

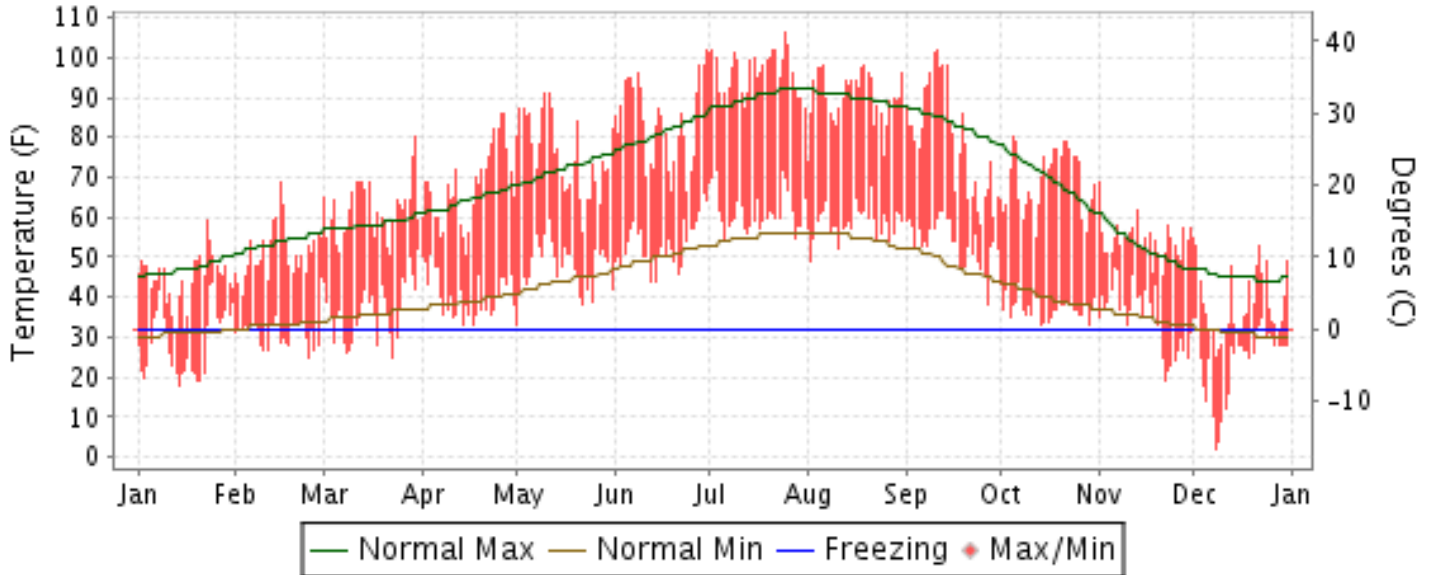


2013 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

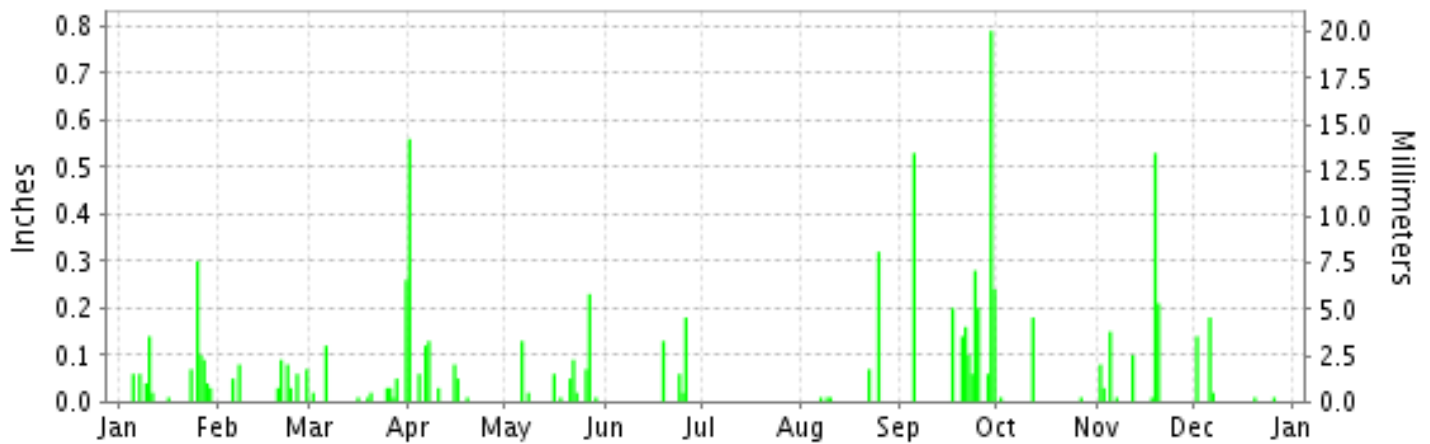
ISSN 0198-4152

MEDFORD, OREGON (KMFR)

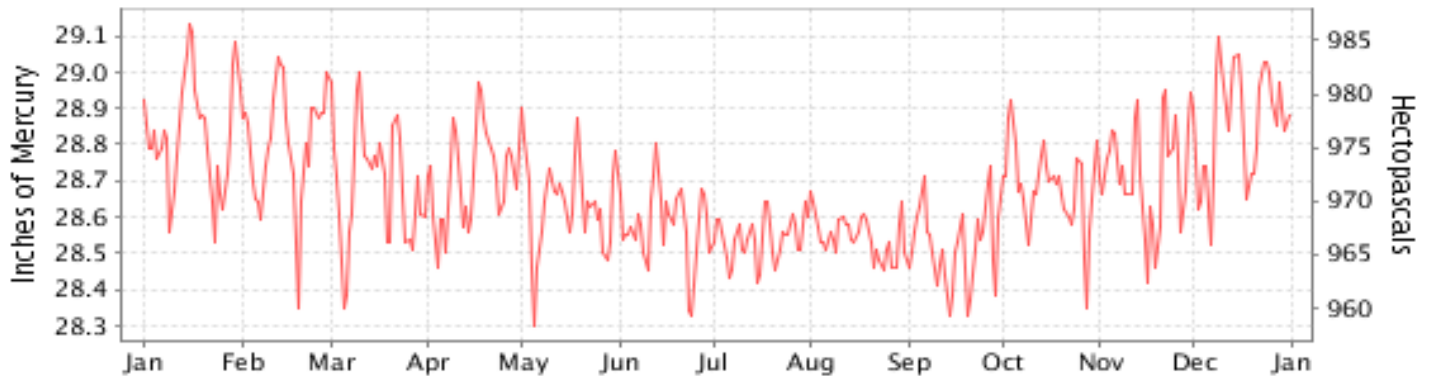
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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ENVIRONMENTAL SATELLITE, DATA
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NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2013

MEDFORD (KMFR)

LATITUDE: 42° 22'N LONGITUDE: 122° 52'W ELEVATION (FT): GRND: 1297 BARO: 1304 TIME ZONE: PACIFIC (UTC -8) WBAN: 24225

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	44.6	51.2	61.8	67.7	75.6	83.7	96.1	89.9	79.6	69.0	54.1	38.3	67.6	
	HIGHEST DAILY MAXIMUM	59	69	80	86	91	102	106	98	102	80	69	55	106	
	DATE OF OCCURRENCE	23	15	30	27+	11+	30	25	19+	11	05	01	01	JUL 25	
	MEAN DAILY MINIMUM	28.9	31.5	36.9	40.7	47.6	53.4	61.6	58.8	53.8	37.5	34.7	24.2	42.5	
	LOWEST DAILY MINIMUM	18	25	25	33	33	44	54	49	38	33	19	2	2	
	DATE OF OCCURRENCE	14	24	23	17+	01	14+	06	02	27	29+	22	08	DEC 08	
	AVERAGE DRY BULB	36.8	41.4	49.4	54.2	61.6	68.6	78.9	74.4	66.7	53.3	44.4	31.3	55.1	
	MEAN WET BULB	33.7	37.2	43.0	46.2	51.3	56.1	60.5	60.4	55.9	45.2	40.4	29.3	46.6	
	MEAN DEW POINT	30.9	32.8	36.2	37.6	41.7	46.1	47.1	51.0	48.3	38.3	36.8	26.5	39.4	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	2	10	28	18	8	0	0	0	0	66
MAXIMUM <= 32°	2	0	0	0	0	0	0	0	0	0	0	9	11		
MINIMUM <= 32°	18	17	9	0	0	0	0	0	0	0	10	27	81		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	867	656	476	320	131	35	0	0	84	358	609	1040	4576	
	COOLING DEGREE DAYS	0	0	0	2	33	146	437	297	142	0	0	0	1057	
RH	MEAN (PERCENT)	84	77	65	59	54	49	37	49	59	64	79	85	63	
	HOUR 04 LST	90	89	83	80	78	74	59	71	77	84	89	88	80	
	HOUR 10 LST	83	77	60	48	44	40	32	43	52	55	78	84	58	
	HOUR 16 LST	73	58	42	39	32	30	19	30	39	38	64	77	45	
	HOUR 22 LST	89	82	70	66	61	53	38	51	64	75	83	89	68	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	11	8	2	1	0	0	0	0	0	3	10	20	55	
	THUNDERSTORMS	0	0	0	0	0	0	0	2	1	0	0	0	3	
PR	MEAN STATION PRESS. (IN.)	28.83	28.80	28.69	28.72	28.64	28.58	28.54	28.55	28.52	28.68	28.72	28.87	28.68	
	MEAN SEA-LEVEL PRESS. (IN.)	30.27	30.25	30.12	30.14	30.04	29.97	29.92	29.93	29.91	30.10	30.17	30.33	30.10	
WINDS	RESULTANT SPEED (MPH)	0.1	0.8	1.4	2.4	2.7	3.6	3.2	2.7	2.2	0.6	0.8	0.5	1.7	
	RES. DIR. (TENS OF DEGS.)	29	32	31	33	32	32	33	32	32	31	35	34	33	
	MEAN SPEED (MPH)	1.1	1.8	2.9	4.0	4.7	4.8	4.3	4.1	3.7	1.6	1.7	1.3	3.0	
	PREVAIL.DIR.(TENS OF DEGS.)	31	31	31	33	30	32	34	30	31	31	36	36	32	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	31	23	32	25	28	24	22	22	31	21	17	21	32	
	DIR. (TENS OF DEGS.)	14	01	15	34	15	30	36	25	21	31	33	35	15	
	DATE OF OCCURRENCE	23	23	30	15	08	17	26	29	28	27	16	02	MAR 30	
	MAXIMUM 3-SECOND WIND:														
SPEED (MPH)	37	26	38	36	36	31	30	30	45	28	23	25	45		
DIR. (TENS OF DEGS.)	14	01	16	22	16	30	02	24	20	32	28	35	20		
DATE OF OCCURRENCE	23	23	30	04	08	18	12	29	28	27	02	02	SEP 28		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.96	0.49	0.56	1.04	0.69	0.39	0.00	0.42	2.76	0.20	1.12	0.36	8.99	
	GREATEST 24-HOUR (IN.)	0.33	0.10	0.26	0.56	0.23	0.18	0.00	0.32	0.98	0.18	0.63	0.20	0.98	
	DATE OF OCCURRENCE	25-26	20	31	01	27	26		25	29-30	12	19-20	06-07	SEP 29-30	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	12	8	10	8	10	4	0	5	11	3	8	5	84		
PRECIPITATION 0.10	3	0	2	3	2	2	0	1	9	1	4	2	29		
PRECIPITATION 1.00	0	0	0	0	0	0	0	0	0	0	0	0	0		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	0.5	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.9	
	GREATEST 24-HOUR (IN.)	0.3	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2	
	DATE OF OCCURRENCE	10	19										06	DEC 06	
	MAXIMUM SNOW DEPTH (IN.)	T	0	0	0	0	0	0	0	0	0	0	2	2	
	DATE OF OCCURRENCE	10											07	DEC 07	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	0	0	0	0	0	0	0	0	0	0	0	1	1		

NORMALS, MEANS, AND EXTREMES MEDFORD (KMFR)

LATITUDE: 42° 22'N LONGITUDE: 122° 52'W ELEVATION (FT): GRND: 1297 BARO: 1304 TIME ZONE: PACIFIC (UTC -8) WBAN: 24225

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	47.8	54.3	59.5	64.9	73.3	81.6	90.7	90.7	83.5	69.9	53.0	45.9	67.9	
	MEAN DAILY MAXIMUM	86	46.0	52.2	58.5	64.3	72.8	80.1	90.3	89.6	82.6	69.2	52.8	45.2	67.0	
	HIGHEST DAILY MAXIMUM	84	71	79	86	93	103	111	115	114	110	99	77	72	115	
	YEAR OF OCCURRENCE		1981	1992	1930	1987	1986	1992	1946	1981	1988	1980	1999	1962	76	JUL 1946
	MEAN OF EXTREME MAXS.	86	60.0	66.3	73.3	82.1	91.3	97.7	103.1	102.2	98.6	86.7	68.2	59.8	82.4	
	NORMAL DAILY MINIMUM	30	32.8	34.1	37.1	40.8	46.2	52.0	57.4	56.8	50.0	42.0	36.4	32.7	43.2	
	MEAN DAILY MINIMUM	86	30.6	31.8	35.3	38.4	44.1	49.8	55.5	54.6	47.9	40.4	34.4	31.6	41.2	
	LOWEST DAILY MINIMUM	84	-3	6	16	21	28	31	38	39	29	18	10	-6	-6	
	YEAR OF OCCURRENCE		1930	1950	1956	1936	1996	1952	1976	1962	1950	1971	1978	1972	1972	DEC 1972
	MEAN OF EXTREME MINS.	86	19.2	21.8	25.4	28.9	33.1	39.7	45.8	46.2	38.2	29.0	23.4	19.4	30.8	
	NORMAL DRY BULB	30	40.3	44.2	48.3	52.8	59.8	66.8	74.1	73.7	66.8	56.0	44.7	39.3	55.6	
	MEAN DRY BULB	86	38.3	42.0	46.9	51.3	58.5	65.0	72.9	72.1	65.2	54.8	43.6	38.4	54.1	
	MEAN WET BULB	30	36.2	37.9	40.9	43.8	48.2	52.9	56.9	56.2	51.7	46.0	40.4	35.2	45.5	
	MEAN DEW POINT	30	35.0	36.0	38.5	41.1	45.1	48.9	52.5	51.8	47.9	43.1	39.2	34.4	42.8	
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.1	2.5	6.3	17.7	17.5	8.8	1.1	0.0	0.0	54.0	
	MAXIMUM <= 32	30	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6	
	MINIMUM <= 32	30	14.0	10.4	6.2	1.7	0.2	0.0	0.0	0.0	0.0	1.4	7.6	13.7	55.2	
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		
H/C	NORMAL HEATING DEG. DAYS	30	766	582	518	367	198	54	6	4	59	291	609	797	4251	
	NORMAL COOLING DEG. DAYS	30	0	0	0	3	35	108	286	275	112	10	0	0	829	
RH	NORMAL (PERCENT)	30	84	78	72	66	61	54	49	50	56	69	84	88	68	
	HOURLY 04 LST	30	91	89	87	85	83	79	74	74	79	86	92	92	84	
	HOURLY 10 LST	30	88	83	73	64	56	49	45	47	53	68	87	90	67	
	HOURLY 16 LST	30	70	58	51	45	40	33	27	26	30	41	67	76	47	
	HOURLY 22 LST	30	87	82	76	70	65	59	51	52	60	74	88	90	71	
S	PERCENT POSSIBLE SUNSHINE															
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	50	12.3	5.7	1.8	0.5	0.2	0.2	0.0	0.1	0.4	3.5	11.1	12.7	48.5	
	THUNDERSTORMS	66	0.0	0.1	0.2	0.6	1.3	1.7	1.4	1.3	0.7	0.2	0.0	0.1	7.6	
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	68	6.6	6.1	5.8	5.4	4.6	3.7	1.7	2.0	2.7	4.4	6.3	6.8	4.7	
	MIDNIGHT-MIDNIGHT (OKTAS)	33	6.3	5.7	5.4	5.3	4.2	3.5	1.7	2.0	2.5	3.9	6.2	6.6	4.4	
	MEAN NO. DAYS WITH: CLEAR	68	2.6	3.7	5.2	5.8	9.3	12.9	22.6	21.3	17.5	10.4	3.3	2.1	116.7	
	PARTLY CLOUDY	68	4.9	5.8	6.6	8.3	9.0	8.2	5.4	5.6	6.4	8.2	6.0	4.0	78.4	
	CLOUDY	68	23.5	18.8	19.2	16.0	12.8	9.1	2.7	3.6	5.7	12.0	20.3	24.5	168.2	
PR	MEAN STATION PRESSURE(IN)	30	28.70	28.64	28.63	28.63	28.61	28.59	28.58	28.57	28.58	28.65	28.69	28.70	28.63	
	MEAN SEA-LEVEL PRES. (IN)	30	30.14	30.07	30.06	30.05	30.01	29.98	29.96	29.95	29.97	30.06	30.13	30.14	30.04	
WINDS	MEAN SPEED (MPH)	30	3.2	3.9	4.5	4.8	5.1	5.5	5.2	4.7	3.8	3.1	3.1	3.2	4.2	
	PREVAIL.DIR.(TENS OF DEGS)	43	36	36	32	31	31	31	30	31	30	31	36	36	30	
	MAXIMUM 2-MINUTE: SPEED (MPH)	16	41	41	43	35	37	40	30	43	47	33	37	40	47	
	DIR. (TENS OF DEGS)		13	14	13	25	14	10	21	14	14	14	15	14	14	
	YEAR OF OCCURRENCE		1998	2004	2001	2005	2000	2008	2007	1999	1998	2004	2011	2002	SEP 1998	
	MAXIMUM 3-SECOND SPEED (MPH)	16	54	51	53	40	43	51	43	54	59	45	46	49	59	
	DIR. (TENS OF DEGS)		13	13	13	25	14	15	24	14	14	15	15	14	14	
	YEAR OF OCCURRENCE		2010	2004	2009	2005	2000	2008	2000	1999	1998	2010	2011	2002	SEP 1998	
PRECIPITATION	NORMAL (IN)	30	2.43	2.01	1.71	1.38	1.31	0.62	0.28	0.40	0.57	1.13	3.02	3.49	18.35	
	MAXIMUM MONTHLY (IN)	84	6.67	5.67	5.54	3.59	4.58	3.49	1.63	2.83	4.22	9.16	8.62	12.72	12.72	
	YEAR OF OCCURRENCE		1936	1983	1957	2000	1945	1931	1966	1976	1977	1950	1942	1964	DEC 1964	
	MINIMUM MONTHLY (IN)	84	0.19	0.20	0.29	0.16	T	0.00	0.00	0.00	0.00	T	0.01	0.36	0.00	
	YEAR OF OCCURRENCE		1984	1988	1969	1949	1982	1951	1970	1981	1974	1987	1936	2013	AUG 1981	
	MAXIMUM IN 24 HOURS (IN)	84	3.17	2.96	1.61	1.54	1.67	1.96	1.07	1.15	3.09	2.92	2.99	3.75	3.75	
	YEAR OF OCCURRENCE		1943	1956	1972	2000	1956	1931	1966	1999	1977	1950	1953	1964	DEC 1964	
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	13.1	11.4	12.0	10.6	8.4	4.2	2.1	1.9	3.4	7.1	14.0	14.4	102.6	
	PRECIPITATION >= 1.00	30	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.4	0.5	1.6	
	SNOWFALL	NORMAL (IN)	30	1.3	0.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.5	4.1
MAXIMUM MONTHLY (IN)		76	22.6	11.6	8.1	4.2	0.1	T	0.0	T	0.0	1.3	11.4	12.2	22.6	
YEAR OF OCCURRENCE			1930	1956	1956	1953	1988	2012	2009	2011		1956	1955	1972	JAN 1930	
MAXIMUM IN 24 HOURS (IN)		76	9.3	5.2	7.9	4.2	0.1	T	T	T	0.0	1.3	8.5	4.2	9.3	
YEAR OF OCCURRENCE'			1971	1956	1956	1953	1988	2012	1994	1997		1956	1977	1964	JAN 1971	
MAXIMUM SNOW DEPTH (IN)		57	6	3	6	T	0	0	0	0	0	0	7	6	7	
YEAR OF OCCURRENCE			1971	2007	1956	2011							1977	1972	NOV 1977	
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0		30	0.5	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	1.6	

PRECIPITATION (inches) 2013 MEDFORD (KMFR)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	0.19	2.50	2.05	1.11	0.39	0.79	0.16	0.40	0.51	1.93	6.56	1.96	18.55
1985	0.23	1.58	1.22	0.39	1.00	0.37	T	0.02	1.53	1.50	2.02	0.83	10.69
1986	1.99	5.22	1.02	0.23	1.19	0.45	T	T	2.31	1.49	2.45	0.72	17.07
1987	2.89	2.24	1.34	0.45	0.95	0.12	1.34	T	0.00	T	1.68	3.77	14.78
1988	2.53	0.20	0.57	1.07	1.51	1.04	0.00	0.02	0.22	0.12	5.14	1.28	13.70
1989	2.33	0.78	3.94	2.42	1.01	0.16	T	0.41	1.94	0.71	0.71	0.68	15.09
1990	2.94	1.06	1.49	0.82	1.86	0.17	0.11	0.99	0.13	1.29	1.52	1.12	13.50
1991	1.55	1.73	2.42	1.07	1.84	0.68	1.10	0.22	T	0.39	2.42	1.08	14.50
1992	0.84	0.63	0.42	1.10	1.30	2.62	0.58	T	0.06	2.37	1.54	3.52	14.98
1993	2.65	1.37	1.25	1.83	2.63	1.23	0.66	1.21	T	0.66	0.68	2.43	16.60
1994	1.06	1.21	1.35	0.58	0.57	0.12	0.21	0.00	0.83	0.46	4.64	1.07	12.10
1995	3.76	0.40	2.63	2.49	0.54	1.54	1.17	T	0.12	0.20	1.26	7.66	21.77
1996	5.44	2.96	1.55	1.30	2.89	0.22	.30	.08	.49	2.20	4.04	9.94	31.41
1997	3.44	1.11	1.00	1.98	1.09	1.42	0.02	1.39	0.83	2.19	2.10	1.36	17.93
1998	4.78	3.27	2.73	2.25	4.26	0.67	0.00	0.00	0.05	1.81	7.67	1.23	28.72
1999	3.65	4.32	0.81	0.44	0.66	T	0.04	2.03	0.00	1.72	1.94	0.89	16.50
2000	5.00	2.76	1.52	3.59	0.75	0.43	0.58	0.07	0.38	1.51	1.24	0.98	18.81
2001	1.00	0.82	1.55	1.15	0.40	0.38	0.19	0.03	0.79	0.19	4.16	4.35	15.01
2002	1.59	1.65	1.33	1.49	0.53	0.03	0.08	0.00	0.53	0.16	3.42	7.19	18.00
2003	2.48	1.74	2.52	3.53	0.86	0.00	0.00	0.76	0.86	0.05	2.38	4.66	19.84
2004	2.98	3.35	1.27	0.75	1.27	0.18	T	0.52	0.04	2.90	1.70	4.13	19.09
2005	1.60	0.30	1.77	2.16	2.97	0.68	0.07	0.00	0.48	0.39	5.93	7.07	23.42
2006	5.12	1.94	2.19	1.26	1.51	0.81	T	T	0.06	0.38	3.78	4.75	21.80
2007	1.66	3.57	0.97	1.34	0.27	0.20	0.62	0.23	0.59	2.06	2.81	2.78	17.10
2008	3.77	0.54	1.85	0.69	1.20	0.09	T	0.04	0.01	0.40	2.29	2.93	13.81
2009	1.52	0.91	1.57	0.35	2.18	1.14	T	0.38	0.08	0.65	1.22	1.81	11.81
2010	2.77	1.03	2.10	2.92	1.53	1.00	0.00	0.86	0.79	2.06	1.94	4.31	21.31
2011	1.73	1.23	4.26	2.12	2.20	0.69	0.60	T	0.01	0.65	1.99	0.94	16.42
2012	2.76	2.19	3.72	1.92	1.10	2.36	0.07	0.00	0.00	1.96	5.13	5.66	26.87
2013	0.96	0.49	0.56	1.04	0.69	0.39	0.00	0.42	2.76	0.20	1.12	0.36	8.99
POR= 86 YRS	2.83	2.00	1.79	1.25	1.24	0.79	0.24	0.34	0.66	1.52	2.83	3.40	18.89

WBAN : 24225

AVERAGE TEMPERATURE (°F) 2013 MEDFORD (KMFR)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	38.8	43.0	48.9	49.3	58.3	63.3	73.8	71.8	65.2	51.5	44.5	36.3	53.7
1985	37.6	42.1	44.1	56.2	57.9	68.2	76.4	71.0	61.0	53.1	38.1	36.1	53.5
1986	44.0	46.4	51.6	51.4	59.1	70.4	70.5	77.1	60.8	55.6	44.7	37.8	55.8
1987	38.3	44.1	47.9	56.6	62.3	70.4	70.0	74.2	66.6	61.2	46.7	39.4	56.5
1988	39.7	44.8	47.2	53.8	56.6	65.5	75.5	73.6	67.4	61.9	45.2	38.3	55.8
1989	37.8	38.3	47.4	57.3	58.4	67.6	70.2	70.7	65.8	54.6	43.0	35.5	53.9
1990	39.9	41.1	49.0	57.5	57.0	66.4	76.3	73.5	69.5	53.5	42.2	31.7	54.8
1991	37.8	47.7	45.9	49.6	54.8	62.9	74.2	73.6	70.7	58.0	46.8	38.3	55.0
1992	40.9	48.4	51.9	56.5	66.3	69.7	74.2	75.7	67.1	57.3	45.4	37.6	57.6
1993	38.5	41.8	51.4	51.5	60.5	63.7	64.8	70.4	67.3	58.5	39.9	38.9	53.9
1994	40.5	41.6	49.1	54.2	61.2	65.4	76.5	72.3	69.3	53.9	38.8	39.3	55.2
1995	45.2	48.2	47.0	50.8	60.4	64.4	72.9	69.9	69.5	55.9	49.1	43.6	56.4
1996	40.7	47.3	48.9	53.2	56.8	65.6	76.7	74.5	64.0	55.0	46.6	41.1	55.9
1997	39.6	42.9	49.3	52.4	64.1	64.3	72.9	73.8	66.1	54.3	47.4	37.6	55.4
1998	43.2	44.4	47.2	51.6	54.2	65.9	76.6	75.5	68.8	52.9	45.7	35.5	55.1
1999	38.8	41.8	45.5	50.3	56.6	64.7	72.2	72.5	67.7	56.7	49.8	38.7	54.6
2000	39.6	46.1	45.5	55.0	59.0	68.7	71.9	73.2	65.8	54.9	40.2	38.4	54.9
2001	39.7	41.7	48.9	49.4	64.3	64.6	73.1	74.7	68.2	56.5	46.8	40.9	55.7
2002	39.5	45.0	45.7	53.5	58.5	68.0	76.6	72.0	67.1	53.5	45.7	41.5	55.6
2003	44.2	43.0	48.6	49.0	58.6	69.9	77.4	73.8	68.9	58.1	43.2	42.8	56.5
2004	41.5	44.9	52.6	55.4	59.7	68.5	76.4	75.6	64.9	55.7	42.4	40.7	56.5
2005	39.2	44.9	50.3	51.9	60.5	63.5	76.4	76.2	64.4	55.8	43.0	40.7	55.6
2006	40.8	43.7	44.2	53.2	62.3	69.5	77.2	73.3	67.4	55.2	45.4	40.1	56.0
2007	35.9	42.3	50.4	53.1	61.9	66.7	76.2	73.1	64.6	53.1	44.7	38.4	55.0
2008	37.0	42.8	44.4	49.5	60.9	65.9	75.1	74.3	69.7	56.3	46.3	36.6	54.9
2009	38.8	44.0	45.9	52.1	62.3	67.5	77.9	74.0	69.4	53.5	42.5	35.3	55.3
2010	45.8	45.8	47.6	49.6	55.1	64.0	75.5	73.1	66.6	57.4	43.8	42.6	55.6
2011	39.4	41.0	46.6	48.8	54.9	64.4	71.2	74.9	71.8	56.4	45.3	35.3	54.2
2012	39.0	43.3	45.2	54.1	60.6	64.1	73.8	76.4	71.0	57.3	47.4	39.2	56.0
2013	36.8	41.4	49.4	54.2	61.6	68.6	78.9	74.4	66.7	53.3	44.4	31.3	55.1
POR= 86 YRS	38.3	42.0	46.9	51.3	58.5	65.0	72.9	72.1	65.2	54.8	43.6	38.4	54.1

HEATING DEGREE DAYS (base 65°F) 2013 MEDFORD (KMFR)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	0	0	79	416	608	881	842	635	642	257	225	37	4622
1985-86	0	4	135	368	801	890	644	515	407	407	251	29	4451
1986-87	11	0	197	286	602	833	825	579	524	255	144	32	4288
1987-88	21	0	26	136	540	786	780	579	544	330	268	106	4116
1988-89	1	0	62	115	586	822	837	742	538	228	222	24	4177
1989-90	7	7	40	313	651	906	772	663	489	221	251	55	4375
1990-91	3	5	0	351	680	1022	837	477	588	456	313	82	4814
1991-92	1	1	11	246	541	820	738	476	399	253	48	43	3577
1992-93	0	1	35	233	583	844	816	643	411	397	150	90	4203
1993-94	42	15	65	216	747	804	752	649	488	317	138	70	4303
1994-95	0	0	25	339	782	788	605	465	551	422	170	104	4251
1995-96	0	6	23	276	473	656	746	508	492	349	254	45	3828
1996-97	3	0	89	327	544	731	780	614	479	370	103	59	4099
1997-98	3	0	49	325	519	841	668	572	546	402	326	26	4277
1998-99	0	0	35	366	574	908	804	643	596	432	276	85	4719
1999-00	10	18	34	251	449	808	781	543	595	291	200	42	4022
2000-01	14	0	57	308	738	818	779	644	493	464	112	68	4495
2001-02	1	0	29	273	538	742	783	553	590	338	213	42	4102
2002-03	0	12	54	351	571	723	639	612	499	474	225	18	4178
2003-04	0	0	36	214	648	680	721	575	376	286	166	37	3739
2004-05	0	1	60	297	669	746	792	558	450	387	163	94	4217
2005-06	0	0	63	278	654	746	744	589	637	352	128	19	4210
2006-07	0	0	56	298	582	762	897	631	445	355	139	42	4207
2007-08	0	0	96	361	601	819	858	637	631	461	186	70	4720
2008-09	0	9	16	273	555	873	806	582	588	388	142	15	4247
2009-10	0	1	34	350	665	914	589	531	535	455	306	81	4461
2010-11	6	16	43	242	630	686	787	666	566	478	306	61	4487
2011-12	0	1	12	257	588	912	800	624	609	336	167	94	4400
2012-13	0	0	1	241	519	791	867	656	476	320	131	35	4037
2013-	0	0	84	358	609	1040							

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COOLING DEGREE DAYS (base 65°F) 2013 MEDFORD (KMFR)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1984	0	0	0	0	20	64	280	219	90	5	0	0	678
1985	0	0	0	0	10	141	360	196	21	5	0	0	733
1986	0	0	0	5	74	198	189	383	80	0	0	0	929
1987	0	0	0	11	66	203	185	292	81	24	0	0	862
1988	0	0	0	0	12	128	334	276	143	27	0	0	920
1989	0	0	0	4	24	109	176	190	71	0	0	0	574
1990	0	0	0	2	13	99	358	275	142	1	0	0	890
1991	0	0	0	0	0	26	292	271	189	37	0	0	815
1992	0	0	0	5	96	189	292	338	102	2	0	0	1024
1993	0	0	0	0	17	58	42	188	140	20	0	0	465
1994	0	0	0	2	31	89	363	234	159	2	0	0	880
1995	0	0	0	0	34	95	253	163	164	0	0	0	709
1996	0	0	0	0	8	70	375	301	66	25	0	0	845
1997	0	0	0	0	82	43	254	283	87	0	0	0	749
1998	0	0	0	9	0	60	366	330	154	0	0	0	919
1999	0	0	0	0	24	84	240	257	121	1	0	0	727
2000	0	0	0	0	26	161	235	260	90	3	0	0	775
2001	0	0	0	4	95	64	260	309	132	19	0	0	883
2002	0	0	0	0	21	139	366	236	125	0	0	0	887
2003	0	0	0	0	34	176	392	281	160	8	0	0	1051
2004	0	0	0	8	11	151	361	335	64	15	0	0	945
2005	0	0	0	0	30	56	361	355	53	0	0	0	855
2006	0	0	0	4	51	160	383	261	133	0	0	0	992
2007	0	0	0	0	49	98	355	256	89	0	0	0	847
2008	0	0	0	0	65	104	317	303	164	8	0	0	961
2009	0	0	0	10	68	100	405	286	172	0	0	0	1041
2010	0	0	0	0	6	55	339	274	95	14	0	0	783
2011	0	0	0	0	0	49	198	314	222	0	0	0	783
2012	0	0	0	13	39	72	278	360	187	11	0	0	960
2013	0	0	0	2	33	146	437	297	142	0	0	0	1057

SNOWFALL (inches) 2013 MEDFORD (KMFR)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	0.0	0.0	0.0	T	0.1	0.9	1.8	0.4	2.0	T	0.0	0.0	5.2
1985-86	0.0	0.0	0.0	0.0	0.5	T	0.0	0.1	0.0	T	0.0	0.0	0.6
1986-87	0.0	0.0	0.0	0.0	0.0	T	T	T	T	T	0.0	0.0	T
1987-88	0.0	0.0	0.0	0.0	T	3.8	8.0	T	0.0	T	0.1	0.0	11.9
1988-89	0.0	0.0	0.0	0.0	T	3.4	3.6	1.5	2.2	0.0	0.0	0.0	10.7
1989-90	0.0	0.0	0.0	0.0	T	0.8	0.5	2.2	0.3	0.0	0.0	0.0	3.8
1990-91	0.0	0.0	0.0	0.0	0.0	2.6	T	0.0	0.6	T	T	T	3.2
1991-92	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	0.0	0.0	T
1992-93	T	0.0	0.0	0.0	0.0	1.0	1.2	1.9	0.0	0.0	0.0	0.0	4.1
1993-94	0.0	0.0	0.0	0.0	0.1	T	T	T	T	0.0	0.0	0.0	0.1
1994-95	T	0.0	0.0	0.0	1.1	0.1	0.4	T	T	T	0.0	0.0	1.6
1995-96	0.0	0.0	0.0	0.0	0.0	0.0	T	1.1	0.2	0.0	T	0.0	1.3
1996-97	T	0.0	0.0	0.0	0.0	T	T	T	T	0.0	0.0	0.0	T
1997-98	0.0	T	0.0	0.0	0.0	1.0							
1998-99						6.7							
1999-00													
2000-01													
2001-02													
2002-03													
2003-04													
2004-05													
2005-06					1.0	T	0.3	T	3.0	0.0	0.0	0.0	
2006-07	0.0	0.0	0.0	0.0	0.1	0.2	3.1	5.6	T	0.0	0.0	0.0	9.0
2007-08	0.0	0.0	0.0	0.0	T	3.8	6.2	T	0.0	T	0.0	0.0	10.0
2008-09	0.0	0.0	0.0	0.0	0.0	4.1	0.1	0.6	T	T	0.0	0.0	4.8
2009-10	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	T	T	0.0	0.0	0.5
2010-11	0.0	0.0	0.0	0.0	0.5	0.1	T	1.9	0.0	0.8	0.0	0.0	3.3
2011-12	0.0	0.0	0.0	0.0	T	T	0.1	2.3	0.2	0.0	0.0	T	2.6
2012-13	0.0	0.0	0.0	0.0	0.0	1.2	0.5	T	0.0	0.0	0.0	0.0	1.7
2013-	0.0	0.0	0.0	0.0	0.0	3.4							
POR= 85 YRS	T	T	0.0	T	0.4	1.3	2.6	1.1	0.6	0.2	T	T	6.2

WBAN : 24225

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: http://www.ncdc.noaa.gov/homr/ SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p>NOTE: 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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2013 MEDFORD OREGON (KMFR)

Medford is located in a mountain valley formed by the famous Rogue River and one of its tributaries, Bear Creek. The major portion of the valley ranges in elevation from 1,300 to 1,400 feet above sea level. Mountains surround the valley on all sides, to the east the Cascades, ranging up to 9,500 feet, to the south the Siskiyou, ranging up to 7,600 feet, and to the west and north, the Coast Range and Umpqua Divide, ranging up to 5,500 feet above sea level. The valley exits to the ocean 80 miles westward through the narrow canyon of the Rogue River.

Medford has a moderate climate of marked seasonal characteristics. Late fall, winter, and early spring months are damp, cloudy, and cool under the influence of marine air. Late spring, summer, and early fall are warm, dry, and sunny, due to the dry continental nature of the prevailing winds aloft that cross this area.

The rain shadow afforded by the Siskiyou and Coast Range results in a relatively light annual rainfall, most of which falls during the winter season. Summertime rainfall is brought by thunderstorm activity. Snowfall is quite heavy in the surrounding mountains during the winter, providing excellent skiing. The mountains provide irrigation water storage which is necessary for production of most commercial crops during the dry summer. Valley snowfall is light. Individual accumulations of snow seldom last more than 24 hours and present little hindrance to transportation on the valley floor.

Few extremes of temperature occur. High temperatures in the summer months average slightly below 90 degrees. High temperatures are always

accompanied by low humidity, and hot days give way to cool nights as cool air drains down the mountain slopes into the valley. The length of the growing season is 170 days, from late April to mid-October. The last date of 32 degrees in the spring normally occurs in mid-June and the first date of 32 degrees in the fall occurs in mid-September.

Valley winds are usually very light, prevailing from the north or northwest much of the year. Winds exceeding 10 mph during the winter months nearly always come from the southerly quadrant. Highest velocities are reached when a well developed storm off the northern California coast causes a foehn or chinook wind off the Siskiyou Mountains to the south, speeds to 50 mph are common, and gusts to 70 mph have been recorded occasionally. Summer thunderstorms produce gusty winds to 40 or 50 mph which may come from any direction.

Fog often fills the lower portion of the valley during the winter and early spring months, when rapid clearing of the sky after a storm allows nocturnal cooling of the entrapped, moist air to the saturation point. Duration of the fog is seldom more than three days. Geographical and meteorological conditions contribute to a smoke problem during the fall, winter and early spring months. Smoke, from local sources, occasionally reduces visibility to 1 to 3 miles under stable conditions.

Station History

MEDFORD, OR

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
MEDFORD MUNICIPAL AP	1927-01-01	1928-12-31	42° 19'	-122° 51'			WXSVC
MEDFORD JACKSON COUNTY AP	1968-11-05	1969-01-01	42° 22'	-122° 52'	1298		AIRWAYS, COOP
MEDFORD JACKSON COUNTY AP	1984-09-16	1996-02-05	42° 22'	-122° 52'	1300	.7 MI NW	COOP
MEDFORD MUNICIPAL AP	1948-07-01	1953-01-01	42° 22'	-122° 52'	1329		AIRWAYS, COOP
MEDFORD MUNICIPAL AP	1953-01-01	1968-11-05	42° 22'	-122° 52'	1298		AIRWAYS, COOP
MEDFORD ROGUE VALLEY INTL AP	1998-01-01	1998-11-04	42° 23'	-122° 52'	1300		ASOS, COOP
MEDFORD JACKSON COUNTY AP	1969-01-01	1981-12-31	42° 22'	-122° 52'	1298		COOP, WXSVC
MEDFORD JACKSON COUNTY AP	1996-02-05	1998-01-01	42° 22'	-122° 52'	1300	300 FT N	COOP
MEDFORD MUNICIPAL AP	1930-01-01	1948-07-01	42° 22'	-122° 52'		3 MI N	AIRWAYS
MEDFORD JACKSON COUNTY AP	1981-12-31	1984-09-16	42° 22'	-122° 52'	1298		COOP
MEDFORD ROGUE VALLEY INTL AP	1998-11-04	2010-06-24	42° 22'	-122° 52'	1297		ASOS, COOP
MEDFORD MUNICIPAL AP	1929-02-01	1930-01-01	42° 19'	-122° 52'			WXSVC
MEDFORD ROGUE VALLEY INTL AP	2010-06-24	Present	42° 22'	-122° 52'	1297		ASOS, COOP

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1982-01-01	1984-09-16	DAILY	2400			
PRECIP	1927-01-01	1928-12-31	DAILY	2400			
PRECIP	1982-01-01	1984-09-16	HOURLY	2400			
TEMP	1982-01-01	1984-09-16	DAILY	2400			
TEMP	1984-09-16	1996-05-17	DAILY	2400	HYGR		
PRECIP	1984-09-16	1996-05-17	HOURLY	2400			
TEMP	1996-05-17	2003-04-08	DAILY	2400	HYGR		
PRECIP	2003-04-08	2010-06-24	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	2010-06-24	Present	DAILY	2400	PCPNX		
PRECIP	2010-06-24	Present	HOURLY	2400	AWPAG	RCRD;HTD	
TEMP	2003-04-08	2010-06-24	DAILY	2400	ATEMP		
PRECIP	1929-02-01	1982-01-01	DAILY	2400			
TEMP	1927-01-01	1928-12-31	DAILY	2400			
TEMP	1929-02-01	1982-01-01	DAILY	2400			
PRECIP	1984-09-16	1996-05-17	DAILY	2400	UNIV	RCRD	
PRECIP	1996-05-17	2003-04-08	HOURLY	2400	UNIV	RCRD	
TEMP	2010-06-24	Present	DAILY	2400	ATEMP		
PRECIP	1996-05-17	2003-04-08	DAILY	2400	UNIV	RCRD	
PRECIP	2003-04-08	2010-06-24	DAILY	2400	PCPNX		

* 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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Asheville, NC 28801-5001

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