	27	14		
15	58	23	41	5	23	32	24	0	BR			0.00	29.31	30.34	0.2	09	0.3	8	07	6	09	15		
16	51	30	41	5	30	36	24	0	RA BR			0.22	29.22	30.18	3.1	05	3.2	15	05	10	05	16		
17	51	45	48	12	47	48	17	0	RA BR			0.74	28.72	29.70	1.4	02	3.6	18	05	10	05	17		
18	58	33	46	10	38	41	19	0	FG+ BR			0.00	29.02	30.04	1.0	19	1.2	15	19	8	19	18		
19	61*	34	48	12	41	44	17	0				0.00	29.05	30.03	0.4	22	0.7	13	19	9	19	19		
20	53	49	51	14	50	50	14	0	RA FG BR			0.74	28.97	29.92	1.1	24	1.5	14	24	8	25	20		
21	58	47	53*	16	50	50	12	0	RA BR			1.48	28.76	29.73	1.9	06	2.6	15	07	10	07	21		
22	50	45	48	11	46	47	17	0	RA BR			0.19	28.86	29.86	0.4	10	1.6	10	24	8	07	22		
23	57	44	51	14	44	47	14	0	BR			0.00	29.00	29.98	1.0	15	2.2	12	15	8	14	23		
24	53	43	48	11	47	47	17	0	RA FG BR			2.81	28.68	29.61	0.2	11	0.9	14	30	10	29	24		
25	52	35	44	7			21	0	RA BR			0.19								13	25	25		
26	37	30	34	-3			31	0	SN			T	28.82				7.3	21	26	14*	25	26		
27	42	26	34	-3	22	30	31	0				0.00	29.31	30.34	0.6	23	1.0	12	28	8	26	27		
28	55	34	45	8	24	35	20	0				0.00	29.29	30.31	1.9	25	4.3	18	26	13	26	28		
29	35	28	32	-5	21	28	33	0	RA FZRA SN FG+ FZFG BR UP			0.62	29.28	30.26	6.2	05	6.6	17	04	12	05	29		
30	33	22	28	-10	27	29	37	0	RA FZRA SN BR UP			0.82	28.94	29.97	3.7	04	4.1	18	05	13	05	30		
31	35	16	26	-12	21	24	39	0	BR			0.00	29.26	30.33	0.1	04	0.1	8	07	6	19	31		

41.8	26.3	34.1	☼	25.2	30.6	30.6	0.0	< MONTHLY AVERAGES TOTALS >				7.85	29.15	30.19	0.6	36	2.5	< MONTHLY AVERAGES			
-4.1	-0.9	-2.5		-----DEPARTURE FROM NORMAL ----->				2.72	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3												

DEGREE DAYS				GREATEST 24-HR PRECIPITATION : 2.95 DATE : 24-25				SEA LEVEL PRESSURE							
MONTHLY				GREATEST 24-HR SNOWFALL :				DATE				TIME			
TOTAL DEPARTURE				GREATEST SNOW DEPTH :				MAXIMUM : 30.61				10 1100			
SEASON TO DATE				DATE :				MINIMUM : 29.44				25 0153			
TOTAL DEPARTURE				DATE :				PRECIPITATION >= 0.01 INCH : 10				PRECIPITATION >= 0.10 INCH : 9			
HEATING : 948 66 2418 -29				NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 0				MINIMUM TEMP <= 32 : 21			
COOLING : 0 0 0 0				THUNDERSTORMS : 0				MAXIMUM TEMP <= 32 : 9				MINIMUM TEMP <= 0 : 0			
								HEAVY FOG : 2				SNOWFALL >= 1.0 INCH :			

**JANUARY 2010
OAK RIDGE, TN**

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)
JANUARY 2010

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						T	T	T	T				02												02	T	T		
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		T	T	0.01	0.01	0.02	T		T	T		07	0.04	0.04		
08	T	T	T							T	T		08												08	T	T		
09													09				T								09	T	T		
10													10												10	0.00	0.00		
11													11												11	T	T		
12										T	T	T	12	T											12	T	T		
13													13												13	0.00	0.00		
14													14												14	0.00	0.00		
15													15												15	0.00	0.00		
16													16												16	0.22	0.22		
17	0.11	0.10	0.09	0.04	0.01	T				0.03	0.02	T	0.05	17	0.16	0.08	0.02	0.01	0.01	0.01			T	0.02	0.05	0.15	16	0.22	0.22
18													18												18	0.00	0.00		
19													19												19	0.00	0.00		
20			T	0.05		T	0.03	0.01	0.01			T	0.07	20	0.15	0.16	T			T	T	0.08	0.02	0.11	0.05	20	0.74	0.74	
21					T	0.01			T	0.09	0.14	0.07	21							T	0.06	0.30	0.33	0.07	0.35	0.06	21	1.48	1.48
22	0.03	0.03	0.02	0.02	0.05	0.01	0.01	0.02					22												22	0.19	0.19		
23													23												23	0.00	0.00		
24							0.13	0.17	0.18	0.21	0.14	0.26	24	0.19	0.20	0.49	0.38	0.34	0.11	T	0.01			T	24	2.81	2.81		
25	0.02	0.06				0.06	0.02		0.01	0.02			25												25	0.19	0.19		
26												T	26			T			T	T					26	T	T		
27													27												27	0.00	0.00		
28													28												28	0.00	0.00		
29													29		T	0.05	0.01	0.01	0.01	0.02	0.05	0.02	0.05	0.14	0.26	29	0.62	0.62	
30	0.28	0.11	0.10	0.02	0.04	0.06	0.05	0.02	0.06	0.02	0.01	T	30	T	0.02	0.01	T	0.01	0.01	T	T				30	0.82	0.82		
31													31												31	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.

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 JANUARY 2010

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							5.00	10.00	
02							4.00	10.00	
03							10.00	10.00	
04							10.00	10.00	
05							10.00	10.00	
06							6.00	10.00	
07							0.75	10.00	
08							8.00	10.00	
09							8.00	10.00	
10							10.00	10.00	
11							4.00	10.00	
12							2.00	10.00	
13							5.00	10.00	
14							5.00	10.00	
15							4.00	10.00	
16							4.00	10.00	
17							2.00	10.00	
18							0.25	10.00	
19							10.00	10.00	
20							0.75	10.00	
21							1.00	10.00	
22							3.00	10.00	
23							5.00	10.00	
24							1.00	10.00	
25							3.00	10.00	
26							7.00	10.00	
27							10.00	10.00	
28							10.00	10.00	
29							0.50	10.00	
30							1.25	10.00	
31							0.75	10.00	
MONTHLY AVGS							4.88	10.00	
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				
1		12			10				

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

JANUARY 2010

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: 0742						JAN 25						SUNSET: 1756					
01	OVC	012				51	50	50	96	5	23	28.49	29.45				
04	FEW	032				49	47	48	93	5	22	28.49	29.45				
07	OVC	060				44	39	42	83	11	25	28.57	29.54				
10	OVC	050				42	38	40	86	5	24	28.64	29.61				
13	OVC	070				43	30	38	60	11	23	28.64	29.61				
16																	
19																	
22																	
SUNRISE: 0742						JAN 26						SUNSET: 1757					
01																	
04																	
07																	
10																	
13	OVC	039				34	21	29	59	7	VR	29.00	29.99				
16	OVC	055				34	21	29	59	9	24	29.03	30.03				
19	OVC	049				35	23	31	62	6	VR	29.10	30.10				
22	OVC	035				33	25	30	72	7	25	29.19	30.20				
SUNRISE: 0741						JAN 27						SUNSET: 1758					
01	OVC	029				32	22	28	67	5	25	29.25	30.27				
04	SCT	029				30	20	27	66	0	00	29.25	30.28				
07	CLR	NC				26	22	25	85	0	00	29.31	30.34				
10	CLR	NC				32	20	28	61	0	00	29.37	30.40				
13	CLR	NC				37	22	32	55	0	00	29.37	30.39				
16	CLR	NC				41	20	33	43	3	VR	29.34	30.36				
19	FEW	120				37	23	32	57	0	00	29.33	30.36				
22	OVC	100				35	25	31	67	0	00	29.33	30.35				
SUNRISE: 0741						JAN 28						SUNSET: 1759					
01	OVC	070				38	25	33	60	0	00	29.32	30.34				
04	OVC	060				38	25	33	60	0	00	29.30	30.31				
07	OVC	060				39	26	34	60	3	22	29.30	30.31				
10	SCT	046				43	29	37	58	6	VR	29.32	30.33				
13	CLR	NC				54	32	44	43	9	23	29.28	30.28				
16	CLR	NC				50	24	39	36	8	25	29.27	30.27				
19	CLR	NC				42	20	34	41	0	00	29.29	30.30				
22	CLR	NC				37	15	30	41	0	00	29.31	30.32				
SUNRISE: 0740						JAN 29						SUNSET: 1800					
01	CLR	NC				34	15	28	46	6	06	29.33	30.33				
04	CLR	NC				32	15	27	49	7	06	29.31	30.32				
07	OVC	100				31	15	26	51	9	06	29.30	30.32				
10	OVC	090				31	14	26	49	6	04	29.32	30.35				
13	OVC	085				33	17	28	52	8	03	29.31	30.34				
16	OVC	046				29	26	28	89	6	05	29.25	30.28				
19	OVC	030				29	28	29	96	7	05	29.17	30.20				
22	OVC	055				30	28	29	92	9	06	29.03	30.05				
SUNRISE: 0739						JAN 30						SUNSET: 1801					
01	OVC	046				30	29	30	96	7	04	28.98	29.99				
04	OVC	036				32	31	32	96	7	06	28.90	29.92				
07	OVC	029				33	32	33	96	5	04	28.87	29.88				
10	OVC	026				33	31	32	92	5	05	28.90	29.91				
13	OVC	019				32	30	31	92	6	05	28.88	29.90				
16	OVC	007				30	28	29	92	6	07	28.91	29.92				
19	OVC	065				26	20	24	78	3	VR	29.03	30.05				
22	BKN	021				23	20	22	88	0	00	29.10	30.13				

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: 0738						JAN 31						SUNSET: 1802					
01	OVC	023															
04	OVC	027															
07	CLR	NC															
10	CLR	NC															
13	BKN	018															
16	CLR	NC															
19	CLR	NC															
22	CLR	NC															

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.

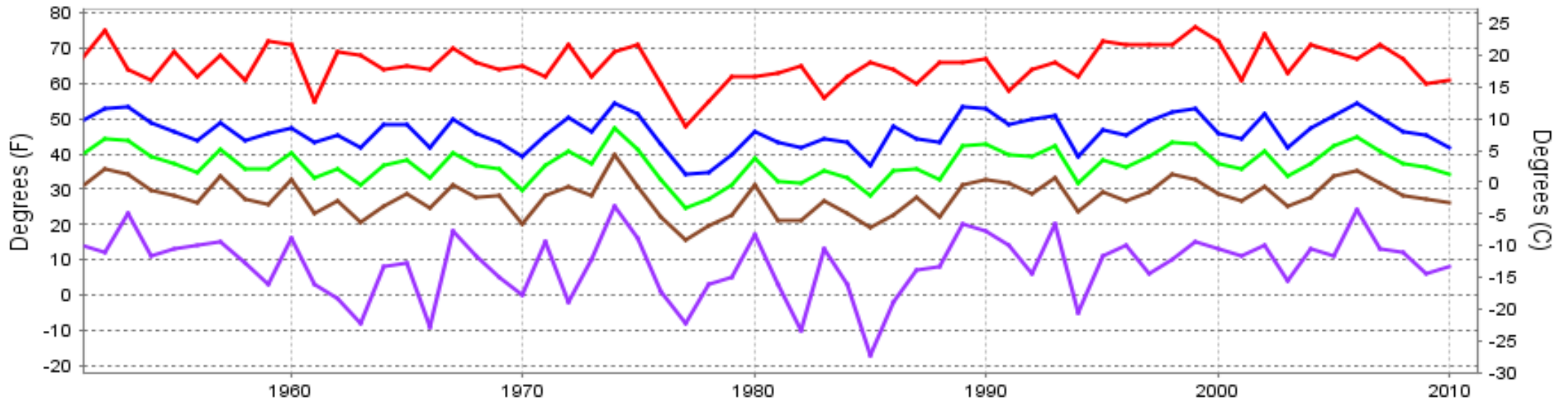
& = Original observation contained additional weather elements.

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			31	25	29	80	29.15	30.17	8.95	2	2	36
02			31	25	29	80	29.15	30.16	9.05	1	2	35
03			31	25	29	81	29.15	30.17	8.77	2	2	34
04			30	25	29	82	29.15	30.16	8.73	1	2	01
05			30	25	28	82	29.14	30.16	8.22	1	2	02
06			30	25	28	83	29.14	30.16	8.16	2	2	33
07			29	24	28	83	29.16	30.18	8.30	2	2	35
08			29	24	27	83	29.17	30.19	8.05	1	2	01
09			30	25	29	82	29.18	30.20	7.38	2	2	35
10			33	26	30	77	29.18	30.20	8.01	3	1	02
11			35	26	32	70	29.18	30.20	9.05	3	2	35
12			37	26	33	67	29.17	30.19	8.77	3	1	33
13			38	26	34	64	29.14	30.16	9.06	4	3	30
14			39	26	34	61	29.12	30.13	8.60	4	1	34
15			40	26	35	61	29.13	30.14	8.77	4	1	33
16			40	25	34	60	29.13	30.15	8.72	3	1	35
17			39	25	34	60	29.14	30.16	8.53	3	2	30
18			38	26	33	64	29.14	30.16	8.98	3	1	32
19			36	26	32	68	29.16	30.18	9.25	2	2	33
20			35	26	32	72	29.16	30.19	9.10	3	1	35
21			34	26	31	74	29.17	30.19	8.47	3	1	36
22			33	25	30	75	29.17	30.19	8.69	2	2	36
23			32	26	30	78	29.17	30.19	8.93	2	2	34
24			31	25	29	79	29.17	30.18	8.67	2	2	04

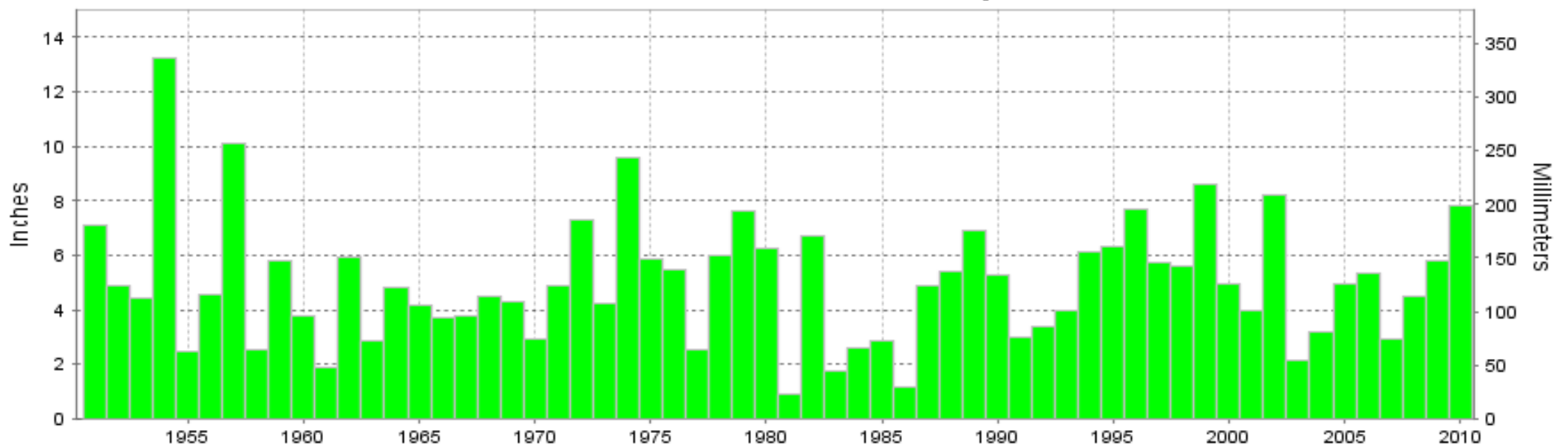
OAK RIDGE, TN JANUARY Temperatures



— Extreme Max — Mean Max — Mean — Mean Min — Extreme Min

Long-Term (1951-2010) Mean: 37.1
1971-2000 Normal: 36.6

OAK RIDGE, TN JANUARY Precipitation



Long-Term (1951-2010) Mean Monthly Total: 5.00

1971-2000 Normal: 5.13



JANUARY 2010
OAK RIDGE, TN

LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

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