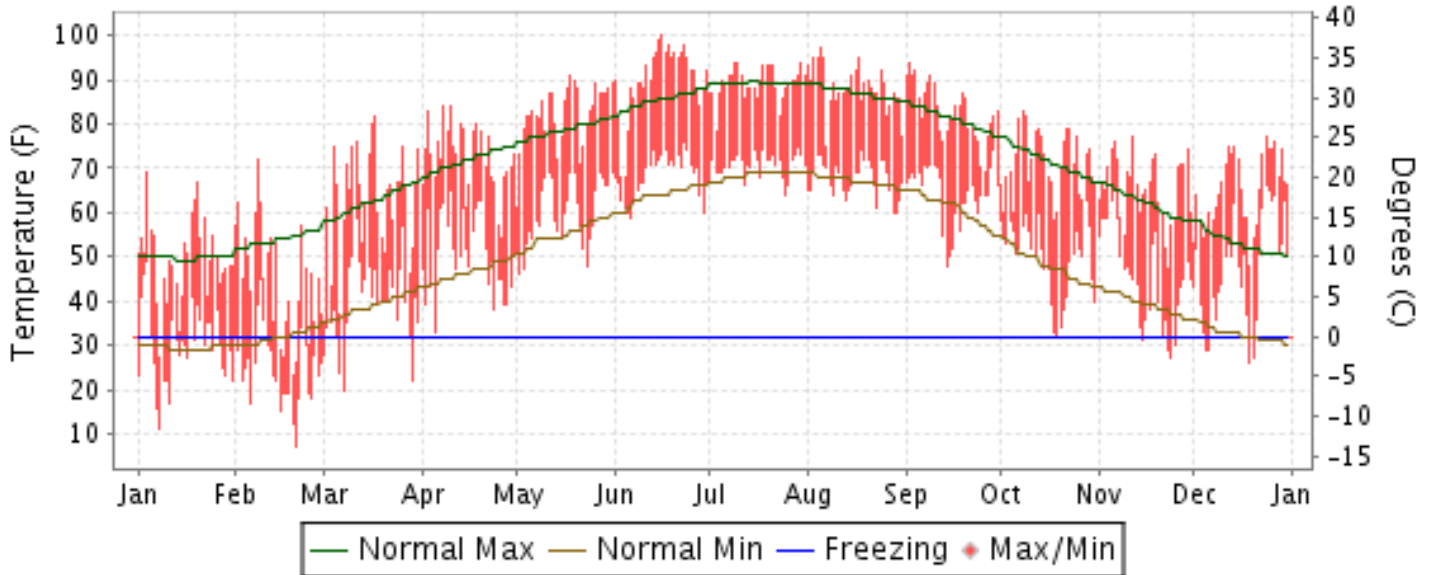




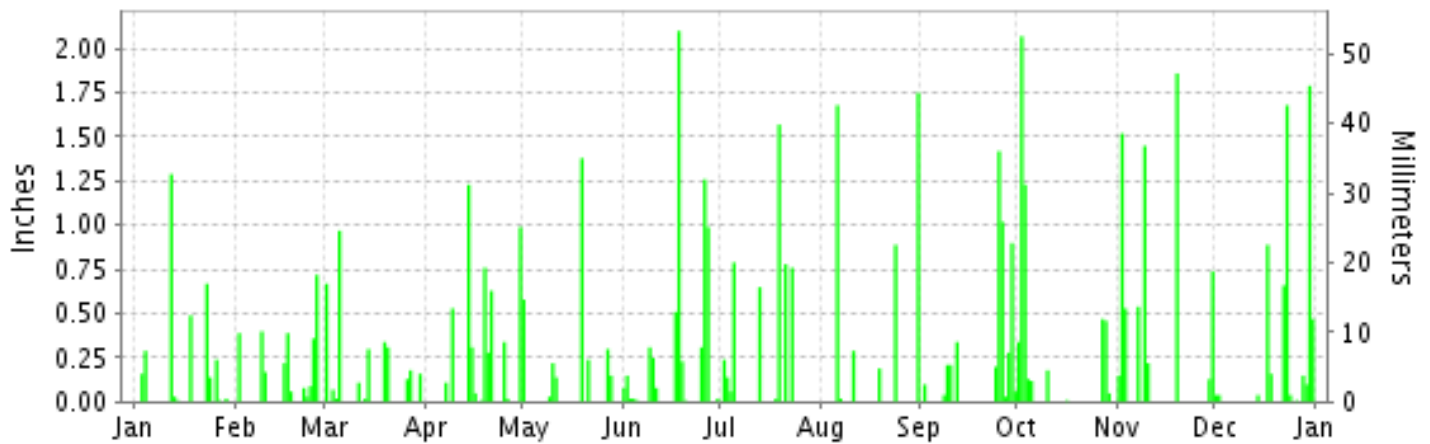
# 2015 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

ISSN 0198-3776

## RALEIGH/DURHAM, NORTH CAROLINA (KRDU) Daily Max/Min Temperature



## Daily Precipitation



## Daily Station Pressure



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER.

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

*Thomas R. Karl*  
DIRECTOR  
NCEI

# METEOROLOGICAL DATA FOR 2015

## RALEIGH/DURHAM (KRDU)

LATITUDE: 35° 53'N      LONGITUDE: 78° 46'W      ELEVATION (FT): GRND: 416 BARO: 430      TIME ZONE: EASTERN (UTC -5)      WBAN: 13722

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	49.5	45.0	62.7	72.5	82.3	90.1	89.2	88.3	82.8	71.0	65.5	65.1	72.0	
	HIGHEST DAILY MAXIMUM	69	72	82	84	91	100	94	97	94	83	77	77	100	
	DATE OF OCCURRENCE	04	08	17	10+	18	16	30+	05	02	08	12	24	JUN 16	
	MEAN DAILY MINIMUM	30.0	24.6	39.8	50.6	59.8	68.4	70.7	67.6	64.3	49.8	45.4	47.1	51.5	
	LOWEST DAILY MINIMUM	11	7	20	33	46	59	64	60	48	32	27	26	7	
	DATE OF OCCURRENCE	08	20	07	05	02	06	25	29+	14	19	24	19	FEB 20	
	AVERAGE DRY BULB	39.8	34.8	51.3	61.5	71.1	79.3	80.0	77.9	73.5	60.4	55.4	56.1	61.8	
	MEAN WET BULB	34.5	29.5	44.2	54.9	63.5	71.1	72.7	69.6	67.6	55.2	50.8	52.5	55.5	
	MEAN DEW POINT	25.5	18.8	35.9	48.3	58.8	67.2	69.3	65.3	64.5	51.5	46.1	49.3	50.0	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	2	18	16	11	5	0	0	0	0	52
	MAXIMUM <= 32°	1	5	0	0	0	0	0	0	0	0	0	0	0	6
MINIMUM <= 32°	21	24	6	0	0	0	0	0	0	1	5	4	61		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	775	836	419	148	20	0	0	0	2	159	290	295	2944	
	COOLING DEGREE DAYS	0	0	4	52	214	437	472	409	263	24	11	27	1913	
RH	MEAN (PERCENT)	61	55	61	66	69	71	73	69	78	77	75	81	70	
	HOUR 01 LST	67	61	70	78	84	85	85	83	91	89	84	88	80	
	HOUR 07 LST	72	67	70	73	75	75	78	75	86	86	86	90	78	
	HOUR 13 LST	49	44	49	50	50	52	59	51	60	58	57	67	54	
	HOUR 19 LST	56	53	59	64	68	71	73	69	80	83	78	82	70	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	4	2	3	0	0	0	0	0	4	0	3	7	23	
	THUNDERSTORMS	0	1	1	4	2	12	8	2	3	0	1	2	36	
PR	MEAN STATION PRESS. (IN.)	29.69	29.64	29.67	29.55	29.69	29.53	29.49	29.54	29.57	29.61	29.73	29.67	29.62	
	MEAN SEA-LEVEL PRESS. (IN.)	30.17	30.12	30.15	30.02	30.15	29.99	29.95	30.00	30.03	30.08	30.21	30.14	30.08	
WINDS	RESULTANT SPEED (MPH)	1.0	1.3	1.1	1.9	1.4	2.1	2.2	0.5	2.9	2.4	0.7	2.6	0.5	
	RES. DIR. (TENS OF DEGS.)	27	29	22	21	18	22	22	13	05	04	05	21	22	
	MEAN SPEED (MPH)	4.9	6.6	6.2	6.3	5.9	5.7	5.3	4.2	5.2	5.9	4.0	5.0	5.4	
	PREVAIL.DIR.(TENS OF DEGS.)	23	23	23	24	23	23	24	04	04	03	04	23	03	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	26	35	30	30	25	36	32	26	26	26	24	29	36	
	DIR. (TENS OF DEGS.)	24	27	23	23	35	22	28	23	23	05	23	23	22	
	DATE OF OCCURRENCE	04	14	04	10	19	20	21	06	09	04	12	23	JUN 20	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	39	48	39	38	35	51	45	32	32	37	31	35	51	
DIR. (TENS OF DEGS.)	21	29	23	03	33	22	23	33	24	05	23	22	22		
DATE OF OCCURRENCE	04	14	04	08	19	20	05	11	09	04	12	23	JUN 20		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	3.35	2.91	3.28	5.26	3.04	6.35	5.01	4.82	4.81	5.06	7.14	6.07	57.10	
	GREATEST 24-HOUR (IN.)	1.29	1.08	0.97	1.50	1.38	2.25	1.57	1.75	1.59	2.76	1.86	1.79	2.76	
	DATE OF OCCURRENCE	12	25-26	05	14-15	19	17-18	19	31	25-26	02-03	19	30	OCT 02-03	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	11	11	12	12	8	16	9	6	12	10	9	13	129		
PRECIPITATION 0.10	7	7	9	9	7	9	7	5	9	8	9	8	94		
PRECIPITATION 1.00	1	0	0	1	1	2	1	2	2	2	3	2	17		
SNOWFALL	SNOW,ICE PELLETS,HAIL	T	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	
	TOTAL (IN.)	T	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	
	GREATEST 24-HOUR (IN.)	29+	26											FEB 26	
	DATE OF OCCURRENCE	0	4	1	0	0	0	0	0	0	0	0	0	4	
	MAXIMUM SNOW DEPTH (IN.)		26	01										FEB 26	
	DATE OF OCCURRENCE														
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	0	3	0	0	0	0	0	0	0	0	0	0	3		

# NORMALS, MEANS, AND EXTREMES RALEIGH/DURHAM (KRDU)

**LATITUDE:** 35° 53'N      **LONGITUDE:** 78° 46'W      **ELEVATION (FT):** GRND: 416 BARO: 430      **TIME ZONE:** EASTERN (UTC -5)      **WBAN: 13722**

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>TEMPERATURE °F</b>	NORMAL DAILY MAXIMUM	30	50.9	55.2	63.4	72.4	79.6	87.1	90.2	88.4	82.1	72.7	63.6	53.6	71.6
	MEAN DAILY MAXIMUM	68	50.6	53.8	62.0	72.2	79.2	86.1	89.2	87.5	81.5	72.0	62.5	53.3	70.8
	HIGHEST DAILY MAXIMUM	71	80	84	92	95	97	105	105	105	104	98	88	81	105
	YEAR OF OCCURRENCE		2002	1977	1945	1980	1953	2012	2012	2007	1954	1954	1950	2007	JUL 2012
	MEAN OF EXTREME MAXS.	68	71.0	73.5	81.0	87.5	90.5	96.0	96.9	95.6	92.0	85.6	78.5	72.3	85.0
	NORMAL DAILY MINIMUM	30	31.0	33.8	39.9	48.0	56.5	65.8	69.9	68.6	61.7	49.8	40.8	33.3	49.9
	MEAN DAILY MINIMUM	68	30.0	31.9	38.6	47.1	55.9	63.9	68.4	67.3	60.8	48.6	39.1	32.5	48.7
	LOWEST DAILY MINIMUM	71	-9	0	11	23	31	38	48	46	37	19	11	4	-9
	YEAR OF OCCURRENCE		1985	1996	1980	1985	1977	1977	1975	1965	1983	1962	1970	1983	JAN 1985
	MEAN OF EXTREME MINS.	68	12.2	15.9	22.5	30.7	40.9	51.5	58.7	57.3	46.5	31.9	22.9	16.0	33.9
	NORMAL DRY BULB	30	41.0	44.5	51.6	60.2	68.0	76.4	80.0	78.5	71.9	61.2	52.2	43.5	60.8
	MEAN DRY BULB	68	40.3	42.9	50.3	59.7	67.6	75.1	78.8	77.5	71.2	60.3	50.8	42.9	59.8
	MEAN WET BULB	32	33.5	35.2	42.0	50.3	59.5	67.1	70.6	69.7	64.0	53.8	44.2	37.4	52.3
	MEAN DEW POINT	32	31.1	33.0	39.3	47.9	57.8	66.0	69.8	68.8	63.0	52.3	42.2	34.6	50.5
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.4	2.3	10.6	16.9	12.5	3.7	0.3	0.0	0.0	46.7
	MAXIMUM <= 32	30	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.9
	MINIMUM <= 32	30	17.2	12.9	7.0	1.1	0.0	0.0	0.0	0.0	0.0	0.7	5.9	15.9	60.7
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	
<b>H/C</b>	NORMAL HEATING DEG. DAYS	30	746	575	424	193	54	4	0	1	20	168	392	670	3247
	NORMAL COOLING DEG. DAYS	30	0	1	11	49	148	347	466	419	227	52	8	2	1730
<b>RH</b>	NORMAL (PERCENT)	30	68	65	63	63	72	74	76	77	78	75	70	70	71
	HOURLY 01 LST	30	74	72	71	74	84	87	88	89	89	87	80	76	81
	HOURLY 07 LST	30	80	79	80	81	86	87	89	92	92	90	85	81	85
	HOURLY 13 LST	30	56	53	50	46	54	56	57	59	59	53	53	56	54
	HOURLY 19 LST	30	65	60	56	54	66	67	70	73	77	77	69	67	67
<b>S</b>	PERCENT POSSIBLE SUNSHINE	42	52	56	60	63	59	60	60	58	58	60	57	53	58
<b>W/O</b>	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	52	3.3	2.5	2.0	1.4	1.7	1.3	2.2	2.5	2.6	2.5	2.9	3.4	28.3
	THUNDERSTORMS	68	0.5	0.8	2.2	3.5	5.9	7.4	10.4	7.5	3.0	1.2	0.8	0.4	43.6
<b>CLOUDINESS</b>	MEAN: SUNRISE-SUNSET (OKTAS)	47	5.0	4.7	4.7	4.4	4.7	4.6	4.8	4.7	4.7	3.9	4.2	4.6	4.6
	MIDNIGHT-MIDNIGHT (OKTAS)	32	4.7	4.4	4.3	4.1	4.6	4.4	4.7	4.6	4.2	3.7	4.0	4.3	4.3
	MEAN NO. DAYS WITH: CLEAR	48	9.0	8.7	9.4	9.6	8.2	7.6	7.2	7.3	9.5	12.8	11.3	10.0	110.6
	PARTLY CLOUDY	48	6.7	6.1	7.3	9.1	10.0	11.8	12.2	12.3	9.1	7.1	7.3	7.0	106.0
	CLOUDY	48	15.2	13.5	14.3	11.3	12.8	10.7	11.6	11.3	11.4	11.1	11.4	14.0	148.6
<b>PR</b>	MEAN STATION PRESSURE(IN)	32	29.62	29.62	29.59	29.54	29.55	29.54	29.55	29.57	29.60	29.62	29.66	29.64	29.59
	MEAN SEA-LEVEL PRES. (IN)	32	30.13	30.10	30.07	30.00	30.02	30.00	30.01	30.03	30.06	30.09	30.14	30.14	30.07
<b>WINDS</b>	MEAN SPEED (MPH)	32	7.0	7.3	7.8	7.9	7.0	6.4	6.1	5.6	5.9	5.6	5.9	6.2	6.6
	PREVAIL.DIR.(TENS OF DEGS)	46	23	23	23	23	24	23	24	23	04	03	23	23	24
	MAXIMUM 2-MINUTE: SPEED (MPH)	19	60	45	46	47	41	36	39	36	48	26	38	40	60
	DIR. (TENS OF DEGS)		23	23	24	22	23	22	23	24	20	05	22	22	23
	YEAR OF OCCURRENCE		2014	1997	1999	2013	2002	2015	2008	2001	2004	2015	2006	2000	JAN 2014
	MAXIMUM 3-SECOND SPEED (MPH)	19	86	64	61	59	52	51	53	58	79	38	45	51	86
	DIR. (TENS OF DEGS)		22	23	23	22	22	22	22	32	18	24	22	24	22
YEAR OF OCCURRENCE		2014	1997	1999	2013	2002	2015	2007	2014	2004	2010	2006	2009	JAN 2014	
<b>PRECIPITATION</b>	NORMAL (IN)	30	3.50	3.23	4.11	2.92	3.27	3.52	4.73	4.26	4.36	3.25	3.12	3.07	43.34
	MAXIMUM MONTHLY (IN)	71	7.52	6.42	7.78	6.10	7.67	10.45	10.27	12.18	21.79	9.35	9.03	6.65	21.79
	YEAR OF OCCURRENCE		1954	1989	1983	1978	1974	2006	1991	1986	1999	2002	2006	1983	SEP 1999
	MINIMUM MONTHLY (IN)	71	0.87	0.69	1.03	0.23	0.58	0.33	0.80	0.81	0.23	0.44	0.48	0.25	0.23
	YEAR OF OCCURRENCE		1981	1991	1985	1976	1999	1993	1953	1950	1985	2000	2007	1965	SEP 1985
	MAXIMUM IN 24 HOURS (IN)	71	3.11	3.22	3.70	4.04	4.40	5.65	4.27	5.20	5.41	5.78	4.70	3.18	5.78
	YEAR OF OCCURRENCE		1984	1973	1983	1978	1957	2006	1997	5020	1999	2002	1963	1958	OCT 2002
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	9.8	9.4	9.8	9.3	9.9	10.6	11.9	10.5	8.0	7.3	8.2	9.4	114.1
PRECIPITATION >= 1.00	30	1.0	0.8	0.9	0.6	0.5	0.7	1.1	1.1	1.4	1.0	0.7	0.6	10.4	
<b>SNOWFALL</b>	NORMAL (IN)	30	2.9	1.9	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	6.1
	MAXIMUM MONTHLY (IN)	71	25.8	17.2	14.0	1.8	T	T	T	0.0	0.0	0.0	2.6	10.6	25.8
	YEAR OF OCCURRENCE		2000	1979	1960	1983	2006	1996	1993				1975	1958	JAN 2000
	MAXIMUM IN 24 HOURS (IN)	71	17.9	10.4	9.3	1.8	T	T	T	0.0	0.0	0.0	2.6	9.1	17.9
	YEAR OF OCCURRENCE		2000	1979	1969	1983	1995	1996	1993				1975	1958	JAN 2000
	MAXIMUM SNOW DEPTH (IN)	67	20	10	11	0	0	0	0	0	0	0	2	9	20
	YEAR OF OCCURRENCE		2000	1979	1980								2000	1958	JAN 2000
	NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	0.8	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.6

**PRECIPITATION (inches) 2015 RALEIGH/DURHAM (KRDU)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1986	1.88	1.65	3.06	1.01	2.98	1.92	4.32	12.18	0.95	1.28	2.77	2.95	36.95
1987	6.53	5.52	2.88	4.68	1.19	2.11	1.78	5.80	5.48	1.71	1.39	3.02	42.09
1988	3.15	2.42	1.76	3.56	2.85	2.88	2.69	3.40	4.90	5.67	3.34	1.04	37.66
1989	1.35	6.42	5.40	4.91	3.88	7.30	5.46	5.08	3.96	3.44	3.94	3.01	54.15
1990	3.07	3.82	5.02	2.19	6.97	1.03	2.22	2.65	0.30	5.69	1.51	3.08	37.55
1991	4.12	0.69	4.59	1.04	2.89	2.05	10.27	1.87	3.16	1.40	0.73	2.65	35.46
1992	3.80	2.23	2.95	1.93	2.60	5.12	3.45	7.63	2.22	3.79	5.02	2.44	43.18
1993	4.50	2.22	6.13	4.84	3.32	0.33	2.11	1.77	3.50	2.95	2.66	3.72	38.05
1994	3.55	2.97	5.91	0.86	2.85	2.20	4.67	4.20	1.99	4.62	1.32	1.27	36.41
1995	4.50	4.52	2.49	1.32	3.91	7.75	3.29	2.70	2.46	9.10	4.67	1.88	48.59
1996	4.24	2.94	3.39	3.98	3.26	3.28	6.98	3.72	16.65	3.48	4.33	2.89	59.14
1997	3.13	2.83	3.41	4.75	2.21	3.83	6.51	1.01	3.07	3.26	4.05	2.75	40.81
1998	7.49	5.79	7.36	3.12	3.79	3.45	4.84	4.66	3.55	2.79	2.40	3.44	52.68
1999	5.77	1.96	3.69	3.53	0.58	1.16	3.00	3.20	21.79	2.45	1.20	2.31	50.64
2000	6.27	2.20	1.76	4.66	1.23	2.50	6.19	6.64	3.82	T	2.56	1.51	39.34
2001	1.30	2.34	7.11	1.72	3.53	4.54	4.13	4.88	0.86	1.86	0.50	2.01	34.78
2002	5.97	1.27	4.18	1.13	1.13	2.75	4.76	4.71	3.49	9.35	3.56	5.04	47.34
2003	1.84	4.64	5.23	4.47	4.28	4.16	4.40	8.57	4.47	2.62	1.81	3.52	50.01
2004	1.23	3.32	3.31	1.72	3.44	4.22	8.16	9.26	4.49	2.51	3.89	1.48	47.03
2005	2.64	2.29	3.54	3.13	2.07	1.50	7.64	3.90	0.82	2.06	3.72	4.24	37.55
2006	2.07	1.65	1.25	4.93	1.58	10.45	3.31	4.42	8.53	3.47	9.03	3.00	53.69
2007	3.12	1.74	3.52	3.88	1.43	4.46	4.94	0.90	2.22	4.66	0.48	4.45	35.80
2008	1.26	3.16	5.53	3.92	3.12	4.08	5.96	5.92	9.24	1.17	4.05	3.06	50.47
2009	2.53	1.65	6.83	1.69	4.13	2.34	2.16	1.65	3.35	1.10	6.91	6.09	40.43
2010	3.89	2.43	3.30	1.47	5.00	2.11	2.89	3.04	6.66	2.31	1.45	2.39	36.94
2011	1.37	2.27	3.52	2.66	4.04	1.16	5.49	8.77	5.54	3.51	3.32	2.05	43.70
2012	1.96	1.94	5.36	2.63	3.97	3.10	4.64	4.03	7.83	1.83	0.56	2.94	40.79
2013	3.10	4.08	2.95	4.38	4.52	10.09	3.48	4.88	2.91	1.41	2.99	5.91	50.70
2014	1.96	3.00	5.06	5.23	4.02	3.31	8.96	6.87	5.91	2.18	3.78	4.97	55.25
2015	3.35	2.91	3.28	5.26	3.04	6.35	5.01	4.82	4.81	5.06	7.14	6.07	57.10
POR= 68 YRS	3.43	3.27	3.86	2.97	3.58	3.67	4.64	4.49	3.97	2.97	3.08	3.20	43.13

WBAN : 13722

**AVERAGE TEMPERATURE (°F) 2015 RALEIGH/DURHAM (KRDU)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1986	38.5	44.5	51.7	61.2	67.4	78.4	81.7	75.6	72.3	63.0	52.9	42.6	60.8
1987	38.3	40.4	49.2	56.9	69.3	76.3	81.2	79.2	73.0	54.6	52.8	44.5	59.6
1988	34.7	41.9	50.6	57.8	66.0	72.4	79.0	80.3	70.3	54.4	52.0	42.4	58.5
1989	44.8	42.9	50.7	58.0	65.0	77.0	78.1	76.2	71.7	61.3	51.4	34.6	59.3
1990	48.0	51.0	54.9	60.3	67.4	75.2	80.0	78.0	72.2	64.1	54.2	48.1	62.8
1991	41.9	46.8	54.3	62.3	72.3	75.8	80.6	77.8	71.6	61.1	50.0	47.0	61.8
1992	43.4	46.2	50.5	59.2	63.2	72.0	80.4	74.1	71.5	58.1	51.9	42.5	59.4
1993	43.3	40.9	47.9	56.9	69.0	76.1	82.5	78.2	73.7	59.6	51.8	40.3	60.0
1994	36.9	44.2	52.2	63.6	64.2	77.0	79.6	76.0	69.1	59.3	54.0	47.9	60.3
1995	42.9	41.0	52.7	61.0	68.5	73.8	80.4	80.6	70.5	63.4	47.1	39.5	60.1
1996	38.3	42.5	45.3	58.4	67.7	76.4	78.6	75.2	70.3	61.0	45.7	45.8	58.8
1997	41.3	46.7	54.6	55.2	63.9	71.5	79.5	76.6	70.9	59.6	47.3	40.9	59.0
1998	44.7	46.1	50.2	58.8	69.2	77.3	79.5	77.8	74.6	61.1	52.0	46.6	61.5
1999	45.7	45.7	47.5	61.5	66.8	74.5	81.3	80.0	69.1	58.6	54.4	43.9	60.8
2000	38.4	45.8	53.4	57.6	70.0	77.2	77.0	76.1	69.4	60.2	48.0	35.5	59.1
2001	41.6	47.2	49.1	60.8	68.0	76.9	76.2	79.6	69.0	59.4	55.8	47.6	60.9
2002	42.7	44.6	52.6	63.3	67.0	77.9	80.6	78.4	73.1	61.6	49.1	40.5	61.0
2003	36.7	41.1	53.3	58.2	66.3	73.7	78.3	78.9	69.9	59.6	56.5	41.0	59.5
2004	38.0	41.4	52.6	60.4	73.3	76.2	79.2	75.3	71.3	62.6	53.6	43.5	60.6
2005	43.7	44.6	47.8	59.2	64.8	76.3	82.3	80.2	76.0	62.6	52.9	40.7	60.9
2006	47.8	43.5	51.5	62.7	65.6	74.6	79.8	80.5	69.7	58.8	53.0	47.8	61.3
2007	45.2	40.8	55.9	60.0	68.2	76.5	78.6	84.1	75.0	67.4	50.7	48.5	62.6
2008	41.6	47.8	53.3	60.4	66.5	80.7	79.0	78.5	72.6	59.3	49.4	47.4	61.4
2009	40.1	46.1	52.2	62.4	71.3	78.4	79.6	80.4	70.9	60.3	53.2	40.5	61.3
2010	37.9	37.6	52.0	63.0	71.9	81.5	82.3	81.2	77.3	63.4	51.7	34.9	61.2
2011	37.7	47.8	51.4	63.6	70.2	80.4	83.7	79.7	73.5	59.2	54.8	48.5	62.5
2012	45.7	46.9	60.4	59.8	72.0	74.7	83.6	78.2	71.1	60.9	47.6	49.3	62.5
2013	44.4	42.2	44.9	60.5	66.2	75.8	79.1	76.0	70.7	61.7	48.4	46.5	59.7
2014	36.7	43.4	46.0	60.2	69.8	77.3	78.4	75.9	72.2	63.0	47.0	44.7	59.6
2015	39.8	34.8	51.3	61.5	71.1	79.3	80.0	77.9	73.5	60.4	55.4	56.1	61.8
POR= 68 YRS	40.3	42.9	50.3	59.7	67.6	75.1	78.8	77.5	71.2	60.3	50.8	43.0	59.8

**HEATING DEGREE DAYS (base 65°F) 2015 RALEIGH/DURHAM (KRDU)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1987-88	0	0	1	319	362	631	932	665	444	228	62	22	3666
1988-89	0	0	8	336	386	695	619	623	459	257	102	0	3485
1989-90	0	3	30	167	404	934	518	390	357	186	37	0	3026
1990-91	0	0	18	124	323	520	709	501	354	153	18	0	2720
1991-92	0	0	24	156	451	562	659	537	446	226	114	3	3178
1992-93	0	0	29	224	390	691	666	670	524	244	15	0	3453
1993-94	0	0	19	198	405	758	863	576	394	113	101	0	3427
1994-95	0	0	8	190	326	527	679	665	380	165	36	0	2976
1995-96	0	0	18	123	532	787	819	646	601	227	72	2	3827
1996-97	0	0	9	142	569	590	729	510	326	300	97	45	3317
1997-98	0	0	14	223	524	742	624	525	475	207	21	7	3362
1998-99	0	0	7	146	383	573	593	533	536	160	36	2	2969
1999-00	2	0	29	216	314	646	818	548	365	235	24	0	3197
2000-01	0	0	40	181	511	910	718	492	490	200	36	0	3578
2001-02	0	0	50	211	287	532	687	566	393	151	91	0	2968
2002-03	0	0	0	186	479	754	871	663	365	216	55	5	3594
2003-04	0	0	16	178	274	739	830	677	387	190	26	0	3317
2004-05	0	0	7	120	354	660	662	564	527	193	77	3	3167
2005-06	0	0	0	154	368	748	524	595	432	135	76	0	3032
2006-07	0	0	19	217	357	524	603	670	312	207	59	0	2968
2007-08	0	0	3	73	419	511	718	500	359	169	37	0	2789
2008-09	0	0	8	205	459	539	765	524	408	130	29	0	3067
2009-10	0	0	8	176	349	752	835	763	392	124	26	0	3425
2010-11	0	0	0	109	393	925	840	481	424	117	27	0	3316
2011-12	0	0	15	198	319	506	589	516	183	192	10	0	2528
2012-13	0	0	10	167	517	483	634	635	615	175	84	0	3320
2013-	0	0	11	148	493	580							
2013-14	0	0	11	148	493	580	872	597	583	167	27	0	3478
2014-15	0	0	10	118	536	622	775	836	419	148	20	0	3484
2015-	0	0	2	159	290	295							

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**COOLING DEGREE DAYS (base 65°F) 2015 RALEIGH/DURHAM (KRDU)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1986	0	0	7	51	142	408	526	349	237	96	15	0	1831
1987	0	0	0	11	170	347	508	447	250	0	2	0	1735
1988	0	3	5	17	98	249	438	482	172	14	3	0	1481
1989	0	11	23	54	110	367	412	359	237	59	4	0	1636
1990	0	3	49	51	117	312	472	410	239	102	4	5	1764
1991	0	0	28	78	253	333	493	403	230	40	9	13	1880
1992	0	0	3	58	65	218	487	285	228	15	3	0	1362
1993	0	0	0	12	147	338	550	417	286	34	17	0	1801
1994	0	0	6	78	86	367	462	350	139	21	3	1	1513
1995	3	0	3	53	154	270	486	490	191	81	3	0	1734
1996	0	0	0	35	164	352	427	324	176	26	0	0	1504
1997	1	3	14	11	68	249	451	368	199	64	0	0	1428
1998	3	0	23	29	158	382	457	401	302	32	0	12	1799
1999	3	0	0	64	100	292	513	474	161	24	0	0	1631
2000	0	0	9	19	185	374	380	351	176	38	8	0	1540
2001	0	0	3	83	137	364	356	461	176	46	17	2	1645
2002	4	0	15	104	160	391	489	422	253	86	6	0	1930
2003	0	0	7	19	101	274	419	436	171	16	24	0	1467
2004	0	0	10	58	294	342	445	329	200	52	17	0	1747
2005	6	0	0	23	80	351	544	481	339	85	12	0	1921
2006	0	0	18	75	101	294	456	485	168	29	5	0	1631
2007	1	0	34	65	163	352	430	602	311	153	1	7	2119
2008	0	4	6	36	90	475	441	426	244	36	0	2	1760
2009	0	0	18	60	231	406	458	483	189	36	1	0	1882
2010	0	0	0	70	249	501	544	510	373	68	1	0	2316
2011	0	4	9	81	194	470	585	464	277	27	21	1	2133
2012	0	0	48	41	233	299	582	419	201	48	0	3	1874
2013	2	0	0	48	128	331	446	351	189	55	2	13	1565
2014	0	0	0	31	182	377	423	345	234	64	1	0	1657
2015	0	0	4	52	214	437	472	409	263	24	11	27	1913

**SNOWFALL (inches) 2015 RALEIGH/DURHAM (KRDU)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1987-88	0.0	0.0	0.0	0.0	0.6	0.0	7.3	T	0.0	0.0	0.0	0.0	7.9
1988-89	0.0	0.0	0.0	0.0	0.0	0.1	0.0	11.1	0.5	0.3	0.0	0.0	12.0
1989-90	0.0	0.0	0.0	0.0	0.0	2.7	0.0	T	T	0.0	0.0	0.0	2.7
1990-91	0.0	0.0	0.0	0.0	0.0	T	T	T	T	0.0	0.0	0.0	T
1991-92	0.0	0.0	0.0	0.0	T	0.0	T	T	0.0	0.0	0.0	0.0	T
1992-93	0.0	0.0	0.0	0.0	0.0	T	T	1.6	0.9	0.0	0.0	0.0	2.5
1993-94	T	0.0	0.0	0.0	0.0	3.1	T	1.1	0.2	0.0	0.0	0.0	4.4
1994-95	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.4	T	0.0	T	0.0	2.2
1995-96	0.0	0.0	0.0	0.0	T	T	5.6	8.1	0.9	0.0	T	T	14.6
1996-97							0.4	T	0.0	0.0	T	T	
1997-98	0.0	0.0	0.0	0.0	0.0	0.4	2.0	0.0	T	0.0	0.0	T	2.4
1998-99	0.0	0.0	0.0	0.0	0.0	T	T	T	T	0.0	0.0	0.0	T
1999-00	0.0	0.0	0.0	0.0	0.0	T	25.8	0.0	0.0	0.0	0.0	T	25.8
2000-01	0.0	0.0	0.0	0.0	2.2	0.1	T	0.3	T	T	T	0.0	2.6
2001-02	0.0	0.0	0.0	0.0	0.0	0.0	10.8	T	0.0	0.0	0.0	0.0	10.8
2002-03	0.0	0.0	0.0	0.0	0.0	2.3	3.5	1.6	T	0.0	0.0	0.0	7.4
2003-04	0.0	0.0	0.0	0.0	0.0	T	5.7	9.2	T	0.0	0.0	0.0	14.9
2004-05	0.0	0.0	0.0	0.0	0.0	T	0.7	T	0.2	0.0	0.0	0.0	0.9
2005-06	T	0.0	0.0	0.0	0.0	T	T	T	T	T	T	0.0	T
2006-07	0.0	0.0	0.0	0.0	T	0.0	1.0	0.6	0.0	T	0.0	0.0	1.6
2007-08	0.0	0.0	0.0	0.0	0.0	T	0.5	T	0.0	0.0	0.0	0.0	0.5
2008-09	0.0	0.0	0.0	0.0	0.4	0.0	3.5	T	3.2	0.0	0.0	0.0	7.1
2009-10	0.0	0.0	0.0	0.0	0.0	0.1	5.0	2.1	0.8	0.0	0.0	0.0	8.0
2010-11	0.0	0.0	0.0	0.0	0.0	8.3	0.3	0.4	T	0.0	0.0	0.0	9.0
2011-12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.9
2012-13	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.7	0.0	T	0.0	0.0	1.7
2013-	0.0	0.0	0.0	0.0	T	T							
2013-14	0.0	0.0	0.0	0.0	T	T	1.9	3.7	0.2	0.0	0.0	0.0	5.8
2014-15	0.0	0.0	0.0	0.0	T	T	T	7.9	0.0	0.0	0.0	0.0	7.9
2015-	0.0	0.0	0.0	0.0	0.0	0.0							
POR= 67 YRS	T	0.0	0.0	0.0	0.1	0.7	2.5	2.4	1.0	T	T	T	6.7

WBAN : 13722

**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: <a href="http://www.ncdc.noaa.gov/homr/">http://www.ncdc.noaa.gov/homr/</a> SNOWFALL STOPPED MONTH &amp; YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p><b>NOTE:</b> 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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# 2015

## Raleigh/Durham

### NORTH CAROLINA (KRDU)

The Raleigh-Durham Airport is located in the zone of transition between the Coastal Plain and the Piedmont Plateau. The surrounding terrain is rolling, with an average elevation of around 400 feet, the range over a 10-mile radius is roughly between 200 and 550 feet. Being centrally located between the mountains on the west and the coast on the south and east, the Raleigh-Durham area enjoys a favorable climate. The mountains form a partial barrier to cold air masses moving eastward from the interior of the nation. As a result, there are few days in the heart of the winter season when the temperature falls below 20 degrees. Tropical air is present over the eastern and central sections of North Carolina during much of the summer season, bringing warm temperatures and rather high humidities to the Raleigh-Durham area. Afternoon temperatures reach 90 degrees or higher on about one-fourth of the days in the middle of summer, but reach 100 degrees less than once per year. Even in the hottest weather, early morning temperatures almost always drop into the lower 70s.

Rainfall is well distributed throughout the year as a whole. July and August have the greatest amount of rainfall, and October and November the least. There are times in spring and summer when soil moisture is scanty. This usually results from too many days between rains rather than from a shortage of total rainfall, but occasionally the accumulated total during the growing season falls short of plant needs. Most summer rain is produced by thunderstorms, which may occasionally be accompanied by strong winds, intense rains, and hail. The Raleigh-Durham area is far enough from the coast so that the bad weather effects of coastal storms are reduced. While snow and sleet usually occur each year, excessive accumulations of snow are rare.

From September 1887 to December 1950, the office was located in the downtown areas of Raleigh. The various buildings occupied were within an area of three blocks. All thermometers were exposed on the roof, and this, plus the smoke over the city, had an effect on the temperature record of that period. Lowest temperatures at the city office were frequently from 2 to 5 degrees higher than those recorded in surrounding rural areas. Maximum temperatures in the city were generally a degree or two lower. These observations are supported by a period of simultaneous record from the Municipal Airport and the city office location between 1937 and 1940.

From September 1946 to May 1954, simultaneous records were kept at a surface location on the North Carolina State College campus in Raleigh, and at the Raleigh-Durham Airport 10 1/2 air miles to the northwest.

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

RALEIGH/DURHAM, NC

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
RALEIGH DURHAM AP	1948-08-01	1954-01-01	35° 52'	-78° 46'	443		AIRWAYS, COOP
DURHAM	1944-01-01	1944-05-01	35° 52'	-78° 46'			AIRWAYS
RALEIGH DURHAM AP	1969-01-01	1979-12-14	35° 52'	-78° 46'	434		COOP, WXSVC
RALEIGH DURHAM AP	1979-12-14	1981-12-31	35° 52'	-78° 46'	416		COOP, WXSVC
RALEIGH DURHAM INTL AP	1996-02-01	2009-03-27	35° 52'	-78° 47'	416		ASOS, COOP
RALEIGH DURHAM AP	1944-05-01	1948-08-01	35° 52'	-78° 46'			AIRWAYS
RALEIGH DURHAM INTL AP	2009-03-27	2011-06-22	35° 52'	-78° 46'	416		ASOS, COOP
RALEIGH DURHAM INTL AP	2011-06-22	Present	35° 53'	-78° 46'	416		ASOS, COOP
RALEIGH DURHAM AP	1954-01-01	1969-01-01	35° 52'	-78° 46'	434		AIRWAYS, COOP
RALEIGH DURHAM AP	1981-12-31	1996-02-01	35° 52'	-78° 46'	416		COOP

# Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
TEMP	1930-09-01	1968-08-22	DAILY	2400			
TEMP	1970-10-01	1991-08-19	DAILY	2400			
PRECIP	1996-02-01	2009-03-27	DAILY	2400	UNIV	RCRD	
PRECIP	1996-02-01	2009-03-27	HOURLY	2400	UNIV	RCRD	
TEMP	2009-03-27	2009-07-08	DAILY	2400	ATEMP		
WIND	2009-07-08	2011-06-22	HOURLY	UNKN	ANEMSONIC		
PRECIP	1968-08-22	1970-10-01	DAILY	2400	UNIV	RCRD	
PRECIP	1970-10-01	1991-08-19	DAILY	2400	UNIV	RCRD	
MAX/MINTEM	1991-08-19	1992-06-08	DAILY	2400	SOILX		
PRECIP	1991-08-19	1992-06-08	DAILY	2400	UNIV	RCRD	
PRECIP	1991-08-19	1992-06-08	HOURLY	2400			
PRECIP	2009-03-27	2009-07-08	DAILY	2400	PCPNI		
PRECIP	1992-06-08	1995-07-01	HOURLY	2400			
TEMP	1992-06-08	1995-07-01	DAILY	2400	HYGR		
MAX/MINTEM	1995-07-01	1996-02-01	DAILY	2400	PALMER		
PRECIP	2009-03-27	2009-07-08	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	2009-07-08	2011-06-22	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	2011-06-22	Present	DAILY	2400	PCPNX		
PRECIP	1970-10-01	1991-08-19	HOURLY	2400			
TEMP	1991-08-19	1992-06-08	DAILY	2400	HYGR		
WIND	1996-02-01	2009-03-27	HOURLY	UNKN	ANEMCUP		
TEMP	2009-07-08	2011-06-22	DAILY	2400	ATEMP		
TEMP	1968-08-22	1970-10-01	DAILY	2400			
MAX/MINTEM	1968-08-22	1970-10-01	DAILY	2400	SOILX		
MAX/MINTEM	1970-10-01	1991-08-19	DAILY	2400	SOILX		
PRECIP	1995-07-01	1996-02-01	DAILY	2400	UNIV	RCRD	
TEMP	2011-06-22	Present	DAILY	2400	ATEMP		
WIND	2011-06-22	Present	HOURLY	UNKN	ANEMSONIC		
PRECIP	1930-09-01	1968-08-22	DAILY	2400	UNIV	RCRD	
MAX/MINTEM	1968-08-22	1970-10-01	DAILY	2400	SOILX		
MAX/MINTEM	1970-10-01	1991-08-19	DAILY	2400	SOILX		
PRECIP	1992-06-08	1995-07-01	DAILY	2400	UNIV	RCRD	
MAX/MINTEM	1992-06-08	1995-07-01	DAILY	2400	PALMER		
MAX/MINTEM	1995-07-01	1996-02-01	DAILY	2400	PALMER		
PRECIP	1995-07-01	1996-02-01	HOURLY	2400	UNIV	RCRD	
MAX/MINTEM	1996-02-01	2009-03-27	DAILY	2400	PALMER		
TEMP	1996-02-01	2009-03-27	DAILY	2400	HYGR		
MAX/MINTEM	1992-06-08	1995-07-01	DAILY	2400	PALMER		
TEMP	1995-07-01	1996-02-01	DAILY	2400	HYGR		
WIND	2009-03-27	2009-07-08	HOURLY	UNKN	ANEMCUP		
MAX/MINTEM	1991-08-19	1992-06-08	DAILY	2400	SOILX		
MAX/MINTEM	1996-02-01	2009-03-27	DAILY	2400	PALMER		
PRECIP	2009-07-08	2011-06-22	DAILY	2400	PCPNI		
PRECIP	2011-06-22	Present	HOURLY	2400	AHTB	RCRD;HTD	

\* 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>

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