

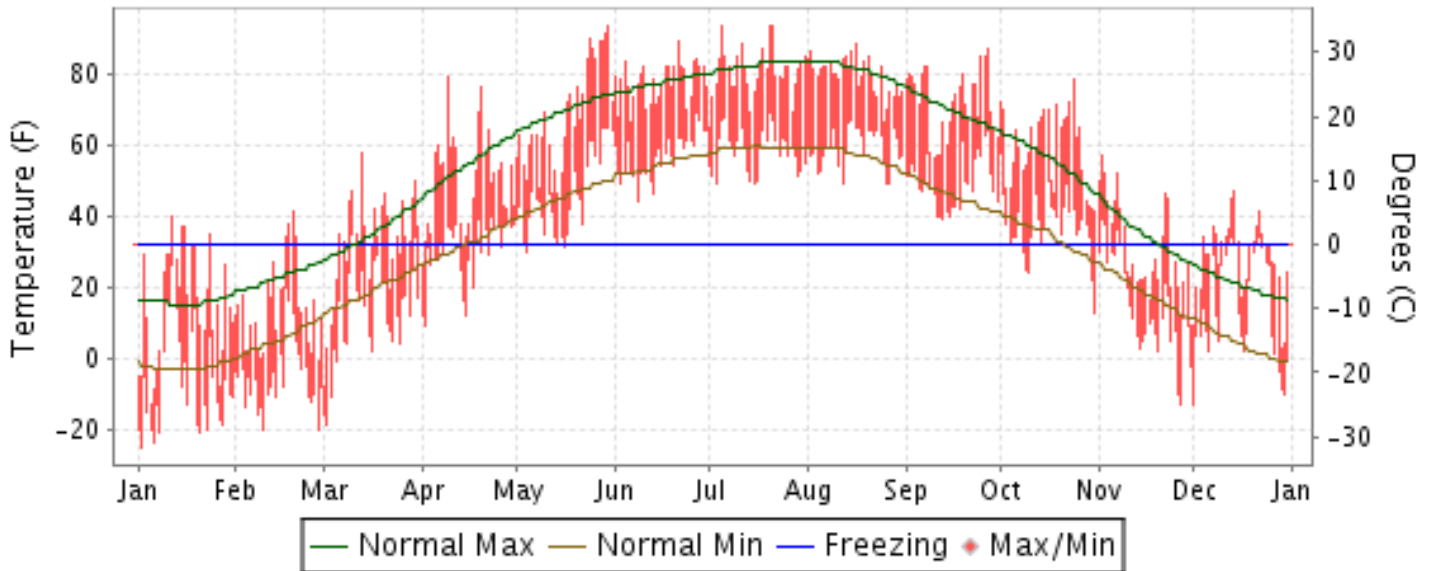


# 2014 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

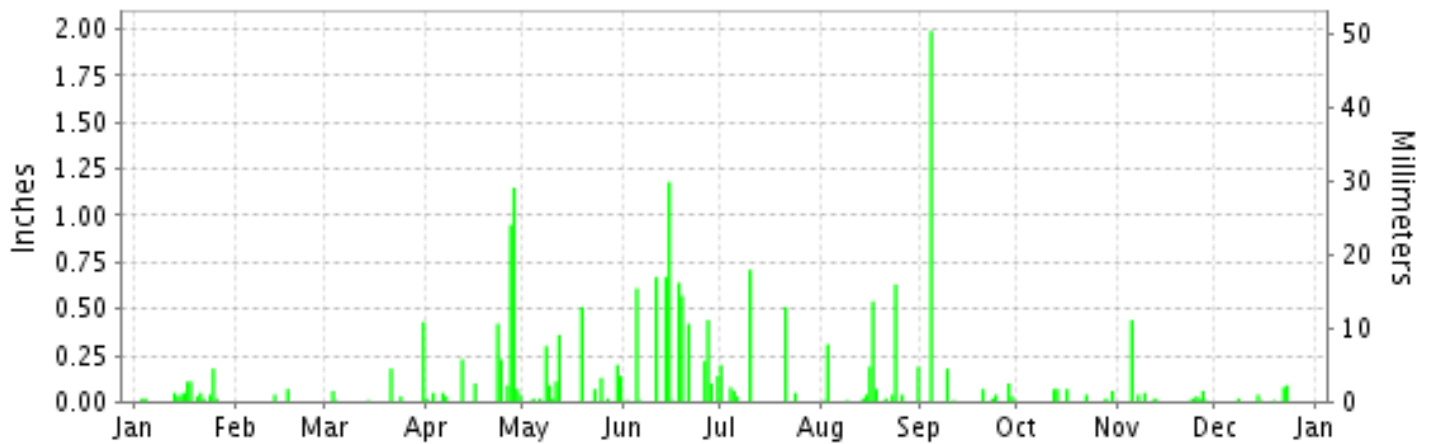
ISSN 0198-3830

## FARGO, NORTH DAKOTA (KFAR)

### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2014

## FARGO (KFAR)

LATITUDE:  
46° 55'N

LONGITUDE:  
96° 48'W

ELEVATION (FT):  
GRND: 900 BARO: 911

TIME ZONE:  
CENTRAL (UTC -6)

WBAN: 14914

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	15.7	14.4	32.2	50.5	68.2	77.5	80.5	79.4	72.2	59.5	30.9	28.1	50.8	
	HIGHEST DAILY MAXIMUM	40	41	58	79	93	89	93	88	87	78	57	47	93	
	DATE OF OCCURRENCE	12	19	13	09	30	21	21+	16	27	24	02	14	JUL 21+	
	MEAN DAILY MINIMUM	-6.8	-5.3	12.4	30.1	45.8	56.9	58.3	59.2	49.5	37.2	14.7	14.1	30.5	
	LOWEST DAILY MINIMUM	-25	-20	-19	9	30	44	49	49	39	13	-13	-13	-25	
	DATE OF OCCURRENCE	02	27+	02	02	04	08	15+	27+	13	31	27	01	JAN 02	
	AVERAGE DRY BULB	4.4	4.6	22.3	40.3	57.0	67.2	69.4	69.3	60.8	48.4	22.8	21.1	40.6	
	MEAN WET BULB	3.5	3.6	20.4	36.0	50.0	60.5	62.1	63.8	54.6	41.9	20.4	20.1	36.4	
	MEAN DEW POINT	-1.7	-2.2	14.4	29.6	43.3	55.6	56.9	60.3	49.8	34.6	14.4	16.1	30.9	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	3	0	3	0	0	0	0	0	0	6
	MAXIMUM <= 32°	27	24	12	2	0	0	0	0	0	0	18	18	101	
MINIMUM <= 32°	31	28	29	16	3	0	0	0	0	5	26	28	166		
MINIMUM <= 0°	22	22	4	0	0	0	0	0	0	0	3	5	56		
H/C	HEATING DEGREE DAYS	1869	1685	1316	733	323	30	20	12	160	507	1258	1352	9265	
	COOLING DEGREE DAYS	0	0	0	0	79	102	163	157	43	0	0	0	544	
RH	MEAN (PERCENT)	74	71	71	68	64	69	66	74	71	63	70	79	70	
	HOUR 00 LST	75	73	76	75	74	79	78	84	79	69	74	82	77	
	HOUR 06 LST	74	74	77	81	78	82	84	90	87	77	75	81	80	
	HOUR 12 LST	71	68	62	61	53	61	54	63	58	50	65	78	62	
	HOUR 18 LST	73	70	67	56	54	57	50	61	58	55	67	79	62	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	4	1	4	2	1	1	0	3	1	0	0	2	19	
	THUNDERSTORMS	0	0	0	0	0	1	1	0	0	0	0	0	2	
PR	MEAN STATION PRESS. (IN.)	29.00	29.09	29.06	28.98	28.97	28.85	28.99	28.99	29.03	28.95	29.03	29.14	29.01	
	MEAN SEA-LEVEL PRESS. (IN.)	30.04	30.13	30.08	29.97	29.94	29.81	29.94	29.95	29.99	29.92	30.04	30.16	30.00	
WINDS	RESULTANT SPEED (MPH)	3.6	4.5	2.2	3.0	1.8	2.4	2.7	1.6	2.6	3.8	4.1	2.4	1.4	
	RES. DIR. (TENS OF DEGS.)	29	28	35	04	34	21	29	12	17	26	29	19	28	
	MEAN SPEED (MPH)	12.7	11.6	13.0	12.8	11.9	11.2	10.3	7.7	11.0	12.4	13.3	12.3	11.7	
	PREVAIL.DIR.(TENS OF DEGS.)	34	34	16	35	34	22	34	15	16	15	32	16	16	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	46	38	44	43	40	39	36	25	36	38	37	36	46	
	DIR. (TENS OF DEGS.)	35	32	34	15	34	19	28	26	29	31	32	35	35	
	DATE OF OCCURRENCE	16	13	21	19	02	28	21	31	20	03	07	15	JAN 16	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	60	46	52	62	47	51	46	33	45	47	46	42	62	
DIR. (TENS OF DEGS.)	32	31	34	14	33	18	31	33	29	32	32	36	14		
DATE OF OCCURRENCE	16	13	21	19	02	28	21	29	20	03	07	15	APR 19		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.77	0.11	0.72	3.43	1.99	5.69	1.64	2.11	2.45	0.33	0.71	0.25	20.20	
	GREATEST 24-HOUR (IN.)	0.21	0.07	0.43	1.46	0.51	1.48	0.71	0.73	1.99	0.14	0.44	0.15	1.99	
	DATE OF OCCURRENCE	17-18	17	31	27-28	19	14-15	10	16-17	04	12-13	05	22-23	SEP 04	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	14	2	6	13	13	14	7	13	9	6	11	6	114		
PRECIPITATION 0.10	3	0	2	6	7	11	3	5	3	0	1	0	41		
PRECIPITATION 1.00	0	0	0	1	0	1	0	0	1	0	0	0	3		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	9.7	1.5	5.3	2.0	0.0	0.0	0.0	0.0	0.0	T	3.6	0.9	23.0	
	GREATEST 24-HOUR (IN.)	1.9	0.8	2.3	1.5	0.0	0.0	0.0	0.0	0.0	T	0.8	0.3	2.3	
	DATE OF OCCURRENCE	25	17	31	16						28+	24	23+	MAR 31	
	MAXIMUM SNOW DEPTH (IN.)	13	13	13	3	0	0	0	0	0	0	2	2	13	
	DATE OF OCCURRENCE	28+	18+	06+	01							30+	02+	MAR 06+	
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	2	0	2	1	0	0	0	0	0	0	0	0	5		

# NORMALS, MEANS, AND EXTREMES FARGO (KFAR)

**LATITUDE:** 46° 55'N      **LONGITUDE:** 96° 48'W      **ELEVATION (FT):** GRND: 900 BARO: 911      **TIME ZONE:** CENTRAL (UTC -6)      **WBAN: 14914**

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>TEMPERATURE °F</b>	NORMAL DAILY MAXIMUM	30	18.4	23.7	36.3	55.8	69.3	77.4	82.5	81.2	70.8	56.0	37.3	22.3	52.6
	MEAN DAILY MAXIMUM	73	16.3	21.4	34.6	53.6	68.0	76.5	82.6	81.1	70.2	57.0	36.8	21.8	51.7
	HIGHEST DAILY MAXIMUM	62	55	66	78	100	98	100	106	106	102	93	74	57	106
	YEAR OF OCCURRENCE		2012	1958	2012	1980	1964	1995	1988	1976	1959	1963	1990	1962	JUL 1988
	MEAN OF EXTREME MAXS.	73	38.0	41.1	55.0	78.4	88.2	91.8	94.9	94.7	89.7	79.3	59.4	41.9	71.0
	NORMAL DAILY MINIMUM	30	0.1	5.6	19.4	32.7	44.9	54.9	59.5	57.3	47.4	35.1	20.3	5.9	31.9
	MEAN DAILY MINIMUM	73	-1.5	3.2	17.0	32.1	43.8	54.0	59.1	57.1	46.6	35.3	19.9	5.2	31.0
	LOWEST DAILY MINIMUM	62	-36	-39	-23	-7	20	30	36	33	19	7	-24	-32	-39
	YEAR OF OCCURRENCE		2004	1996	1980	1975	2005	1969	1967	1982	1965	1976	1985	1967	FEB 1996
	MEAN OF EXTREME MINS.	73	-23.5	-19.9	-8.5	15.3	27.5	40.1	46.5	43.3	30.6	19.3	-1.3	-16.6	12.7
	NORMAL DRY BULB	30	9.3	14.6	27.8	44.2	57.1	66.2	71.0	69.3	59.1	45.5	28.8	14.1	42.3
	MEAN DRY BULB	73	7.4	12.4	25.8	42.9	55.9	65.4	70.9	69.1	58.4	46.2	28.4	13.6	41.4
	MEAN WET BULB	31	7.5	11.8	23.9	36.1	47.3	57.6	62.4	60.6	51.4	38.8	24.4	12.3	36.2
	MEAN DEW POINT	31	5.8	10.2	22.0	32.6	43.9	55.5	60.8	58.5	49.2	36.2	22.9	10.9	34.0
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.1	0.7	2.2	3.8	4.0	0.8	0.1	0.0	0.0	11.7
MAXIMUM <= 32	30	25.3	19.0	10.0	0.9	0.0	0.0	0.0	0.0	0.0	0.6	10.3	22.3	88.4	
MINIMUM <= 32	30	30.9	27.4	26.7	15.1	2.5	0.0	0.0	0.0	1.0	11.9	25.9	30.8	172.2	
MINIMUM <= 0	30	15.5	10.5	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	11.1	41.8	
<b>H/C</b>	NORMAL HEATING DEG. DAYS	30	1728	1410	1152	626	273	73	16	34	220	606	1086	1578	8802
	NORMAL COOLING DEG. DAYS	30	0	0	0	3	28	107	202	165	43	3	0	0	551
<b>RH</b>	NORMAL (PERCENT)	30	76	77	77	63	59	66	68	67	68	68	76	77	70
	HOURLY 00 LST	30	77	79	81	71	67	75	79	77	77	74	79	79	76
	HOURLY 06 LST	30	77	79	83	78	76	82	86	87	84	80	82	79	81
	HOURLY 12 LST	30	74	74	71	54	49	55	56	55	57	59	71	74	62
	HOURLY 18 LST	30	76	76	71	51	45	51	53	51	54	60	74	77	62
<b>S</b>	PERCENT POSSIBLE SUNSHINE	54	50	56	58	60	61	62	71	69	60	54	40	43	57
<b>W/O</b>	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	51	1.5	1.8	2.7	1.0	0.5	0.7	1.0	1.2	1.1	0.9	1.5	2.1	16.0
	THUNDERSTORMS	67	0.0	0.1	0.2	1.0	3.1	6.0	6.8	5.7	2.6	0.9	0.1	0.0	26.5
<b>CLOUDINESS</b>	MEAN: SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH: CLEAR	1	2.0	2.0	7.0		3.0	9.0							
	PARTLY CLOUDY			1.0	3.0		3.0	5.0							
	CLOUDY	1	1.0	4.0	12.0		7.0	5.0							
<b>PR</b>	MEAN STATION PRESSURE(IN)	31	29.09	29.11	29.07	28.99	28.95	28.92	28.97	29.00	29.00	29.01	29.03	29.08	29.02
	MEAN SEA-LEVEL PRES. (IN)	31	30.12	30.13	30.07	29.98	29.92	29.88	29.93	29.96	29.97	29.99	30.04	30.10	30.01
<b>WINDS</b>	MEAN SPEED (MPH)	31	11.4	11.4	12.0	12.3	12.2	10.5	9.3	9.6	10.5	11.5	11.5	11.3	11.1
	PREVAIL.DIR(TENS OF DEGS)	43	17	17	35	35	17	17	17	17	17	17	17	17	17
	MAXIMUM 2-MINUTE: SPEED (MPH)	19	49	51	49	49	61	48	74	51	40	49	47	46	74
	DIR. (TENS OF DEGS)		34	33	34	32	22	29	33	34	30	28	31	35	33
	YEAR OF OCCURRENCE		1996	1996	1999	2000	2011	2008	1999	2001	2005	2010	1999	2013	JUL 1999
	MAXIMUM 3-SECOND SPEED (MPH)	19	60	58	55	62	72	70	91	59	48	64	56	54	91
	DIR. (TENS OF DEGS)		32	28	16	14	22	26	34	30	36	28	30	35	34
YEAR OF OCCURRENCE		2014	2002	2012	2014	2011	2010	1999	2013	2012	2010	1999	2013	JUL 1999	
<b>PRECIPITATION</b>	NORMAL (IN)	30	0.70	0.61	1.30	1.36	2.81	3.90	2.79	2.56	2.57	2.15	1.00	0.83	22.58
	MAXIMUM MONTHLY (IN)	73	1.85	1.74	4.62	5.28	7.34	11.72	8.42	8.52	6.50	7.03	4.58	2.19	11.72
	YEAR OF OCCURRENCE		1989	1979	2009	1986	1998	2000	1952	1944	1999	1982	1977	1951	JUN 2000
	MINIMUM MONTHLY (IN)	73	0.09	0.03	0.03	0.01	0.46	0.58	0.42	0.18	0.12	0.05	0.02	0.04	0.01
	YEAR OF OCCURRENCE		2008	1954	1958	1988	1976	1972	1950	1984	2012	1986	1999	1958	APR 1988
	MAXIMUM IN 24 HOURS (IN)	73	1.19	1.22	1.16	1.91	4.56	4.64	5.10	4.72	3.97	3.22	1.99	0.87	5.10
	YEAR OF OCCURRENCE		1996	1946	1950	1963	2013	2000	1993	1943	1957	1982	1977	1960	JUL 1993
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	8.3	7.2	8.3	7.4	11.0	11.7	9.5	9.1	8.7	8.3	7.1	9.2	105.8
PRECIPITATION >= 1.00	30	0.0	0.0	0.0	0.2	0.7	0.9	0.7	0.5	0.7	0.4	0.0	0.0	4.1	
<b>SNOWFALL</b>	NORMAL (IN)	30	11.2	7.0	9.1	3.0	0.0	0.0	0.0	0.0	0.0	0.7	7.9	11.2	50.1
	MAXIMUM MONTHLY (IN)	73	31.5	19.5	28.1	16.9	1.0	T	T	T	0.6	8.1	26.4	33.5	33.5
	YEAR OF OCCURRENCE		1989	1979	2009	2008	1950	1994	1999	1994	1942	1951	1996	2008	DEC 2008
	MAXIMUM IN 24 HOURS (IN)	73	19.4	11.2	12.0	8.6	1.0	T	T	T	0.6	7.8	12.6	9.3	19.4
	YEAR OF OCCURRENCE		1989	1951	1997	1970	1950	1994	1999	1994	1942	1951	2010	1988	JAN 1989
	MAXIMUM SNOW DEPTH (IN)	56	30	24	32	12	1	0	0	0	0	5	17	19	32
	YEAR OF OCCURRENCE		1989	1994	1997	2013	2011					1951	1985	1985	MAR 1997
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	2.7	2.4	2.4	0.9	0.0	0.0	0.0	0.0	0.0	0.3	2.2	3.3	14.2	

**PRECIPITATION (inches) 2014 FARGO (KFAR)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1985	0.20	0.18	1.35	0.60	5.03	1.44	3.91	2.30	1.39	1.12	1.06	0.59	19.17
1986	0.85	0.27	0.19	5.28	1.00	3.98	4.78	1.72	3.67	0.05	1.43	0.29	23.51
1987	0.27	0.86	0.49	0.12	3.46	0.66	2.86	3.23	1.70	0.18	0.48	0.69	15.00
1988	1.62	0.22	1.02	0.01	1.82	1.24	0.46	2.14	3.22	0.49	1.18	1.11	14.53
1989	1.85	0.21	1.49	1.03	2.60	1.51	0.62	6.07	2.10	0.31	1.18	0.24	19.21
1990	0.13	0.58	1.54	1.78	1.52	6.05	0.78	0.99	1.75	1.22	0.02	0.77	17.13
1991	0.29	1.27	0.97	3.15	2.38	6.26	1.86	1.87	1.28	0.71	0.46	0.37	20.87
1992	0.89	0.51	1.05	0.89	2.32	6.47	0.83	2.35	2.55	0.26	1.73	0.56	20.41
1993	0.79	0.19	0.83	0.74	2.67	4.28	7.71	1.13	0.49	0.19	1.88	1.00	21.90
1994	0.67	0.64	0.97	2.56	0.82	2.53	5.76	2.85	2.06	3.15	0.89	0.20	23.10
1995	0.76	0.62	2.62	0.69	2.07	1.41	5.27	1.75	2.58	2.04	0.99	0.73	21.53
1996	1.82	0.94	0.41	0.21	3.00	1.33	1.36	2.11	3.18	2.41	.07	.69	17.53
1997	1.79	0.59	1.89	3.12	2.54	4.86	2.73	2.60	2.31	2.89	0.45	0.07	25.84
1998	0.81	1.51	0.97	0.60	7.34	6.62	2.74	1.93	2.44	4.73	1.75	0.31	31.75
1999	1.15	0.20	1.83	1.04	3.50	2.83	2.34	4.43	6.50	1.04	T	0.45	25.31
2000	0.33	0.99	1.77	1.33	2.69	11.72	2.44	3.07	3.64	1.96	4.13	0.69	34.76
2001	0.20	0.74	0.26	2.70	2.88	2.73	3.14	2.19	1.45	2.74	1.00	0.22	20.25
2002	0.21	0.12	1.06	1.26	3.87	4.76	5.65	3.73	1.73	1.44	0.15	0.83	24.81
2003	0.26	0.18	0.63	1.32	4.24	4.56	1.72	1.06	1.40	1.34	0.53	1.18	18.42
2004	0.73	0.72	1.58	0.16	6.22	1.07	4.21	2.01	4.69	3.54	0.05	1.01	25.99
2005	1.12	0.61	0.13	0.87	2.42	8.47	1.06	7.52	1.69	2.39	2.84	1.32	30.44
2006	0.37	0.46	1.22	1.28	1.99	1.34	2.23	2.21	3.91	0.96	0.12	1.06	17.15
2007	0.10	0.73	2.18	3.16	3.87	5.78	1.20	2.39	3.39	1.76	0.09	1.59	26.24
2008	0.09	0.67	0.98	2.33	1.89	6.06	1.78	4.55	5.08	4.46	1.13	1.80	30.82
2009	0.55	1.29	4.62	0.81	1.62	2.93	1.18	2.13	2.06	5.44	0.41	1.85	24.89
2010	1.57	0.86	1.41	1.49	2.69	4.26	4.23	2.76	5.82	1.91	0.73	1.75	29.48
2011	0.90	0.08	1.84	2.02	4.30	4.41	4.35	4.26	0.23	0.94	0.26	0.36	23.95
2012	0.58	0.95	0.78	1.10	1.51	2.50	2.88	0.92	0.12	2.22	0.59	0.37	14.52
2013	0.97	1.22	1.44	2.11	7.16	7.73	0.90	0.39	4.39	4.18	0.40	1.21	32.10
2014	0.77	0.11	0.72	3.43	1.99	5.69	1.64	2.11	2.45	0.33	0.71	0.25	20.20
POR= 73 YRS	0.64	0.54	1.08	1.72	2.63	3.53	2.96	2.69	2.14	1.69	0.83	0.69	21.14

WBAN : 14914

**AVERAGE TEMPERATURE (°F) 2014 FARGO (KFAR)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1985	5.1	10.9	32.9	46.6	60.2	60.0	69.0	64.5	53.9	44.6	15.4	3.9	38.9
1986	13.8	10.5	31.6	43.9	57.5	67.5	71.5	65.6	56.1	45.3	23.1	20.8	42.3
1987	18.2	27.5	31.4	51.5	61.7	69.1	74.0	66.8	59.6	42.6	33.4	20.6	46.4
1988	5.9	9.3	29.5	44.5	63.9	73.8	75.8	72.2	58.5	42.9	27.5	15.2	43.3
1989	11.4	1.7	20.1	42.2	58.2	64.1	75.9	70.8	58.5	45.8	24.0	4.3	39.8
1990	21.8	17.6	31.4	43.6	55.0	67.0	70.0	71.1	62.3	45.6	32.1	12.2	44.1
1991	6.4	20.5	30.4	48.0	61.5	70.1	70.2	72.7	58.8	42.0	22.0	18.8	43.5
1992	17.3	23.5	32.6	41.4	58.7	62.0	64.3	64.8	56.8	45.1	27.3	10.5	42.0
1993	7.5	9.8	25.6	43.3	56.7	63.1	67.0	69.2	54.7	43.9	26.6	16.0	40.3
1994	-3.9	6.3	30.5	43.7	59.9	68.2	67.6	66.5	61.9	50.4	34.0	20.7	42.2
1995	10.8	12.4	28.4	38.9	54.8	71.4	70.0	72.0	58.8	44.1	21.2	11.5	41.2
1996	-1.8	11.2	17.4	37.8	53.6	67.0	67.9	71.1	59.1	45.3	17.7	5.9	37.7
1997	1.8	12.4	20.1	37.8	53.0	69.0	69.3	67.9	61.9	47.0	23.2	23.5	40.6
1998	11.3	28.0	26.6	49.2	60.9	63.4	71.7	72.7	63.9	47.6	29.3	17.3	45.2
1999	6.3	22.5	31.2	45.1	58.0	66.4	71.5	68.0	55.4	44.3	37.1	22.9	44.1
2000	9.8	21.6	35.2	42.4	57.3	62.7	70.6	69.6	58.0	48.3	26.0	-.2	41.8
2001	14.3	3.9	23.0	44.4	58.5	65.9	72.6	70.5	59.4	44.4	39.7	20.1	43.1
2002	16.5	24.0	20.0	40.1	51.2	69.0	73.1	67.3	61.8	37.2	27.9	19.9	42.3
2003	9.3	8.2	24.7	45.3	55.7	65.5	70.4	72.6	58.5	48.9	24.9	19.9	42.0
2004	3.2	14.7	30.3	44.3	52.3	62.5	68.2	62.2	62.9	47.0	34.2	18.0	41.7
2005	5.9	17.4	28.1	49.1	54.4	68.2	71.3	68.3	63.2	48.3	31.3	17.2	43.6
2006	23.5	9.7	27.4	50.7	58.9	68.5	74.9	69.7	58.7	43.2	31.9	25.6	45.2
2007	13.1	6.5	31.6	42.9	60.4	69.8	74.0	67.2	60.6	50.0	31.2	10.3	43.1
2008	6.5	7.5	22.8	41.0	53.9	63.6	70.3	69.5	59.7	46.7	31.8	5.9	39.9
2009	1.7	11.6	24.1	42.0	53.8	63.6	66.5	66.0	65.1	40.4	38.5	9.7	40.3
2010	8.4	10.1	35.4	51.6	58.1	66.6	72.0	71.3	56.4	50.1	29.3	10.0	43.3
2011	3.2	11.2	20.5	42.4	54.6	66.8	74.6	70.7	59.9	52.6	33.8	25.3	43.0
2012	19.6	21.5	41.6	48.2	60.8	70.0	76.7	68.8	59.3	44.0	30.4	14.7	46.3
2013	10.8	12.7	17.3	33.8	57.6	67.5	71.7	70.9	64.4	44.8	28.2	4.0	40.3
2014	4.4	4.6	22.3	40.3	57.0	67.2	69.4	69.3	60.8	48.4	22.8	21.1	40.6
POR= 73 YRS	7.4	12.4	25.8	42.9	55.9	65.4	70.9	69.1	58.4	46.2	28.4	13.6	41.4

**HEATING DEGREE DAYS (base 65°F) 2014 FARGO (KFAR)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1985-86	13	72	329	625	1487	1895	1585	1527	1027	627	266	45	9498
1986-87	0	69	268	602	1251	1360	1447	1047	1036	415	163	39	7697
1987-88	15	59	177	688	940	1369	1832	1614	1092	609	131	8	8534
1988-89	3	25	207	677	1118	1537	1658	1771	1386	677	224	96	9379
1989-90	0	17	224	599	1224	1881	1332	1324	1034	666	314	58	8673
1990-91	8	18	173	594	982	1637	1813	1242	1066	505	211	6	8255
1991-92	3	3	234	708	1284	1425	1473	1198	998	709	247	137	8419
1992-93	66	84	252	613	1125	1686	1780	1542	1214	643	269	111	9385
1993-94	35	19	310	652	1144	1514	2137	1640	1062	637	211	18	9379
1994-95	19	58	146	446	925	1366	1674	1469	1131	777	316	42	8369
1995-96	10	0	241	641	1308	1654	2071	1557	1472	812	355	65	10186
1996-97	12	6	234	604	1412	1826	1952	1466	1382	810	368	4	10076
1997-98	48	43	126	560	1249	1281	1659	1031	1185	467	151	111	7911
1998-99	5	0	124	530	1064	1471	1814	1186	1042	588	234	66	8124
1999-00	4	27	285	635	831	1297	1704	1251	918	672	252	119	7995
2000-01	26	23	226	511	1166	2014	1567	1705	1296	617	215	81	9447
2001-02	15	26	203	631	751	1385	1496	1140	1386	743	453	41	8270
2002-03	10	41	188	854	1103	1391	1718	1584	1242	590	289	61	9071
2003-04	9	9	246	517	1193	1389	1907	1453	1068	614	386	110	8901
2004-05	55	113	142	551	919	1449	1826	1328	1137	478	332	18	8348
2005-06	17	24	112	515	1005	1475	1279	1545	1160	427	235	24	7818
2006-07	3	7	228	678	985	1216	1597	1633	1030	658	179	27	8241
2007-08	2	41	198	463	1008	1689	1807	1663	1304	714	342	89	9320
2008-09	7	19	193	563	991	1827	1955	1492	1262	685	353	127	9474
2009-10	31	60	73	756	789	1706	1748	1530	910	395	276	40	8314
2010-11	1	16	251	463	1065	1698	1907	1501	1372	669	318	48	9309
2011-12	0	1	193	423	929	1224	1399	1258	724	498	171	20	6840
2012-13	0	18	212	647	1032	1551	1673	1458	1470	931	250	62	9304
2013-14	17	17	91	619	1097	1882	1869	1685	1316	733	323	30	9679
2014-	20	12	160	507	1258	1352							

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**COOLING DEGREE DAYS (base 65°F) 2014 FARGO (KFAR)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1985	0	0	0	6	31	35	143	63	4	0	0	0	282
1986	0	0	0	0	41	126	208	92	10	0	0	0	477
1987	0	0	0	17	66	169	303	121	25	0	0	0	701
1988	0	0	0	0	102	280	346	252	22	0	0	0	1002
1989	0	0	0	0	19	76	345	201	34	11	0	0	686
1990	0	0	0	29	10	123	172	214	98	1	0	0	647
1991	0	0	0	2	107	166	171	250	54	0	0	0	750
1992	0	0	0	9	58	52	49	85	11	3	0	0	267
1993	0	0	0	0	19	61	107	155	9	4	0	0	355
1994	0	0	0	4	59	122	105	109	60	0	0	0	459
1995	0	0	0	0	5	243	175	227	62	3	0	0	715
1996	0	0	0	0	8	131	107	204	63	0	0	0	513
1997	0	0	0	0	3	131	186	136	38	9	0	0	503
1998	0	0	0	0	32	71	218	245	96	0	0	0	662
1999	0	0	0	0	23	117	214	127	4	0	0	0	485
2000	0	0	0	0	19	57	208	172	19	0	0	0	475
2001	0	0	0	9	20	112	257	202	44	0	0	0	644
2002	0	0	0	2	32	169	268	123	95	0	0	0	689
2003	0	0	0	7	7	81	183	252	58	25	0	0	613
2004	0	0	0	0	0	43	161	35	84	1	0	0	324
2005	0	0	0	8	11	122	219	133	64	6	0	0	563
2006	0	0	0	3	53	136	316	162	45	9	0	0	724
2007	0	0	0	1	42	181	290	116	76	7	0	0	713
2008	0	0	0	0	4	51	176	164	41	0	0	0	436
2009	0	0	0	0	8	90	85	95	83	0	0	0	361
2010	0	0	0	0	68	92	227	218	0	6	0	0	611
2011	0	0	0	0	5	108	303	183	49	46	0	0	694
2012	0	0	6	0	52	174	367	146	50	0	0	0	795
2013	0	0	0	0	29	146	233	210	81	0	0	0	699
2014	0	0	0	0	79	102	163	157	43	0	0	0	544

**SNOWFALL (inches) 2014 FARGO (KFAR)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1985-86	0.0	0.0	0.0	T	24.3	10.4	11.2	6.7	0.7	3.7	T	0.0	57.0
1986-87	0.0	0.0	0.0	T	5.3	3.8	2.8	10.4	1.2	T	0.0	0.0	23.5
1987-88	0.0	0.0	0.0	T	3.0	6.6	24.3	4.4	6.2	T	0.0	0.0	44.5
1988-89	0.0	0.0	0.0	T	11.6	14.9	31.5	2.3	12.4	0.9	T	0.0	73.6
1989-90	0.0	T	T	T	16.3	2.6	0.8	7.9	11.5	7.2	T	0.0	46.3
1990-91	0.0	0.0	0.0	1.3	0.2	12.4	4.0	15.3	10.9	4.2	T	T	48.3
1991-92	0.0	0.0	T	0.3	5.2	5.9	10.5	2.1	0.2	3.3	T	0.0	27.5
1992-93	0.0	0.0	T	1.8	16.4	9.2	16.7	3.3	6.4	T	0.0	0.0	53.8
1993-94	0.0	0.0	0.0	T	21.5	13.8	18.0	12.8	12.1	10.9	0.0	T	89.1
1994-95	0.0	T	0.0	0.0	4.0	3.0	10.8	9.5	19.0	4.0	0.0	0.0	50.3
1995-96	0.0	0.0	T	1.0	9.6	12.7	27.2	8.9	15.0	0.2	0.0	0.0	74.6
1996-97	0.0	0.0	0.0	T	26.4	20.4	28.6	8.0	26.2	7.4	T	0.0	117.0
1997-98	0.0	0.0	0.0	0.3	11.1	7.4	12.6	3.6	5.4	0.7	0.0	T	41.1
1998-99	0.0	0.0	0.0	0.0	12.3	4.5	19.7	2.1	10.0	T	0.0	0.0	48.6
1999-00	T	0.0	0.0	T	0.0	4.3	6.5	11.4	5.6	6.2	0.0	0.0	34.0
2000-01	0.0	0.0	0.0	T	15.3	13.4	2.7	11.6	1.5	8.0	0.0	0.0	52.5
2001-02	0.0	0.0	0.0	5.4	11.2	5.0	3.8	1.9	15.7	6.3	T	0.0	49.3
2002-03	0.0	0.0	T	1.9	1.8	10.9	4.4	3.1	7.7	3.6	0.0	0.0	33.4
2003-04	0.0	0.0	0.0	0.5	4.9	14.4	17.0	5.9	10.6	0.5	T	0.0	53.8
2004-05	0.0	0.0	0.0	T	0.5	7.5	11.7	7.4	1.5	T	0.2	0.0	28.8
2005-06	0.0	0.0	T	T	9.9	13.9	5.2	8.1	5.2	0.0	0.0	0.0	42.3
2006-07	0.0	0.0	0.0	2.2	0.2	5.4	2.9	10.9	9.4	7.8	0.0	0.0	38.8
2007-08	0.0	0.0	T	0.0	0.8	19.3	2.8	8.8	11.2	16.9	T	0.0	59.8
2008-09	0.0	0.0	0.0	1.4	0.9	33.5	7.3	8.1	28.1	0.2	0.0	0.0	79.5
2009-10	0.0	0.0	0.0	1.2	0.2	24.4	10.5	10.3	T	0.0	T	0.0	46.6
2010-11	0.0	0.0	0.0	1.0	17.6	26.6	14.0	7.8	16.7	4.7	0.1	0.0	88.5
2011-12	0.0	0.0	0.0	0.0	0.8	3.1	8.0	12.8	2.6	T	0.0	0.0	27.3
2012-13	0.0	0.0	0.0	3.6	4.8	5.1	9.2	14.4	14.6	16.7	0.0	0.0	68.4
2013-14	0.0	0.0	0.0	T	0.3	16.1	9.7	1.5	5.3	2.0	0.0	0.0	34.9
2014-	0.0	0.0	0.0	T	3.6	0.9							
POR= 73 YRS	T	T	T	0.7	6.0	8.5	9.3	6.4	7.9	3.5	0.1	T	42.4

WBAN : 14914

**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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# 2014 FARGO NORTH DAKOTA (KFAR)

Moorhead, Minnesota, and Fargo are twin cities in the Red River Valley of the north. The Red River of the north flows northward between the two cities and is a part of the Hudson Bay drainage area. The Red River is approximately 2 miles east of the airport at its nearest point and has no significant effect on the weather. In recent years, spring floods due to melting snow have been common. Summer floods caused by heavy rains are infrequent.

The surrounding terrain is flat and open. Northerly winds blowing up the valley occasionally causing low cloudiness and fog. However, this upslope cloudiness is very infrequent. Aside from this, there are no pronounced climatic differences due to geographical features in the immediate area.

The summers are generally comfortable with very few days of hot and humid weather. Nights, with few exceptions, are comfortably cool. The winter months are cold and dry with temperatures rising above freezing only on an average of six days each month, and nighttime lows dropping below zero approximately half of the time.

Precipitation is the most important climatic factor in the area. The Red River Valley lies in an area where lighter amounts fall to the west and heavier amounts to the east. Seventy-five percent of the precipitation occurs during the growing season (April to September) and is often accompanied by electrical storms and heavy falls in a short time. Winter precipitation is light, indicating that heavy snowfall is the exception rather than the rule. The first light snow in the fall occasionally falls in September, but usually very little, if any, occurs until October or November. The latest fall is generally in April.

With the flat terrain, surface friction has little effect on the wind in the area and this fact has led to the legendary Dakota blizzards. Strong winds with even light snowfall cause much drifting and blowing snow, reducing visibility to near zero. Fortunately, these conditions occur only several times during the winter months.

# Station History

FARGO, ND

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
FARGO HECTOR FIELD	1973-01-01	1987-09-29	46° 54'	-96° 48'	896		COOP, WXSVC
FARGO HECTOR AP	1934-06-01	1937-01-01	46° 54'	-96° 48'			AIRWAYS
FARGO HECTOR INTL AP	1995-11-01	1996-03-01	46° 55'	-96° 48'	900		ASOS, COOP, WXSVC
FARGO HECTOR AP	1937-01-01	1948-01-01	46° 54'	-96° 48'	896		AIRWAYS
FARGO HECTOR FIELD	1972-12-01	1973-01-01	46° 54'	-96° 48'	896		AIRWAYS, COOP
HECTOR	1930-03-01	1934-06-01	46° 54'	-96° 48'			AIRWAYS
FARGO HECTOR AP	1948-01-01	1972-12-01	46° 54'	-96° 48'	896		AIRWAYS, COOP
FARGO HECTOR FIELD	1987-09-29	1995-11-01	46° 54'	-96° 48'	900		COOP, WXSVC
FARGO HECTOR INTL AP	1996-07-01	Present	46° 55'	-96° 48'	900		AIRWAYS, ASOS, COOP
FARGO HECTOR INTL AP	1996-03-01	1996-07-01	46° 55'	-96° 48'	900		AIRWAYS, ASOS, COOP, WXSVC

# Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
TEMP	1995-07-01	1995-11-01	DAILY	2400	HYGR		
WIND	1995-11-01	2006-09-26	HOURLY	UNKN	ANEMCUP		
WIND	2006-09-26	Present	HOURLY	UNKN	ANEMSONIC		
PRECIP	1982-01-01	1987-09-29	HOURLY	2400			
TEMP	1982-01-01	1987-09-29	DAILY	2400			
TEMP	1995-11-01	2006-09-26	DAILY	2400	HYGR		
PRECIP	1995-11-01	2006-09-26	DAILY	2400	TB	RCRD	
PRECIP	1995-11-01	2006-09-26	HOURLY	2400	TB	RCRD	
TEMPATOBS	1995-11-01	1997-01-01	TWICE DAILY - AM/PM	UNKN	FRONTIER		
TEMP	2006-09-26	Present	DAILY	2400	HYGR		
PRECIP	2006-09-26	Present	HOURLY	2400	TB	RCRD	
PRECIP	1982-01-01	1987-09-29	DAILY	2400	UNIV	RCRD	
TEMPATOBS	1995-07-01	1995-11-01	TWICE DAILY - AM/PM	UNKN	FRONTIER		
PRECIP	1995-07-01	1995-11-01	HOURLY	2400	UNIV	RCRD	
TEMP	1930-03-01	1982-01-01	DAILY	2400			
TEMP	1987-09-29	1995-07-01	DAILY	2400	HYGR		
PRECIP	1995-07-01	1995-11-01	DAILY	2400	UNIV	RCRD	
PRECIP	1930-03-01	1982-01-01	DAILY	2400	UNIV	RCRD	
PRECIP	1987-09-29	1995-07-01	DAILY	2400	UNIV	RCRD	
PRECIP	2006-09-26	Present	DAILY	2400	TB	RCRD	
TEMPATOBS	1987-09-29	1995-07-01	TWICE DAILY - AM/PM	UNKN	FRONTIER		
PRECIP	1987-09-29	1995-07-01	HOURLY	2400			

\* 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/asos2implementation.htm>

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

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

Fax Number : (828) 271-4876

TDD : (828) 271-4010

Email : [ncdc.orders@noaa.gov](mailto:ncdc.orders@noaa.gov)

NOAA/National Climatic Data Center

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