

U.S. DEPARTMENT OF COMMERCE
 ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
 IN COOPERATION WITH BANDON CHAMBER OF COMMERCE
 CLIMATOGRAPHY OF THE UNITED STATES NO. 20 - 35

LATITUDE 43° 07' N
 LONGITUDE 124° 23' W
 ELEV. (GROUND) 80 Feet

CLIMATOLOGICAL SUMMARY

STATION BANDON, OREGON

MEANS AND EXTREMES FOR PERIOD 1934 - 1968

Month	Temperature (°F)								** Mean degree days	Precipitation Totals (Inches)						Mean number of days					Month	
	Means				Extremes					Mean	Greatest daily	Year	Snow, Sleet				Temperatures					
	Daily maximum	Daily minimum	Monthly	Record highest	Year	Record lowest	Year	Precip. .10 inch or more					Maximum monthly	Year	Greatest daily	Year	90° and above		32° and below			
																	Max.	Min.	32° and above	32° and below		32° and below
(a)	23	23	23	28		28		13	30	60		30	30			14	25	25	25	25		
Jan.	52.7	38.0	45.4	66	1962	15	1950	608	9.66	4.07	1895	0.5	6.0	1950	4.0	1949	15	0	*	7	0	Jan.
Feb.	54.1	39.2	46.7	70	1943	19	1948	512	7.86	4.99	1961	0.0	0.0		0.0	12	0	0	5	0	Feb.	
Mar.	54.3	39.2	46.8	79	1941	26	1951	564	7.07	3.90	1894	*	0.5	1950+	0.5	1950+	14	0	0	3	0	Mar.
Apr.	56.7	41.3	49.0	84	1951	29	1951	480	4.08	2.77	1896	0.0	0.0		0.0	9	0	0	1	0	Apr.	
May	59.9	44.5	52.2	85	1949	30	1965	396	2.74	3.07	1949	0.0	0.0		0.0	7	0	0	*	0	May	
June	63.5	48.5	56.0	93	1950	33	1950	270	1.25	2.10	1888	0.0	0.0		0.0	3	*	0	0	0	June	
July	64.9	50.3	57.6	79	1948	37	1949	229	0.38	1.00	1947	0.0	0.0		0.0	1	0	0	0	0	July	
Aug.	65.3	50.1	57.7	85	1950	35	1951	226	0.58	1.09	1899	0.0	0.0		0.0	1	*	0	0	0	Aug.	
Sep.	65.3	48.2	56.7	91	1948	32	1950	249	1.45	3.80	1895	0.0	0.0		0.0	3	*	0	0	0	Sep.	
Oct.	62.1	45.2	53.7	84	1964	28	1949	350	5.05	5.48	1947	0.0	0.0		0.0	8	0	0	*	0	Oct.	
Nov.	58.0	42.2	50.1	77	1950	23	1952	447	8.16	6.46	1941	0.0	0.0		0.0	1	0	0	2	0	Nov.	
Dec.	54.2	39.8	47.0	73	1944	24	1965	558	8.76	3.99	1941	0.0	0.0		0.0	1	0	0	4	0	Dec.	
Year	59.3	43.9	51.6	93	June 1941	15	Jan. 1950	4889	57.04	6.46	Nov. 1941	0.5	6.0	Jan. 1950	4.0	Jan. 1949	75	*	*	22	0	Year

(a) Average length of record, years.

T Trace, an amount too small to measure.

** Base 65°F

+ Also on earlier dates, months, or years.

* Less than one half.

CLIMATE OF BANDON, OREGON

Bandon is located along the southern portion of the Oregon Coast on a coastal plain at the mouth of the Coquille River. The Pacific Ocean forms Bandon's western boundary, and within 3 to 4 miles east of the city the foothills of the Coast Range begin their ascent to the crest ridge which ranges in elevation from 2,000 to 3,000 feet. The crest forms within 30 miles of Bandon.

With the prevailing airflow from the west most air masses, after traveling several days over the ocean, reach the coast nearly saturated and with a temperature near that of the ocean, at least in the lower levels. The major source of precipitation for Bandon is from incoming winter Pacific storms. Also, incoming air masses are cooled by passage over the cooler winter land surface and by lifting as the air moves up the slopes of the Coast Range. Resulting condensation adds considerable precipitation to the winter storms' totals. The months November to March account for 73 percent of the 57.07 inches of annual precipitation. Winter precipitation is almost always rain; most years no snow at all is recorded.

In the summer months a monsoon circulation is initiated as air passing over the warmer land surface is heated and forced to rise being replaced by cooler air moving in from the ocean. This brings frequent low stratus and fog to this coastal city. A short distance inland heating of the marine air by the warmer land surface causes the fog to dissipate. In the months June through August Bandon receives only 7 percent of its annual precipitation, with very few Pacific storms during these months. Thunderstorms occur only 4 to 6 days a year, mostly in the early fall and add only slightly to precipitation totals.

In Table 1 are presented statistical estimates of short-period maximum rainfall intensities for selected return periods.

Table 1. Statistical Estimates for Maximum Short-Period Rainfall Intensities (in Inches) for 2-, 5-, 10-, 50- and 100-Year Return Periods. (Amounts shown in inches and tenths; return periods in years)

Return Period	Length of Time for Maximum Intensities							
	30 Min.	1 Hr.	2 Hrs.	3 Hrs.	6 Hrs.	12 Hrs.	24 Hrs.	
2	.6	.8	1.3	1.8	2.8	3.5	3.6	
5	.8	1.0	1.5	1.9	3.0	4.0	4.5	
10	.8	1.2	1.7	2.3	3.8	4.5	5.0	
25	1.0	1.4	2.0	2.7	4.0	5.7	7.0	
50	1.2	1.5	2.3	2.8	4.5	5.8	7.5	
100	1.2	1.5	2.4	3.3	4.8	7.0	7.8	

The air conditioning effect of the Pacific Ocean produces mild temperatures year around. There is only a 12 degree difference in mean monthly temperatures from January, the coldest month, to August, the warmest month. The lowest temperature observed in the 28-year temperature record is 15 degrees, the highest 93. Only twice in that time has the temperature risen above 90 degrees.

The mountainous area surrounding Bandon is covered with heavy timber. Mild temperatures and heavy rainfall make this Coast Range area one of the fastest tree growing areas in the Nation. The climate is also ideally suited for the growing of cranberries. Bandon is the center for a large multi-million dollar cranberry industry.

In order to provide an estimate of the growing season as well as other temperatures that may be significant to local agriculture, a table of the dates for 10 percent probability for last occurrence in spring and first in fall of temperatures of 24°, 28°- and 32°- is given below.

Statistical Likelihood (In Percent) That Temperatures of 24°, 28°- and 32°- Will Occur In Spring After Dates Indicated.

Tempt.	90%	80%	70%	60%	50%	40%	30%	20%	10%
24°	#	#	#	#	#	#	1/21	1/29	2/25
28°	#	#	#	1/14	1/30	2/10	2/18	2/27	3/12
32°	2/28	3/13	3/23	3/31	4/7	4/15	4/23	5/3	5/16

Statistical Likelihood (In Percent) That Temperatures of 24°, 28°- and 32°- Will Occur In Fall Before Dates Indicated.

Tempt.	10%	20%	30%	40%	50%	60%	70%	80%	90%
24°	12/24	#	#	#	#	#	#	#	#
28°	11/16	12/1	12/14	#	#	#	#	#	#
32°	10/18	10/28	11/15	11/11	11/18	11/24	12/2	12/13	#

A temperature this low does not occur with this great a frequency.

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July 1969

Average Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1941	49.6	50.8	50.6	50.6	52.1	58.8	60.1	58.6	57.0	54.0	52.5	48.0	53.6
1942	49.2	46.2	45.6	49.6	53.2	55.8	60.0	58.0	54.2	52.6	49.4	49.0	51.9
1943	44.3	47.6	46.6	50.9	51.0	55.8	56.5	57.2	55.6	53.9	52.2	48.6	51.7
1945	49.2	48.2	47.0	49.5	54.7	58.5	58.5	57.0	56.1	54.4	50.8	49.2	52.6
1947	-	48.8	49.2	51.9	52.3	56.8	59.2	58.0	-	52.6	47.6	44.4	-
1948	42.8	41.8	44.6	46.3	51.4	57.0	59.0	60.0	57.2	52.0	46.0	41.2	50.0
1949	37.3	43.5	47.4	50.0	54.4	56.2	58.0	58.9	57.8	50.2	53.0	43.7	50.8
1950	39.1	45.2	45.7	48.1	51.0	55.9	59.6	60.8	57.1	54.2	50.3	51.1	51.5
1951	43.1	46.0	43.3	48.3	52.8	55.8	58.6	58.9	-	-	50.6	43.8	-
1952	43.2	45.1	44.5	47.4	50.4	52.4	54.3	54.9	53.1	51.1	45.5	45.0	48.9
1953	48.6	44.2	45.7	48.5	51.7	53.9	55.9	58.0	57.5	54.2	52.4	47.4	51.5
1954	45.1	48.0	47.0	48.3	51.0	54.1	54.9	56.4	56.5	53.2	52.8	47.4	51.2
1955	44.7	44.6	44.8	45.7	48.8	53.5	55.8	53.3	54.2	52.6	-	45.0	-
1956	-	-	45.6	47.8	51.8	54.0	55.3	56.4	54.9	52.3	46.5	45.0	51.7
1957	41.3	47.2	48.6	49.3	53.6	56.0	56.4	57.6	58.7	54.6	49.2	47.8	-
1958	49.6	52.4	46.8	50.1	53.6	58.5	57.2	56.7	57.0	53.8	51.0	51.0	53.2
1959	48.7	45.4	47.9	50.7	51.9	57.3	57.0	55.9	56.8	54.8	50.0	46.9	51.9
1960	45.7	46.3	48.4	50.4	52.3	55.4	55.5	57.0	54.4	-	47.7	45.8	-
1961	49.0	49.3	48.5	49.1	52.5	56.1	58.4	58.1	55.8	52.0	47.7	45.8	51.9
1962	44.0	46.1	47.0	49.9	50.9	53.7	55.5	-	57.6	54.6	51.3	47.9	-
1963	42.8	53.3	47.6	48.8	53.2	-	57.3	57.7	58.4	53.6	50.9	48.2	-
1964	46.1	44.3	44.7	46.3	49.6	55.0	57.3	56.9	55.3	54.9	47.6	46.9	50.4
1965	46.0	45.1	46.8	49.8	49.6	53.9	56.7	59.7	55.5	55.7	52.9	44.4	51.3
1966	45.8	44.9	47.1	50.6	51.0	56.0	58.2	59.0	58.8	54.5	51.1	47.9	52.1
1967	46.4	46.0	45.6	46.3	52.3	57.1	58.8	59.2	59.7	55.3	51.3	44.3	51.9
1968	45.8	52.0	49.7	46.9	52.6	57.2	59.1	60.0	58.7	53.3	51.3	45.7	52.7

SUBSTATION HISTORY
Bandon, Oregon

A cooperative weather station obtaining both temperature and precipitation was established at Bandon in December 1877 with Mr. George Bennett the observer. Mr. Bennett continued this station, maintaining very complete records, until December 1900. In June 1897 a precipitation-only station was also established at the Coquille River Lighthouse. The precipitation gage was located on a sandy spit along the west bank of the Coquille River. Observations were made by Lighthouse Service personnel. At the end of 1900 the Bandon station was discontinued though the one at the Coquille River Lighthouse remained operative. It was not until 1941, however, that temperature measuring instruments were added to the Lighthouse station. In 1940 a recording rain gage was installed to supplement the information being obtained by the manual gage. In 1947 all equipment was moved from the lighthouse to a downtown filling station operated by Mr. Stanley Tucker, who also became the weather observer. In 1948 Mr. Sumner Fish took over the observations at his home 2 miles east of downtown Bandon. In 1951 it was moved back into town to the Coast Guard Lifeboat station with

Total Precipitation (Inches)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1934	6.80	2.39	2.06	2.72	1.24	0.33	0.24	0.24	1.14	6.67	11.62	9.09	44.54
1935	7.25	4.25	8.99	3.58	0.31	0.41	0.15	0.14	1.04	4.75	2.79	5.64	39.30
1936	12.32	6.75	3.71	2.11	1.94	0.44	0.44	0.00	0.35	0.21	0.58	6.27	38.94
1937	9.02	12.34	6.32	7.07	2.18	5.01	0.06	0.29	1.70	3.95	17.90	6.55	72.39
1938	7.50	10.50	14.65	3.24	1.14	0.17	0.07	0.05	0.87	4.40	4.75	4.06	51.20
1939	6.64	6.88	4.74	1.10	0.83	1.91	0.70	0.46	0.47	2.96	0.45	9.66	36.80
1940	4.19	13.93	6.44	1.99	3.21	1	0.48	0.03	2.83	7.63	7.61	14.64	62.98
1943	9.04	3.78	7.92	4.06	1.50	2.49	0.17	0.00	0.16	8.38	5.14	2.57	46.55
1944	5.11	5.89	3.25	5.09	2.35	0.97	0.17	1.06	1.06	3.49	8.30	4.09	39.77
1945	5.66	8.72	9.75	4.87	2.35	0.09	0.60	0.18	2.00	3.01	16.16	12.87	66.24
1948	8.85	10.63	6.45	9.50	4.91	0.71	0.99	1.15	2.96	2.41	9.16	T	57.72
1949	3.51	11.81	6.50	1.63	4.33	0.34	0.26	0.26	2.23	4.99	6.34	7.34	49.34
1950	19.75	8.63	8.75	4.48	1.79	2.12	0.33	0.77	1.94	15.32	11.08	7.19	82.15
1952	12.70	6.89	7.76	1.91	1.18	1.46	T	1.70	0.65	1.23	3.27	11.46	48.51
1953	16.97	7.13	8.19	3.89	7.31	2.07	0.16	1.76	2.18	3.56	13.17	10.01	76.40
1954	17.00	5.36	5.59	4.57	0.75	2.77	0.62	2.22	2.24	4.11	4.53	11.99	61.75
1955	6.81	5.22	7.94	8.58	0.94	1.03	0.91	T	1.99	9.15	8.75	25.56	76.88
1956	20.14	9.87	5.07	0.67	1.87	2.13	0.05	0.05	2.18	12.05	2.18	7.49	65.73
1957	5.40	8.42	9.35	2.95	3.29	1.04	0.40	0.51	1.86	7.03	3.21	11.68	55.12
1958	8.89	13.34	7.03	5.79	0.99	0.72	0.84	0.21	1.37	3.47	10.73	6.67	60.05
1959	15.38	13.09	5.91	0.94	3.13	1.56	0.16	0.14	3.15	2.15	1.08	4.75	51.44
1960	7.99	8.14	9.39	5.09	6.82	0.09	0.13	0.24	0.12	3.55	13.98	4.96	60.40
1961	8.85	15.96	12.48	4.42	6.63	0.71	0.15	0.40	0.55	5.58	12.49	6.79	75.20
1962	3.12	8.23	10.64	3.61	2.47	0.86	0.12	1.12	1.16	8.59	9.01	4.51	55.44
1963	3.13	5.81	8.48	10.43	7.15	2.24	0.86	0.08	0.86	5.12	12.46	4.93	61.55
1964	13.45	2.26	7.71	2.29	1.57	1.47	1.09	0.69	0.74	1.70	10.87	14.81	58.65
1965	11.83	2.70	1.57	5.75	1.70	0.55	0.15	0.34	0.08	2.18	11.72	13.34	51.89
1966	11.14	5.13	10.67	1.47	0.62	0.35	1.02	0.35	2.45	1.72	10.99	8.52	54.45
1967	13.91	4.05	8.98	6.80	2.72	0.34	0.00	T	1.19	4.84	5.40	8.53	56.76
1968	8.37	7.67	5.85	1.84	2.64	1.66	0.07	4.39	1.63	7.31	9.17	16.91	67.51

Coast Guard personnel taking the observations. In December 1958 it was moved up to Mr. Emmet Anderson's home on 4th Street, where he maintained the weather records until May 1961 when his health made it necessary to relocate the station -- this time to the fire station with the chief of police the designated observer. In November 1963 it was moved to the Bates ranch 1 mile east of Bandon and has remained there ever since. All locations can be considered as being climatologically compatible except that of the Summer Fish home. This, because of its more than 200 feet difference in elevation, may have slightly different precipitation and temperature values. That period of record, however, was very brief and it is doubted that it made significant differences in the averages or extremes contained on the reverse of this sheet. For various reasons temperature records have been incomplete in several years and could not be used. This explains the fact that temperature averages are actually based on 25 years rather than for the entire 27 years since they were resumed in 1941.