

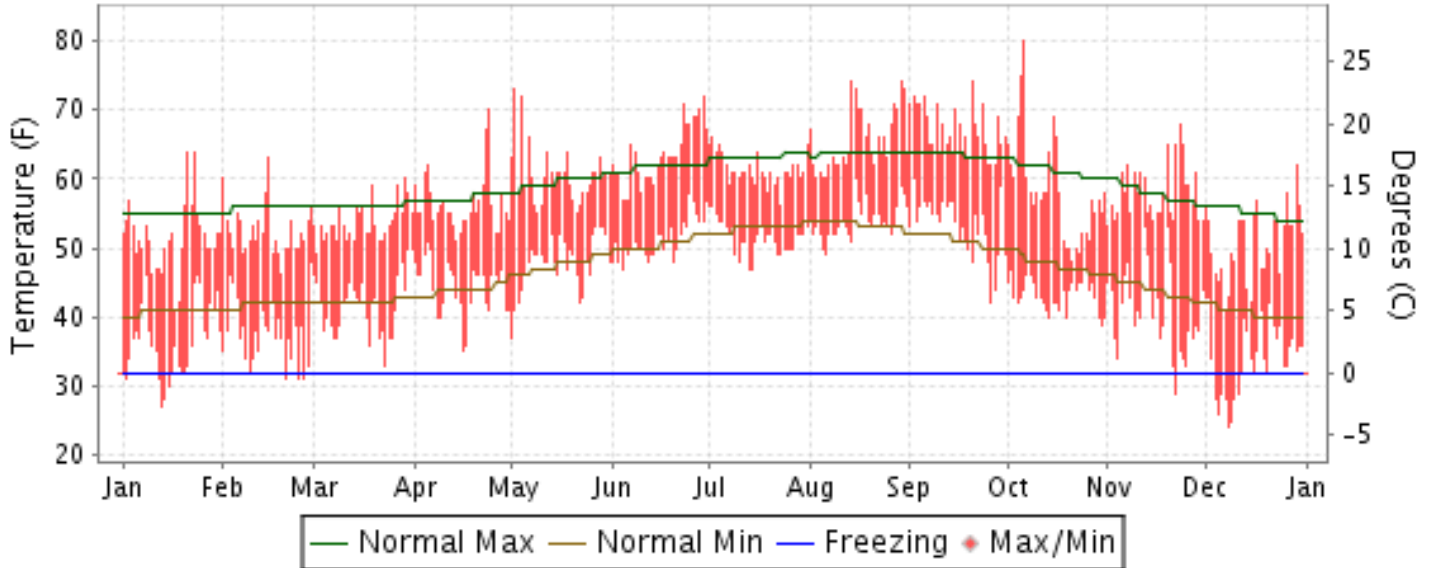


# 2013 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

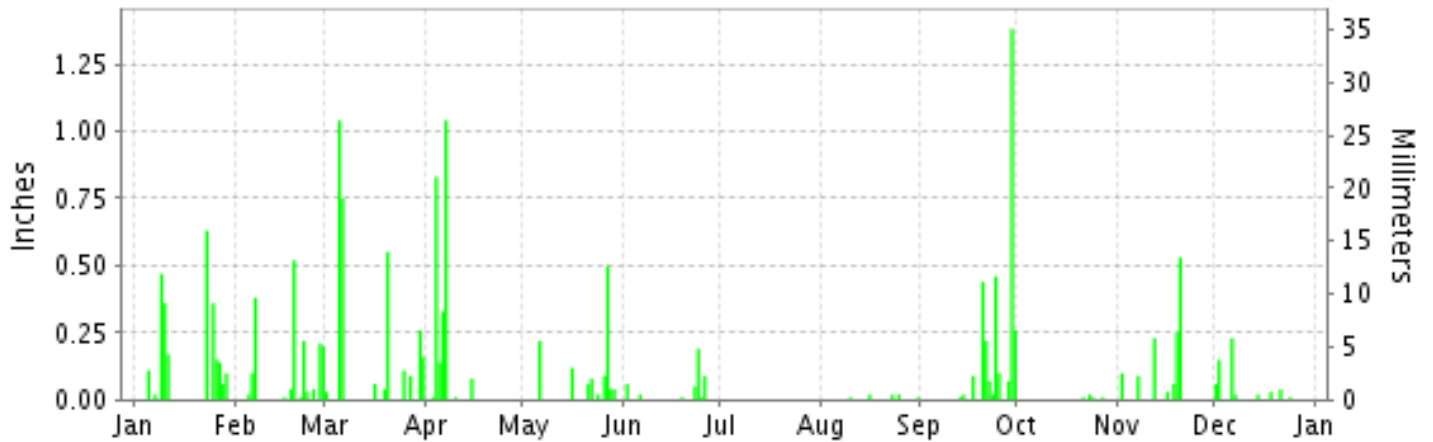
ISSN 0198-0882

## EUREKA, CALIFORNIA (KEKA)

### Daily Max/Min Temperature



### Daily Precipitation



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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

## EUREKA (KEKA)

LATITUDE:  
40° 48'N

LONGITUDE:  
124° 9'W

ELEVATION (FT):  
GRND: 20 BARO: 20

TIME ZONE:  
PACIFIC (UTC -8)

WBAN: 24213

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	51.5	52.4	53.7	56.5	60.6	63.4	61.3	65.6	67.2	58.3	58.1	50.7	58.3	
	HIGHEST DAILY MAXIMUM	64	63	60	70	73	72	66	74	74	80	68	62	80	
	DATE OF OCCURRENCE	23+	15	29	24	02	29	02	29+	20	06	23	29	OCT 06	
	MEAN DAILY MINIMUM	36.5	37.6	41.6	44.3	47.8	51.3	51.5	53.9	53.2	43.2	40.8	34.1	44.7	
	LOWEST DAILY MINIMUM	27	31	33	35	37	47	47	49	42	39	29	24	24	
	DATE OF OCCURRENCE	13	26+	23	16	01	04	14+	06	26	30	22	08	DEC 08	
	AVERAGE DRY BULB	44.0	45.0	47.6	50.4	54.2	57.4	56.4	59.7	60.2	50.8	49.5	42.4	51.5	
	MEAN WET BULB														
	MEAN DEW POINT														
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	MAXIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MINIMUM <= 32°	9	4	0	0	0	0	0	0	0	0	1	11	25		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	644	550	530	429	327	223	260	159	138	434	460	692	4846	
	COOLING DEGREE DAYS	0	0	0	0	0	0	0	5	1	0	0	0	6	
RH	MEAN (PERCENT)														
	HOUR 04 LST														
	HOUR 10 LST														
	HOUR 16 LST														
	HOUR 22 LST														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	7	2	2	4	2	2	5	5	0	8	6	9	52	
	THUNDERSTORMS	0	0	1	0	0	0	0	0	0	0	0	0	1	
PR	MEAN STATION PRESS. (IN.)														
	MEAN SEA-LEVEL PRESS. (IN.)														
WINDS	RESULTANT SPEED (MPH)														
	RES. DIR. (TENS OF DEGS.)														
	MEAN SPEED (MPH)	3.1	4.4	5.2	7.0	5.6	5.2	5.5	4.4	4.8	3.4	3.6	3.3	4.6	
	PREVAIL.DIR.(TENS OF DEGS.)														
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	17	18	22	23	18	17	17	14	29	21	23	28	29	
	DIR. (TENS OF DEGS.)	18	36	36	36	34	25	01	27	23	36	36	36	23	
	DATE OF OCCURRENCE	23	09	21	29	19	23	05	29	28	09	21	19	SEP 28	
MAXIMUM 3-SECOND WIND:															
SPEED (MPH)	32	30	37	40	36	33	25	22	31	35	35	43	43		
DIR. (TENS OF DEGS.)	16	01	36	36	36	35	34	26	01	01	36	36	36		
DATE OF OCCURRENCE	23	08	21	07	01	07	05	29	06	09	21	19	DEC 19		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	2.57	1.78	3.09	2.44	1.17	0.43	T	0.08	3.14	0.05	1.29	0.56	16.60	
	GREATEST 24-HOUR (IN.)	0.63	0.56	1.78	1.17	0.50	0.22	T	0.03	1.47	0.02	0.59	0.25	1.78	
	DATE OF OCCURRENCE	23	18-19	05-06	06-07	27	23-24	30+	08	29-30	23	19-20	06-07	MAR 05-06	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	11	12	10	7	9	7	0	5	12	4	7	8	92		
PRECIPITATION 0.10	9	6	6	4	3	1	0	0	6	0	4	2	41		
PRECIPITATION 1.00	0	0	1	1	0	0	0	0	1	0	0	0	3		
SNOWFALL	SNOW,ICE PELLETS,HAIL	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	
	TOTAL (IN.)	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	
	GREATEST 24-HOUR (IN.)	09											07	DEC 07	
	DATE OF OCCURRENCE	0	0	0	0	0	0	0	0	0	0	0	0	0	
	MAXIMUM SNOW DEPTH (IN.)														
DATE OF OCCURRENCE															
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0		

# NORMALS, MEANS, AND EXTREMES EUREKA (KEKA)

LATITUDE:  
40° 48'N

LONGITUDE:  
124° 9'W

ELEVATION (FT):  
GRND: 20 BARO: 20

TIME ZONE:  
PACIFIC (UTC -8)

WBAN: 24213

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	55.6	56.1	56.7	57.7	60.1	62.2	63.4	64.3	63.7	61.7	58.0	55.0	59.5
	MEAN DAILY MAXIMUM	72	54.4	55.2	55.3	56.2	58.5	60.8	62.0	62.8	62.9	61.0	58.0	54.9	58.5
	HIGHEST DAILY MAXIMUM	103	78	85	78	80	84	85	76	82	86	87	78	77	87
	YEAR OF OCCURRENCE		1986	1930	1914	1989	1939	1945	1992	1991	1983	1993	1987	1963	OCT 1993
	MEAN OF EXTREME MAXS.	72	65.3	66.2	65.5	66.2	68.7	68.5	68.1	69.9	73.3	73.7	68.1	64.9	68.2
	NORMAL DAILY MINIMUM	30	41.1	41.7	42.6	44.1	47.5	50.1	52.0	52.8	50.4	47.1	43.5	40.6	46.1
	MEAN DAILY MINIMUM	72	41.2	42.3	42.9	44.4	47.7	50.6	52.4	53.1	51.2	48.1	44.7	41.7	46.7
	LOWEST DAILY MINIMUM	103	25	27	29	29	35	40	45	44	41	32	29	21	21
	YEAR OF OCCURRENCE		2007	1990	1917	2009	2010	2003	1924	1935	2007	1971	2013	1972	DEC 1972
	MEAN OF EXTREME MINS.	72	31.5	33.2	34.5	36.9	40.7	45.2	48.2	48.8	45.2	40.0	35.1	31.9	39.3
	NORMAL DRY BULB	30	48.3	48.9	49.7	50.9	53.8	56.1	57.7	58.5	57.0	54.4	50.8	47.8	52.8
	MEAN DRY BULB	72	47.8	48.8	49.1	50.4	53.2	55.7	57.2	57.9	57.1	54.6	51.3	47.6	52.6
	MEAN WET BULB														
	MEAN DEW POINT														
	NORMAL NO. DAYS WITH:														
MAXIMUM >= 90	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	
MAXIMUM <= 32	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	
MINIMUM <= 32	30	1.6	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.1	
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	516	451	476	423	347	266	226	200	239	329	428	533	4434
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	0	0	0	0	0	0	0	0	0
RH	NORMAL (PERCENT)	30													
	hour 04 LST	30													
	hour 10 LST	30													
	hour 16 LST	30													
	hour 22 LST	30													
S	PERCENT POSSIBLE SUNSHINE	84	43	46	52	57	58	59	55	51	55	50	44	41	51
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI) THUNDERSTORMS	35 51	4.0 0.5	1.9 0.5	1.6 0.3	1.4 0.1	1.5 0.1	1.7 0.2	3.4 0.1	5.3 0.1	6.8 0.2	8.5 0.3	3.7 0.4	3.7 0.5	43.5 3.3
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	63	5.8	5.9	5.8	5.6	5.4	5.2	5.1	5.3	4.8	5.1	5.7	5.6	5.4
	MIDNIGHT-MIDNIGHT (OKTAS)	2	2.6	3.2	0.0	0.0	2.6	0.0	2.5	0.0	2.8	2.4	0.0	2.4	1.5
	MEAN NO. DAYS WITH:														
	CLEAR	94	5.8	5.1	5.6	6.0	6.5	7.2	6.4	5.4	8.7	8.1	6.1	6.3	77.2
PARTLY CLOUDY	95	6.4	5.8	8.1	8.4	10.1	9.7	11.1	10.8	8.6	8.4	6.6	6.5	100.5	
CLOUDY	95	18.8	17.3	17.5	15.5	14.5	13.1	13.4	14.2	12.3	14.0	16.9	17.9	185.4	
PR	MEAN STATION PRESSURE(IN)														
	MEAN SEA-LEVEL PRES. (IN)														
WINDS	MEAN SPEED (MPH)	1	3.1	5.3	6.5	6.0	5.8	5.6	5.6	4.5	4.1	3.6	4.4	4.5	4.9
	PREVAIL.DIR.(TENS OF DEGS)														
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	85	54	48	48	49	40	39	35	34	44	56	55	56	56
	DIR. (TENS OF DEGS)		18	22	22	36	32	32	36	36	36	22	18	18	22
	YEAR OF OCCURRENCE		1955	1960	1953	1915	1955	1949	1986	1920	1941	1962	1981	1931	OCT 1962
MAXIMUM 3-SECOND															
SPEED (MPH)															
DIR. (TENS OF DEGS)															
YEAR OF OCCURRENCE															
PRECIPITATION	NORMAL (IN)	30	6.50	5.63	5.30	3.32	1.78	0.75	0.18	0.31	0.59	2.24	5.61	8.12	40.33
	MAXIMUM MONTHLY (IN)	103	13.92	13.95	13.97	11.25	6.05	3.08	1.34	3.42	3.56	13.04	16.58	23.31	23.31
	YEAR OF OCCURRENCE		1969	1998	1938	2003	1960	2005	1916	1983	1925	1950	1973	2002	DEC 2002
	MINIMUM MONTHLY (IN)	103	0.66	0.50	0.07	0.31	0.03	0.00	0.00	0.00	0.00	0.00	T	0.52	0.00
	YEAR OF OCCURRENCE		1985	1923	1926	1956	1955	1917	1967	1940	1929	1917	1967	1976	JUL 1967
	MAXIMUM IN 24 HOURS (IN)	103	4.42	4.88	4.02	2.56	2.23	1.73	1.18	2.21	1.54	5.83	5.21	6.85	6.85
	YEAR OF OCCURRENCE		1912	1959	1975	1983	1943	1943	1916	1983	1977	1950	1998	2002	DEC 2002
	NORMAL NO. DAYS WITH:														
PRECIPITATION >= 0.01	30	16.6	14.9	16.2	13.4	9.1	5.8	2.7	3.2	4.4	8.5	15.2	17.5	127.5	
PRECIPITATION >= 1.00	30	1.7	1.1	0.9	0.5	0.1	0.1	0.0	0.1	0.0	0.4	1.5	2.4	8.8	
SNOWFALL	NORMAL (IN)	30	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
	MAXIMUM MONTHLY (IN)	103	3.0	3.5	1.0	0.1	T	T	T	T	T	0.0	0.0	0.1	1.9
	YEAR OF OCCURRENCE		1935	1989	1966	2003	2011	2008	2013	2006			1977	1972	FEB 1989
	MAXIMUM IN 24 HOURS (IN)	103	3.0	2.0	1.0	0.1	T	T	0.0	0.0	0.0	0.0	0.1	1.9	3.0
	YEAR OF OCCURRENCE		1935	1989	1966	2003	2011	2008					1977	1972	JAN 1935
	MAXIMUM SNOW DEPTH (IN)	71	0	1	1	0	0	0	0	0	0	0	0	3	3
	YEAR OF OCCURRENCE			1989	1999									2007	DEC 2007
NORMAL NO. DAYS WITH:															
SNOWFALL >= 1.0	30	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	

**PRECIPITATION (inches) 2013 EUREKA (KEKA)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	0.76	5.18	4.70	2.76	2.51	1.07	0.03	0.05	0.55	3.67	15.15	4.27	40.70
1985	0.66	3.69	4.68	0.45	1.14	0.89	0.15	0.52	1.06	4.07	2.98	2.78	23.07
1986	7.19	10.08	6.12	1.46	2.34	0.21	0.02	T	2.70	1.75	1.85	3.83	37.55
1987	6.48	3.38	6.10	1.15	0.41	0.26	0.20	0.06	0.02	1.05	4.23	10.92	34.26
1988	7.13	0.54	1.18	2.06	2.70	2.22	0.05	T	0.12	0.41	8.93	6.26	31.60
1989	4.71	2.88	7.63	2.01	1.67	0.21	0.08	0.13	0.85	2.90	1.60	0.80	25.47
1990	7.20	4.50	3.30	1.41	3.74	0.32	0.22	0.71	0.19	1.73	3.07	2.95	29.34
1991	1.65	2.75	6.94	2.52	2.16	0.26	1.13	0.37	T	1.06	1.95	2.36	23.15
1992	3.99	3.80	3.51	2.42	0.06	1.27	0.25	0.01	0.33	2.08	2.21	9.33	29.26
1993	7.15	5.93	4.72	5.94	4.44	1.23	0.37	0.54	0.03	0.56	1.35	7.12	39.38
1994	5.09	7.12	2.06	3.30	1.10	0.71	0.08	T	0.06	0.54	8.21	7.00	35.27
1995	12.74	1.40	11.18	7.47	1.21	1.85	0.08	0.22	0.69	0.53	2.26	11.56	51.19
1996	10.74	8.11	3.51	4.64	2.40	0.05	.03	T	1.21	3.50	5.16	21.26	60.61
1997	8.81	2.55	2.73	3.06	0.90	1.25	T	0.84	2.05	2.73	7.39	4.73	37.04
1998	13.42	13.95	7.83	2.23	3.12	0.33	0.16	0.01	0.08	3.06	14.09	5.40	63.68
1999	4.37	10.32	8.94	1.79	1.62	0.15	0.04	0.30	0.05	1.60	7.36	3.02	39.56
2000	9.71	7.00	2.81	2.15	1.86	0.54	0.04	T	0.55	2.99	3.51	1.97	33.13
2001	3.79	3.60	2.45	2.54	0.71	0.69	0.20	0.21	0.28	1.00	7.71	11.56	34.74
2002	6.37	5.76	4.32	2.42	0.55	0.28	0.03	0.01	0.06	0.06	2.66	23.31	45.83
2003	5.51	3.84	4.91	11.25	1.74	0.04	0.02	0.49	0.35	0.55	5.78	11.35	45.83
2004	6.29	8.12	2.38	1.68	1.37	0.06	0.06	0.43	0.68	5.71	1.87	9.43	38.08
2005	5.91	2.41	6.24	4.70	3.90	3.08	0.05	0.07	0.08	2.40	8.52	12.72	50.08
2006	12.09	6.34	11.11	4.08	1.03	0.35	0.04	T	0.09	0.58	7.41	7.09	50.21
2007	1.86	11.86	2.51	2.72	0.86	0.46	0.97	0.08	0.60	4.92	2.33	7.30	36.47
2008	9.70	2.73	3.16	2.12	0.04	0.24	0.02	0.47	0.05	0.93	4.05	6.66	30.17
2009	1.58	6.20	5.45	1.23	2.93	0.18	0.06	0.02	1.03	1.95	4.15	4.17	28.95
2010	9.29	4.20	6.06	7.76	3.51	2.31	0.04	0.15	1.39	4.26	4.69	10.08	53.74
2011	2.23	3.62	11.88	4.07	1.43	1.29	0.17	0.04	0.37	4.21	3.86	2.22	35.39
2012	7.76	2.63	12.02	4.76	0.77	2.00	0.67	0.07	0.04	2.72	6.36	10.97	50.77
2013	2.57	1.78	3.09	2.44	1.17	0.43	T	0.08	3.14	0.05	1.29	0.56	16.60
POR= 72 YRS	6.46	5.22	5.31	3.10	1.78	0.68	0.16	0.30	0.74	2.70	5.60	6.92	38.97

WBAN : 24213

**AVERAGE TEMPERATURE (°F) 2013 EUREKA (KEKA)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	49.4	50.0	52.8	51.3	55.0	55.2	57.6	60.2	58.3	55.3	52.1	46.8	53.7
1985	48.4	47.9	47.4	51.6	53.9	56.6	58.6	58.5	56.7	54.5	46.6	47.7	52.4
1986	54.3	52.7	53.1	50.7	53.9	59.0	57.4	57.2	57.2	55.6	53.5	51.3	54.7
1987	49.1	51.4	52.7	54.2	56.6	57.7	59.5	58.5	57.3	57.8	54.8	49.7	54.9
1988	50.4	50.2	50.3	52.8	56.3	57.7	58.8	57.7	55.8	55.2	53.3	47.7	53.9
1989	46.0	45.6	51.8	54.6	55.9	57.6	59.4	59.3	56.6	54.9	52.6	49.2	53.6
1990	48.3	45.5	50.2	52.8	54.0	58.2	59.8	60.4	61.6	54.3	49.7	42.8	53.1
1991	47.8	52.8	48.1	50.9	52.2	53.8	57.3	59.9	57.2	56.1	51.4	48.3	53.0
1992	50.3	53.9	54.1	56.4	56.7	58.3	60.6	59.1	57.5	58.0	51.7	46.9	55.3
1993	46.4	49.4	53.4	53.6	57.9	57.9	57.4	59.8	55.8	56.9	49.9	49.5	54.0
1994	50.5	48.5	51.1	52.8	55.5	57.0	57.1	61.4	59.6	54.4	45.6	46.7	53.4
1995	52.4	51.7	50.4	51.1	53.7	56.0	60.2	58.4	60.3	54.9	53.9	52.0	54.6
1996	49.5	52.3	50.7	52.9	53.7	55.5	57.4	58.1	55.8	54.5	51.3	50.9	53.6
1997	48.5	47.9	49.5	51.4	57.8	57.8	59.5	61.4	62.2	55.1	53.4	47.7	54.4
1998	52.0	50.1	50.2	50.4	53.9	56.7	58.5	58.8	57.4	55.0	51.7	44.6	53.3
1999	47.4	47.3	46.8	48.6	51.3	55.0	56.5	60.1	54.9	52.5	54.7	46.0	51.8
2000	48.3	51.6	48.4	52.3	55.3	56.7	58.7	59.0	58.7	54.3	48.6	48.4	53.4
2001	46.9	47.0	50.2	49.2	54.0	56.0	57.4	59.5	56.2	54.4	51.8	49.2	52.7
2002	46.6	49.0	47.0	51.4	52.3	56.3	58.6	57.0	57.3	51.9	52.3	50.6	52.5
2003	54.0	47.9	52.2	50.6	54.1	57.2	58.8	61.2	58.0	56.5	49.8	49.1	54.1
2004	49.6	49.2	51.5	52.6	56.7	58.1	60.3	61.1	58.1	54.9	48.9	48.4	54.1
2005	47.6	50.2	52.0	51.7	57.2	57.4	58.7	57.0	55.1	53.8	49.6	50.4	53.4
2006	49.2	47.6	47.3	50.9	54.2	58.0	58.4	56.8	55.3	52.4	51.9	48.0	52.5
2007	42.9	48.3	50.4	50.7	52.7	56.2	61.3	59.6	57.0	53.8	50.3	44.8	52.3
2008	44.9	45.9	47.3	48.1	53.6	53.7	56.9	58.7	55.2	54.1	53.0	45.2	51.4
2009	46.8	48.3	47.9	49.7	53.5	57.3	56.7	59.0	59.5	54.6	50.1	46.5	52.5
2010	51.6	50.8	48.9	49.5	51.9	56.1	55.3	56.7	57.3	55.3	48.8	49.6	52.7
2011	48.5	45.1	49.5	48.5	51.4	55.7	57.5	58.0	56.9	55.4	48.8	44.5	51.7
2012	46.6	47.6	47.0	50.3	51.8	54.7	57.2	56.7	53.6	55.1	53.4	46.0	51.7
2013	44.0	45.0	47.6	50.4	54.2	57.4	56.4	59.7	60.2	50.8	49.5	42.4	51.5
POR= 72 YRS	47.8	48.8	49.1	50.4	53.2	55.7	57.2	57.9	57.1	54.6	51.3	47.6	52.6

**HEATING DEGREE DAYS (base 65°F) 2013 EUREKA (KEKA)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	222	142	195	295	378	556	507	472	532	396	338	243	4276
1985-86	195	194	244	316	546	533	329	337	365	422	338	169	3988
1986-87	227	236	227	290	341	417	487	372	377	316	260	213	3763
1987-88	163	196	226	221	302	470	446	423	453	358	265	215	3738
1988-89	187	218	274	297	345	529	582	535	403	309	278	214	4171
1989-90	164	171	243	306	365	482	513	541	453	356	332	198	4124
1990-91	154	141	95	325	451	680	528	336	516	418	387	330	4361
1991-92	229	164	225	274	401	511	450	316	329	250	248	193	3590
1992-93	135	176	220	211	393	556	570	433	354	337	214	203	3802
1993-94	229	152	268	253	446	472	442	455	426	357	286	233	4019
1994-95	241	102	155	321	576	559	383	368	445	412	341	263	4166
1995-96	142	196	133	308	325	394	472	360	435	352	344	278	3739
1996-97	231	205	268	323	407	431	501	476	475	401	212	209	4139
1997-98	163	106	82	300	341	529	397	409	450	432	337	242	3788
1998-99	192	186	223	305	393	624	541	490	556	485	417	296	4708
1999-00	254	146	295	382	303	580	511	382	506	378	298	242	4277
2000-01	191	179	181	326	484	506	555	500	453	467	337	264	4443
2001-02	228	168	257	322	389	481	566	442	554	400	387	253	4447
2002-03	190	237	225	402	373	438	333	476	389	427	329	229	4048
2003-04	184	113	205	257	449	487	471	449	411	369	251	201	3847
2004-05	140	114	200	306	476	506	531	408	392	392	233	218	3916
2005-06	191	241	293	341	455	445	486	479	542	418	327	201	4419
2006-07	199	244	284	383	386	520	677	461	446	423	375	258	4656
2007-08	113	162	234	336	436	620	616	550	541	501	354	330	4793
2008-09	246	186	289	330	354	608	559	462	523	559	350	227	4693
2009-10	252	180	158	316	440	559	410	389	494	459	397	262	4316
2010-11	296	253	225	291	479	469	506	553	473	489	415	272	4721
2011-12	226	208	237	294	481	506	565	497	552	436	401	301	4704
2012-13	236	251	334	299	343	581	644	550	530	429	327	223	4747
2013-	260	159	138	434	460	692							

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**COOLING DEGREE DAYS (base 65°F) 2013 EUREKA (KEKA)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1984	0	0	0	0	0	0	0	0	4	1	0	0	5
1985	0	0	0	0	0	0	1	0	0	2	0	0	3
1986	0	0	0	0	0	0	0	0	0	5	0	0	5
1987	0	0	0	0	3	0	0	0	0	5	0	0	8
1988	0	0	0	0	0	0	0	0	4	0	0	0	4
1989	0	0	0	1	0	0	0	0	0	0	0	0	1
1990	0	0	0	0	0	0	0	4	0	0	0	0	4
1991	0	0	0	0	0	0	0	10	0	4	0	0	14
1992	0	0	0	0	0	0	2	0	3	2	0	0	7
1993	0	3	0	0	3	0	0	0	0	8	0	0	14
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	1	0	0	1
1997	0	0	1	0	4	0	0	3	5	0	0	0	13
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	1	0	1
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	3	0	0	0	0	3
2002	0	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	1	1	0	0	0	2
2004	0	0	0	0	0	0	2	0	0	0	0	0	2
2005	0	0	0	0	0	0	1	0	0	0	0	0	1
2006	0	0	0	0	0	0	0	0	0	0	0	0	0
2007	0	0	0	0	0	0	6	3	0	0	0	0	9
2008	0	0	0	0	3	0	0	0	0	0	0	0	3
2009	0	0	0	0	0	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0	1	0	0	0	1
2011	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	0	0	0	0	0	0	0	5	1	0	0	0	6

**SNOWFALL (inches) 2013 EUREKA (KEKA)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	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
1985-86	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
1986-87	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
1987-88	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T
1988-89	0.0	0.0	0.0	0.0	0.0	T	0.0	3.5	0.0	0.0	0.0	0.0	3.5
1989-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0
1990-91	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	T	0.0	0.0	0.0	T
1991-92	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T
1992-93	0.0	0.0	0.0	0.0	0.0	T	0.0	T	0.0	T	0.0	0.0	T
1993-94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	T
1994-95	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T	T	0.0	0.0	T
1995-96	0.0	0.0	0.0	0.0	0.0	0.0	T	T	T	0.0	0.0	0.0	T
1996-97	0.0	0.0	0.0	0.0	0.0	T	T	0.0	T	0.0	0.0	0.0	T
1997-98	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	0.0	T
1998-99	0.0	0.0	0.0	0.0	0.0	T	T	T	0.6	T	0.0	0.0	0.6
1999-00	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	0.0	0.0	T
2000-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
2001-02	0.0	0.0	0.0	0.0	0.0	T	0.5	0.0	T	T	0.0	0.0	0.5
2002-03	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.1	0.0	0.0	0.1
2003-04	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	0.0	0.0	T
2004-05	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	T	0.0	0.0	T
2005-06	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
2006-07	0.0	0.0	0.0	0.0	0.0	0.0	T	T	T	0.0	0.0	0.0	T
2007-08	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	T	0.0	T	T
2008-09	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	T	0.0	0.0	0.0	T
2009-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	T
2010-11	0.0	0.0	0.0	0.0	T	T	0.0	T	T	T	T	0.0	T
2011-12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	T
2012-13	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	0.0	0.0	T
2013-	0.0	0.0	0.0	0.0	0.0	T							
POR= 72 YRS	0.0	0.0	0.0	0.0	T	T	0.1	0.1	T	T	T	T	0.2

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**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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# 2013 EUREKA CALIFORNIA (KEKA)

Humboldt Bay is one-quarter mile north and one mile west of the station. There are no hills in Eureka of any consequence. The land slopes upward gently from the Bay toward the Coast Range, which begins about 3 miles east of the station and reaches the top of its first ridge approximately 10 miles to the east. The elevation of the ridge is 2,000 feet and extends in a semicircle from a point 20 miles north of Eureka to a point 25 miles south.

The climate of Eureka is completely maritime with high humidity prevailing the entire year. There are definite rainy and dry seasons. The rainy season begins in October and continues through April, accounting for about 90 percent of the annual precipitation. The dry season from May through September is marked by considerable fog or low cloudiness that usually clears in the late morning and sunny weather is generally the case during the early afternoon hours.

Temperatures are moderate the entire year. Although record highs have reached the mid 80s and record lows near 20 degrees, the usual yearly range is from lows in the mid 30s to highs in the mid 70s.

The principal industries are lumbering, fishing, tourism, and dairy farming. There is very little truck farming due to the low temperatures and lack of sunshine, however, the climate is nearly ideal for berries and flowers.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is December 10 and the average last occurrence in the spring is February 6.

# Station History

EUREKA, CA

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
EUREKA WFO WOODLEY ISLAND	1994-10-18	1995-07-01	40° 49'	-124° 10'	20	.8 MI NE	COOP, USHCN, WXSVC
EUREKA WSO CITY	1945-07-01	1994-10-18	40° 48'	-124° 10'	43		COOP, USHCN, WXSVC
EUREKA WFO WOODLEY ISLAND	1998-07-01	2007-10-04	40° 48'	-124° 9'	20		COOP, USHCN, WXSVC
EUREKA WFO WOODLEY ISLAND	2007-10-04	2008-04-26	40° 48'	-124° 9'	20		COOP, USHCN, WXSVC
EUREKA WSO CITY	1929-12-31	1930-07-01	40° 48'	-124° 10'	43		COOP, USHCN
EUREKA WSO CITY	1944-12-31	1945-07-01	40° 48'	-124° 10'	43		COOP, USHCN
EUREKA WFO WOODLEY ISLAND	2008-04-26	Present	40° 48'	-124° 9'	20		COOP, USHCN, WXSVC
EUREKA WSO CITY	1893-01-01	1911-01-01	40° 48'	-124° 10'			COOP, USHCN, WXSVC
EUREKA WSO CITY	1911-01-01	1929-12-31	40° 48'	-124° 10'	43		COOP, USHCN, WXSVC
EUREKA WSO CITY	1930-07-01	1939-06-30	40° 48'	-124° 10'	43		COOP, USHCN, WXSVC
EUREKA WSO CITY	1939-06-30	1940-01-01	40° 48'	-124° 10'	43		COOP, USHCN
EUREKA WSO CITY	1940-01-01	1944-12-31	40° 48'	-124° 10'	43		COOP, USHCN, WXSVC
EUREKA WFO WOODLEY ISLAND	1995-07-01	1998-07-01	40° 49'	-124° 10'	20		COOP, USHCN, WXSVC

# Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1988-09-30	1993-08-05	DAILY	2400	TB	RCRD	ROOF
PRECIP	1994-10-18	1995-07-01	DAILY		SRG		
TEMP	1994-10-18	1995-07-01	DAILY		MMTS		
PRECIP	2007-10-04	2009-08-12	DAILY	2400	SRG		
PRECIP	2009-08-12	Present	DAILY	2400	SRG		
PRECIP	2009-08-12	Present	HOURLY	VAR	TB	RCRD	
PRECIP	1893-01-01	1982-01-01	DAILY	2400			
TEMP	1982-01-01	1987-03-18	DAILY	2400			
TEMP	2009-08-12	Present	DAILY	2400	MMTS		
PRECIP	1982-01-01	1987-03-18	HOURLY	2400	TB	RCRD	ROOF
TEMP	1987-03-18	1988-09-30	DAILY	2400	HYGR		ROOF
TEMP	1993-08-05	1994-10-18	DAILY	2400	HYGR		ROOF
TEMP	1995-07-01	2007-10-04	DAILY	2400	MMTS		
TEMP	1893-01-01	1982-01-01	DAILY	2400			
PRECIP	1987-03-18	1988-09-30	DAILY	2400			
PRECIP	1993-08-05	1994-10-18	HOURLY	2400	TB	RCRD	ROOF
PRECIP	1995-07-01	2007-10-04	DAILY	2400	SRG		
PRECIP	2007-10-04	2009-08-12	HOURLY				
PRECIP	1987-03-18	1988-09-30	HOURLY	2400	TB	RCRD	ROOF
PRECIP	1994-10-18	1995-07-01	HOURLY	2400			
PRECIP	1995-07-01	2007-10-04	HOURLY	2400			
TEMP	2007-10-04	2009-08-12	DAILY	2400	MMTS		
PRECIP	1988-09-30	1993-08-05	HOURLY	2400	TB	RCRD	ROOF
PRECIP	1993-08-05	1994-10-18	DAILY	2400	SRG		ROOF
PRECIP	1982-01-01	1987-03-18	DAILY	2400			
TEMP	1988-09-30	1993-08-05	DAILY	2400	HYGR		ROOF

\* 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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