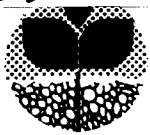


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Climatological Data for Oregon Agricultural Regions

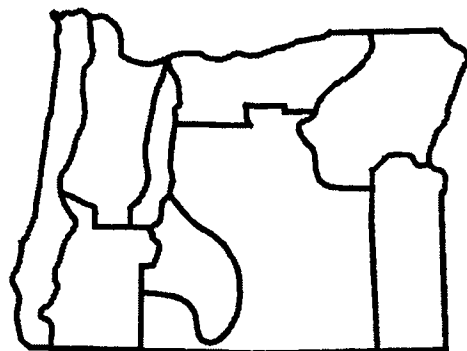
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Climatological Data for Oregon Agricultural Regions



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*Oregon Climate Service
Oregon State University
May 1993*

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Senate Bill 661 of the 1991 session.***

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Climatological Data for Oregon Agricultural Regions

Introduction

Agriculture is Oregon's second largest industry, with gross farm sales of nearly \$2.5 billion in 1989. Due to the diversity of the climate, topography, and vegetation in Oregon, agriculture in the state is a highly diverse industry. Sales totaled at least \$1 million for 87 different commodities in 1989 (Oregon Blue Book, 1992). The top five products included cattle and calves, farm forest products, wheat, nursery products, and dairy products.

Oregon has many different climate regions, ranging from mid-latitude rain forest to high desert. Areas west of the Cascades are dominated by the Pacific Ocean throughout the year; this brings generally wet, cool winters and warm, dry summers to those areas. To the east of the Cascades, however, lie generally dry areas in the 'rain shadow' of the mountain range. Most of the eastern two-thirds of the state receives less than 15 inches of rain per year, with some areas recording as little as 5 inches. This is in stark contrast to the Coast Range, where some locations approach 200 inches in an average year. Temperature and cloud cover differences between west and east are also quite significant.

This climatic diversity is the primary reason for the complexity of Oregon agricultural practices. The agricultural community has been aware of this for many years and has paid careful attention to climate data and long-term trends.

In 1980, a publication with the same title as this document was published by the OSU Agricultural Experiment Station (Bates, 1980). Long-term data for 17 stations in Oregon were included in the report. This report serves as an update of that publication, although several of the stations have been changed to obtain a more representative sampling of agricultural regions. Data for the period 1961-90 were used for each station included here.

Figure 1 is a map showing the 9 Oregon climatic zones, as well as the stations for which data are presented later. Two of the zones have no stations included: the Northern Cascades (Zone 4) and the High Plateau (Zone 5). The relatively high elevations of these zones causes them to be of minor importance in most aspects of agriculture (with the exception of forestry).

Table 1 lists the locations, elevations, and other pertinent data for the stations in this document. Most of the stations are Agricultural Experiment Stations or National Weather Service offices. The others are public or private agencies who record weather data for the National Weather Service's cooperative observation program.

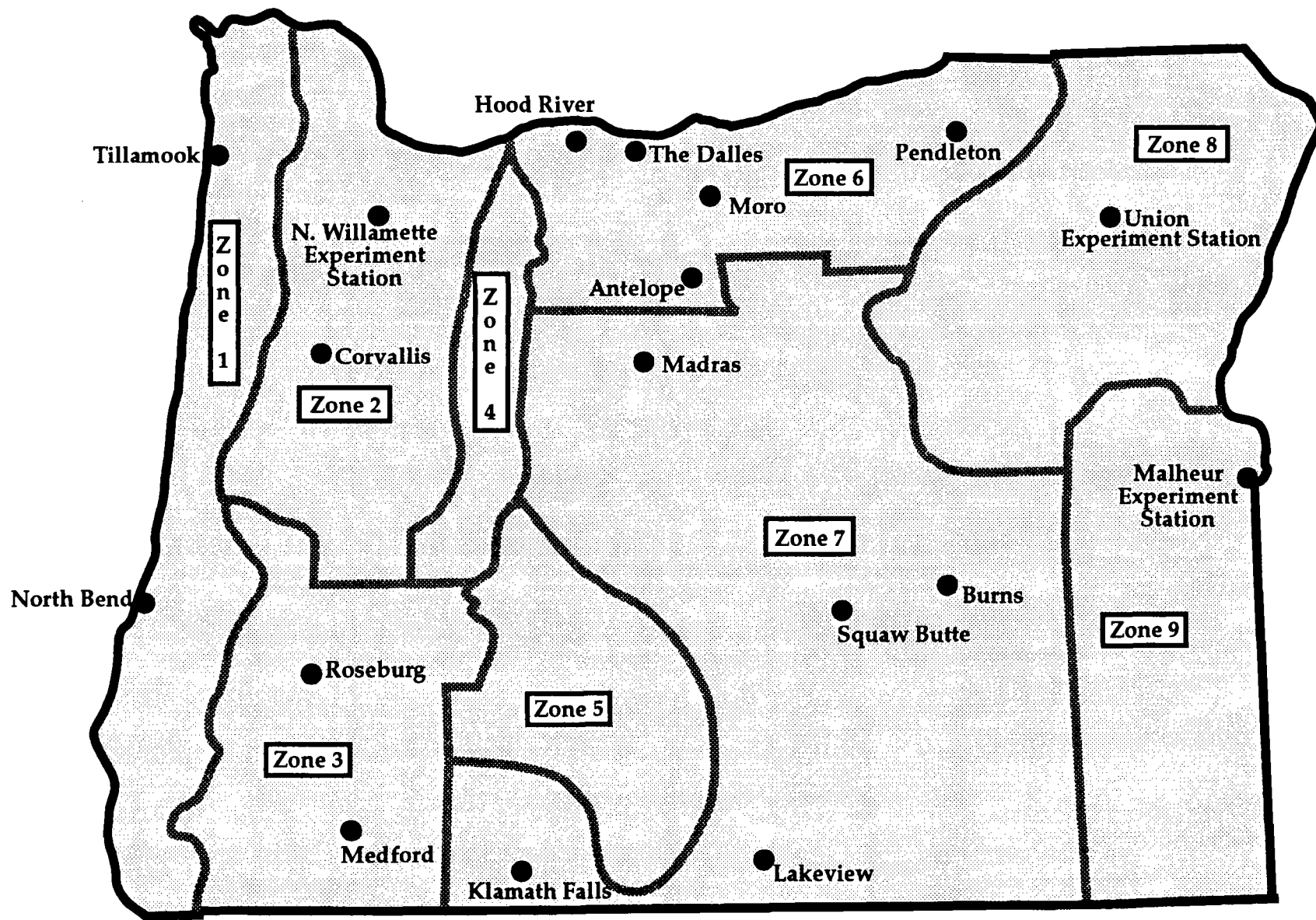


Figure 1. Oregon Climatic Zones and Location of Individual Climate Stations

Table 1. Station Information for Climate Stations

Station Name	Station No.	Latitude (N)		Longitude (W)		Elevation (ft. MSL)	County	Agency
		Degrees	Minutes	Degrees	Minutes			
Burns	351175	43	34	118	57	4140	Harney	National Weather Service
Corvallis	351862	44	37	123	12	230	Benton	OSU Ag Experiment Station
Hood River	354003	45	40	121	31	500	Hood River	OSU Ag Experiment Station
Klamath Falls	354506	42	12	121	46	4100	Klamath	Pacific Power and Light
Lakeview	354670	42	13	120	22	4780	Lake	Radio Station KQIK
Madras	355139	44	37	121	7	2230	Jefferson	City of Madras
Malheur Expt. Stn.	355160	43	58	117	1	2240	Malheur	OSU Ag Experiment Station
Medford	355429	42	22	122	52	1310	Jackson	National Weather Service
Moro	355734	45	28	120	43	1870	Sherman	OSU Ag Experiment Station
North Bend	356073	43	25	124	15	10	Coos	National Weather Service
N. Willamette Expt. Stn.	356151	45	16	122	45	150	Clackamas	OSU Ag Experiment Station
Pendleton	356546	45	40	118	51	1490	Umatilla	National Weather Service
Squaw Butte	358029	43	28	119	43	4660	Harney	OSU Ag Experiment Station
The Dalles	358407	45	36	121	12	100	Wasco	The Dalles Fire Department
Tillamook	358494	45	27	123	52	10	Tillamook	Radio Station KTIL
Union	358746	45	13	117	52	2770	Union	OSU Ag Experiment Station

While this report should answer many climate-related questions regarding various regions in Oregon, more specific information may be needed. Currently there are approximately 250 cooperative stations in Oregon which record daily precipitation and, in many cases, temperature. Additional data sites are operated by several Federal agencies, including the Soil Conservation Service, the Bureau of Land Management, and the U.S. Forest Service. Should the reader require more detailed information for stations in this document or for other locations in Oregon, please contact:

Oregon Climate Service
316 Strand Ag Hall
Oregon State University
Corvallis, Oregon 97331
Phone: (503) 737-5705
Fax: (503) 737-2540

We hope that this publication is of use to you. Please contact us if we can be of service.

George H. Taylor
State Climatologist

Burns, Oregon

Latitude: 43° 35'

Longitude: 118° 57'

Elevation: 4140

County: Harney

Station Number: 351175

Agency: National Weather Service

Station History:

Latitude	Longitude	Elevation	Start Date	End Date
43° 35'	119° 03'	4206	10/1/03	4/1/16
43° 35'	119° 03'	4206	3/1/17	4/1/21
43° 35'	119° 03'	4206	12/13/30	1/30/38
43° 35'	119° 03'	4154	1/30/38	9/1/42
43° 35'	119° 03'	4143	9/1/42	1/1/48
43° 35'	119° 03'	4140	1/1/48	6/1/50
43° 35'	119° 03'	4150	6/1/50	9/30/51
43° 35'	119° 03'	4150	10/1/51	5/1/52
43° 35'	119° 03'	4150	5/1/52	12/1/56
43° 35'	119° 03'	4150	1/1/57	1/1/58
43° 35'	119° 03'	4150	1/1/58	1/1/66
43° 35'	119° 03'	4140	1/1/66	1/1/70
43° 35'	119° 03'	4140	1/1/70	2/1/80
43° 35'	118° 57'	4140	2/1/80	1/1/84
43° 35'	118° 57'	4140	1/1/84	present

Monthly Means and Extremes
Burns, Oregon

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Mean Temperature (°F)													
Maximum	35.0	41.7	48.4	56.7	65.9	75.1	84.6	83.1	73.9	62.2	46.0	35.9	59.0
Minimum	15.1	20.7	25.4	29.2	37.1	44.3	50.3	48.4	39.5	31.0	23.5	16.1	31.7
Mean	25.1	31.2	37.0	43.2	51.6	59.8	67.5	65.7	56.7	46.5	34.8	26.0	45.4
Extreme Temperature (°F)													
Maximum	57	62	71	84	94	95	100	102	97	86	68	54	102
Minimum	-27	-28	4	14	20	23	25	28	17	7	-13	-28	-28
Precipitation (inches)													
Monthly mean	1.53	1.11	1.28	.70	.91	.68	.38	.52	.52	.77	1.47	1.70	11.57
Extreme 24 hr.	.56	.81	.71	.52	.69	.62	.81	.99	.74	.75	.62	.67	.99
Average number of days													
Temperature													
Maximum 90° or more					.4	1.6	8.5	7.3	1.2				18.9
Maximum 32° or less	12.8	6.8	.4								3.7	12.0	35.7
Minimum 32° or less	30.1	26.3	25.8	20.1	9.7	2.6	.6	.4	8.4	22.5	26.9	30.4	203.7
Minimum 0° or less	5.3	2.2									1.1	5.1	13.7
Precipitation													
.01 inches or more	9.1	9.1	13.6	8.0	8.5	6.1	2.6	3.7	4.5	5.9	11.5	9.7	92.3
.10 inches or more	2.8	3.9	6.4	2.9	3.6	2.0	1.3	1.3	2.0	2.7	4.9	4.5	38.2
.50 inches or more	.1	.3	.6	.2	.4	.3	.4	.2	.3	.4	.2	.3	3.6
1.00 inches or more													
Degree Days													
Heating days @ 65°F	1239	955	871	659	423	193	50	76	262	576	908	1209	7421
Growing days @ 50°F	0	0	2	21	125	292	542	488	233	49	0	0	1752

Total Monthly Precipitation (in inches)
Burns, Oregon

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1961	.69	1.22	1.76	.21	.82	.83	.36	.12	.61	.92	.99	2.24	10.77
1962	.77	2.13	1.22	.23	1.32	.04	.01	.09	.33	3.68	1.23	1.02	12.07
1963	1.42	1.15	1.15	2.10	2.31	.83	.28	.25	1.20	.32	1.86	1.02	13.89
1964	2.09	.25	.85	.58	.78	1.93	.53	1.21	.06	.26	2.02	5.47	16.03
1965	2.40	.22	.19	1.28	.75	1.93	.52	1.10	.00	.14	1.75	.82	11.10
1966	.79	.73	.77	.15	.18	1.15	.22	.63	.80	.33	2.03	1.98	9.76
1967	2.15	.42	2.44	1.31	.71	.84	.02	.01	.32	1.22	.81	1.03	11.28
1968	.99	1.63	.13	.09	1.14	.21	.00	1.73	.03	.73	2.22	1.83	10.73
1969	3.17	1.47	.31	.45	.30	1.33	.00	.00	.22	1.03	.46	3.10	11.84
1970	5.73	.72	.45	.23	.66	.43	.02	.00	.22	1.21	3.20	2.53	15.40
1971	1.77	.46	2.02	.33	2.02	.98	1.14	.00	.57	.51	1.62	2.06	13.48
1972	2.07	.97	1.83	.17	.31	.40	.01	.33	.47	.31	1.31	2.11	10.29
1973	1.37	.45	.43	.15	1.06	.04	.00	.31	.63	.62	2.69	2.45	10.20
1974	.85	.82	2.42	.72	.09	.01	.59	.10	.00	.35	.11	1.36	7.42
1975	1.54	1.78	1.71	1.22	.05	.38	.58	.19	.07	1.35	.82	1.64	11.33
1976	1.49	1.46	.45	.59	.37	.66	.55	1.97	.51	.11	.30	.00	8.46
1977	.69	.45	.27	.16	1.67	.41	.51	.29	1.11	.44	2.09	2.31	10.40
1978	2.54	1.42	1.56	1.88	.18	.44	.45	.56	1.11	.00	1.21	.54	11.89
1979	2.96	1.74	.99	.82	.81	.21	.03	1.99	.56	1.03	1.93	1.62	14.69
1980	1.58	2.01	.61	.57	1.08	.85	.26	.03	.56	.88	.59	1.36	10.38
1981	.79	.91	1.62	.84	2.14	.47	.23	.18	.54	1.34	2.62	3.88	15.56
1982	1.15	1.70	.78	.90	.64	.90	.41	.35	1.06	1.43	1.09	2.56	12.97
1983	1.04	2.13	3.66	1.10	1.54	.31	1.09	.70	.06	1.08	2.44	3.09	18.24
1984	.21	.76	1.71	.80	1.04	.88	.49	1.16	.05	1.02	2.73	.87	11.72
1985	.09	.49	1.03	.34	1.37	.11	.92	.09	1.12	.81	.97	.73	8.07
1986	1.41	3.50	1.33	.12	.53	.26	.37	.04	2.13	.34	.30	.28	10.61
1987	1.30	1.00	1.54	.75	.56	1.50	1.22	.16	.02	M	M	M	M
1988	M	.19	.64	1.22	.55	.96	.04	.23	.41	.00	2.58	1.01	7.83
1989	.65	.80	3.15	1.12	1.02	1.06	.70	1.14	.78	.37	.48	.07	11.34
1990	.61	.24	M	.52	1.32	.12	.00	.69	.08	.52	.31	.26	4.67
Mean	1.53	1.11	1.28	.70	.91	.68	.39	.52	.52	.77	1.47	1.70	11.46
Maximum	5.73	3.50	3.66	2.10	2.31	1.93	1.22	1.99	2.13	3.68	3.20	5.47	18.24
Minimum	.09	.19	.13	.09	.05	.01	.00	.00	.00	.00	.11	.00	4.67
StdDev	1.12	.75	.88	.53	.60	.53	.36	.60	.49	.71	.89	1.22	2.86

Dates of Spring and Fall Low Temperatures Burns, Oregon

Year	Last Date in Spring of Low Temperatures (°F)				First Date in Fall of Low Temperatures (°F)			
	24	28	32	36	24	28	32	36
1961	23-Apr	4-May	27-May	27-May	20-Oct	22-Sep	3-Sep	3-Sep
1962	30-Apr	4-Jun	5-Jun	2-Jul	7-Oct	29-Sep	28-Sep	27-Aug
1963	22-Apr	1-May	22-Jun	29-Jun	26-Oct	23-Oct	13-Oct	7-Oct
1964	23-May	23-May	26-May	27-Jun	17-Oct	16-Oct	29-Aug	19-Aug
1965	17-May	17-May	27-Jun	27-Jun	17-Sep	17-Sep	16-Sep	29-Aug
1966	20-Apr	23-May	4-Jun	3-Jul	14-Oct	9-Oct	12-Sep	30-Aug
1967	29-Apr	12-May	14-May	3-Jun	26-Oct	6-Oct	12-Sep	12-Sep
1968	24-Apr	7-May	22-May	29-Jun	8-Oct	22-Sep	20-Sep	21-Aug
1969	30-Apr	3-May	3-May	27-Jun	12-Oct	3-Oct	4-Sep	4-Sep
1970	11-May	14-May	14-May	11-Jun	14-Sep	14-Sep	9-Sep	9-Sep
1971	17-May	20-May	20-May	10-Jul	27-Sep	18-Sep	17-Sep	3-Sep
1972	30-Apr	1-May	11-Jun	21-Jul	25-Sep	20-Sep	20-Sep	17-Aug
1973	28-Apr	18-Jun	18-Jun	18-Jun	3-Oct	2-Oct	26-Sep	1-Sep
1974	15-May	15-May	8-Jun	26-Jun	7-Oct	6-Oct	27-Sep	20-Aug
1975	25-May	25-May	25-May	26-Jun	8-Oct	8-Oct	7-Oct	24-Aug
1976	23-Apr	20-May	26-Jun	1-Jul	18-Oct	17-Oct	4-Oct	26-Aug
1977	4-May	8-May	28-May	2-Jun	3-Nov	8-Oct	17-Sep	27-Aug
1978	21-Apr	25-May	26-May	15-Jun	22-Oct	22-Oct	17-Sep	17-Aug
1979	19-Apr	29-May	29-May	2-Jul	10-Nov	26-Oct	20-Oct	16-Oct
1980	3-Jun	4-Jun	27-Jun	27-Jun	17-Oct	29-Aug	4-Aug	4-Aug
1981	8-May	8-Jul	8-Jul	8-Jul	23-Sep	21-Sep	20-Sep	25-Aug
1982	5-May	8-Jun	8-Jun	16-Jul	2-Oct	11-Sep	2-Aug	2-Aug
1983	14-Apr	13-May	18-Jun	10-Jul	20-Sep	19-Sep	9-Sep	5-Sep
1984	28-Apr	1-Jun	8-Jun	22-Jun	23-Sep	22-Sep	21-Sep	1-Sep
1985	12-May	30-May	26-Jun	30-Jun	28-Sep	11-Sep	9-Sep	8-Aug
1986	22-May	5-Jul	17-Jul	17-Jul	11-Oct	23-Sep	10-Sep	10-Sep
1987	19-May	1-Jun	2-Jun	16-Jul	16-Sep	16-Sep	16-Sep	16-Aug
1988	2-May	19-May	6-Jul	7-Jul	17-Sep	12-Sep	8-Sep	16-Aug
1989	19-May	29-May	21-Jun	21-Jun	4-Oct	10-Sep	31-Aug	31-Aug
1990	25-May	13-Jun	3-Jul	3-Jul	6-Oct	5-Oct	16-Sep	19-Aug

Probabilities

10	20-Apr	3-May	19-May	10-Jun	17-Sep	11-Sep	30-Aug	15-Aug
20	23-Apr	11-May	25-May	20-Jun	23-Sep	15-Sep	7-Sep	17-Aug
Median (50%)	3-May	23-May	8-Jun	29-Jun	7-Oct	22-Sep	16-Sep	27-Aug
80	19-May	4-Jun	26-Jun	8-Jul	18-Oct	8-Oct	26-Sep	4-Sep
90	23-May	13-Jun	3-Jul	16-Jul	26-Oct	17-Oct	4-Oct	10-Sep

Corvallis, Oregon

Latitude: 44° 38'

Longitude: 123° 12'

Elevation: 230 ft.

County: Benton

Station Number: 351862

Agency: Oregon State University Agricultural Experiment Station

Station History:

Latitude	Longitude	Elevation	Start Date	End Date
44° 34'	123° 17'	275	4/1/1889	7/30/1889
44° 34'	123° 17'	275	10/24/1889	10/15/17
44° 34'	123° 17'	275	10/15/17	7/1/48
44° 34'	123° 17'	260	7/1/48	5/24/52
44° 38'	123° 12'	210	5/24/52	9/1/60
44° 38'	123° 12'	210	9/1/60	10/1/70
44° 38'	123° 12'	230	10/1/70	7/1/74
44° 38'	123° 12'	230	7/1/74	present

Monthly Means and Extremes
Corvallis, Oregon

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Mean Temperature (°F)													
Maximum	45.5	50.4	54.9	59.5	66.1	73.1	80.2	81.1	75.5	64.3	52.2	45.6	62.4
Minimum	32.9	35.4	37.0	38.8	43.0	48.5	50.9	51.2	47.7	41.6	37.8	34.1	41.6
Mean	39.3	42.8	46.0	49.3	54.6	60.9	65.7	66.2	61.6	53.0	45.2	39.8	52.0
Extreme Temperature (°F)													
Maximum	64	68	76	83	96	98	103	108	103	92	72	66	108
Minimum	9	7	12	24	28	33	38	37	32	22	15	-7	-7
Precipitation (inches)													
Monthly mean	6.82	5.04	4.55	2.56	1.95	1.20	.55	.87	1.51	3.11	6.77	7.72	42.67
Extreme 24 hr.	1.42	1.15	.98	.61	.58	.45	.29	.35	.62	.78	1.39	1.60	1.60
Evaporation in inches			1.97	3.09	4.74	6.18	7.92	7.31	5.21	2.41			38.82
Average number of days													
Temperature													
Maximum 90° or more					.1	1.1	5.1	4.9	2.0	.1			13.3
Maximum 32° or less	1.2	.2									.2	1.5	3.1
Minimum 32° or less	14.8	9.9	6.6	3.3	.4					1.7	6.1	12.2	55.0
Minimum 0° or less												.2	.2
Precipitation													
.01 inches or more	19.4	17.3	18.2	15.3	11.9	7.4	3.3	4.2	7.5	12.7	19.7	20.8	157.6
.10 inches or more	12.9	11.0	11.8	7.6	5.6	3.6	1.5	2.3	3.7	7.4	13.3	13.2	93.9
.50 inches or more	4.6	3.6	2.5	1.1	.8	.5	.2	.4	.8	2.2	5.0	5.3	27.0
1.00 inches or more	1.5	.8	.5	.1	.1	.1		.1	.1	.3	1.4	1.9	7.0
Degree Days													
Heating days @ 65°F	798	627	590	471	329	153	57	47	129	373	596	783	4954
Growing days @ 50°F	3	6	18	58	162	327	485	501	350	123	16	4	2052

Total Monthly Precipitation (in inches)
Corvallis, Oregon

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1961	4.80	9.91	7.46	2.23	2.05	.41	.59	.33	1.18	3.84	5.79	5.58	44.17
1962	1.21	3.82	6.37	2.90	2.31	.39	.00	.57	1.60	4.62	7.89	2.90	34.58
1963	1.64	5.23	6.30	4.64	3.94	.96	.52	.65	.94	2.77	7.04	3.91	38.54
1964	11.68	.79	4.33	1.61	.55	.88	.57	.23	.31	1.25	9.23	13.27	44.70
1965	11.45	1.56	.59	2.00	1.08	.52	.39	.98	.04	2.12	8.70	7.69	37.12
1966	10.21	1.78	7.21	.95	.49	.76	.49	.27	1.71	3.18	5.27	7.67	39.99
1967	9.50	1.78	4.23	1.60	.85	.77	.00	.00	.84	6.19	3.46	6.32	35.54
1968	7.14	7.11	3.91	1.51	3.45	.79	.34	5.24	1.99	6.32	6.52	14.42	58.74
1969	9.35	4.27	1.81	1.94	1.64	2.46	.05	.00	3.62	3.91	2.86	11.59	43.50
1970	15.51	5.97	2.29	2.66	1.12	.53	.12	.00	1.07	4.04	7.30	12.47	53.08
1971	10.71	5.35	6.16	4.38	2.33	2.48	.02	.48	3.10	2.80	9.21	10.13	57.15
1972	10.10	5.13	6.46	4.27	2.36	1.01	.08	.24	2.28	.88	4.92	9.33	47.06
1973	5.56	1.65	3.63	1.75	.85	1.38	.02	.70	2.52	2.70	18.28	12.40	51.44
1974	11.59	7.52	8.87	2.39	1.46	.61	1.81	.00	.07	1.41	6.88	8.15	50.76
1975	4.66	5.48	4.64	2.40	2.07	1.14	.62	1.68	.00	4.30	5.51	6.47	38.97
1976	6.59	6.71	4.45	1.98	1.14	.47	.90	2.08	1.27	1.25	1.42	1.47	29.73
1977	.96	2.97	5.09	1.02	3.43	1.13	.12	1.89	3.58	2.58	8.11	11.03	41.91
1978	7.34	4.28	2.15	4.94	3.61	.94	.29	2.34	3.40	.98	3.14	4.23	37.64
1979	2.57	8.35	2.89	2.93	2.11	.38	.43	2.67	2.15	7.21	4.11	6.26	42.06
1980	6.69	3.88	4.02	3.63	1.46	1.75	.24	.01	.96	1.87	6.29	11.33	42.13
1981	2.27	4.44	3.00	2.37	2.99	2.58	.10	.01	3.09	5.52	6.73	13.98	47.08
1982	7.21	7.12	3.54	4.57	.49	1.51	.43	.28	1.89	3.64	5.51	10.56	46.75
1983	6.91	10.31	8.78	3.01	1.51	1.39	2.55	2.21	.53	1.05	9.93	7.35	55.53
1984	3.26	6.92	3.82	3.41	3.67	4.34	.20	.00	.74	4.65	13.55	4.01	48.57
1985	.25	3.65	4.94	1.05	.94	2.22	.54	.48	.78	3.89	4.69	3.72	27.15
1986	6.53	9.90	3.04	1.84	2.50	.31	1.15	.00	3.56	2.80	8.62	3.50	41.25
1987	8.22	4.50	3.70	1.56	1.40	.29	2.23	.17	.05	.27	3.90	11.42	37.71
1988	7.12	1.70	3.90	3.33	3.84	1.83	.09	.00	.73	.14	10.87	3.97	37.52
1989	4.18	3.21	6.80	1.42	1.46	1.14	.33	.87	.60	2.66	3.90	3.07	29.64
1990	9.50	5.79	2.21	2.38	1.43	1.53	.45	1.72	.83	4.56	4.87	3.54	38.81
Mean	6.69	4.98	4.59	2.59	2.00	1.24	.52	.87	1.47	3.10	6.76	7.62	42.39
Maximum	15.51	10.31	8.87	4.94	3.94	4.34	2.55	5.24	3.62	7.21	18.28	14.42	58.74
Minimum	.25	.79	.59	.95	.49	.29	.00	.00	.00	.14	1.42	1.47	27.15
StdDev	3.77	2.58	2.03	1.14	1.12	.88	.63	1.15	1.17	1.81	3.37	3.83	8.12

Dates of Spring and Fall Low Temperatures Corvallis, Oregon

Year	Last Date in Spring of Low Temperatures (°F)				First Date in Fall of Low Temperatures (°F)			
	24°	28°	32°	36°	24°	28°	32°	36°
1961	22-Jan	26-Feb	10-Apr	26-Apr	17-Nov	6-Nov	8-Oct	22-Sep
1962	27-Feb	13-Mar	10-Apr	4-Jun	25-Dec	25-Dec	23-Nov	5-Oct
1963	30-Jan	13-Mar	2-Apr	13-May	13-Dec	29-Nov	19-Oct	19-Oct
1964	26-Feb	17-Apr	6-May	14-May	17-Dec	6-Nov	17-Oct	16-Oct
1965	***	19-Mar	6-May	14-May	16-Dec	13-Dec	25-Nov	19-Sep
1966	***	3-Mar	27-Apr	1-Jun	***	***	13-Oct	12-Oct
1967	***	6-Mar	30-Apr	10-May	16-Dec	12-Dec	23-Nov	20-Oct
1968	13-Apr	19-Apr	24-Apr	12-Jun	20-Dec	15-Nov	4-Nov	4-Oct
1969	7-Feb	14-Mar	20-Apr	4-May	28-Nov	27-Nov	26-Nov	6-Oct
1970	6-Jan	2-Apr	7-May	13-May	***	29-Oct	7-Oct	14-Sep
1971	2-Mar	8-Mar	24-Apr	21-May	6-Nov	28-Oct	17-Oct	23-Sep
1972	4-Feb	29-Mar	30-Apr	10-May	4-Dec	30-Oct	27-Sep	26-Sep
1973	27-Jan	19-Feb	30-Apr	1-Jun	***	3-Nov	2-Nov	2-Oct
1974	13-Jan	9-Mar	12-Apr	30-May	***	30-Nov	8-Oct	5-Oct
1975	***	6-Apr	20-May	21-May	***	12-Nov	31-Oct	31-Oct
1976	5-Feb	12-Mar	23-Apr	13-Jun	28-Nov	26-Nov	20-Oct	19-Oct
1977	4-Feb	14-Mar	18-Apr	12-May	***	8-Nov	4-Nov	27-Oct
1978	***	3-Jan	5-May	23-May	12-Nov	26-Oct	22-Oct	22-Oct
1979	3-Feb	3-Feb	22-Mar	7-Jun	***	15-Nov	14-Nov	17-Oct
1980	31-Jan	12-Feb	3-Apr	16-May	***	8-Dec	11-Nov	22-Oct
1981	***	5-Mar	6-Apr	12-May	***	30-Dec	21-Oct	11-Oct
1982	11-Feb	11-Feb	29-Apr	26-May	30-Dec	11-Nov	2-Nov	20-Oct
1983	***	5-Feb	14-Apr	10-May	21-Dec	20-Dec	16-Oct	1-Oct
1984	21-Jan	4-Feb	6-May	16-May	19-Dec	6-Dec	26-Nov	24-Sep
1985	5-Feb	11-May	12-May	14-May	13-Nov	12-Nov	13-Oct	30-Sep
1986	***	10-Feb	24-Apr	16-May	***	10-Dec	10-Nov	13-Oct
1987	17-Jan	27-Mar	19-Apr	19-May	26-Dec	24-Dec	29-Nov	16-Oct
1988	3-Jan	23-Feb	25-Apr	3-May	18-Dec	17-Dec	28-Oct	18-Sep
1989	9-Feb	16-Feb	20-Mar	18-May	***	2-Nov	15-Oct	18-Sep
1990	19-Feb	13-Mar	8-May	25-May	20-Dec	19-Dec	7-Oct	6-Oct

Probabilities

10%	***	4-Feb	2-Apr	9-May	16-Nov	29-Oct	7-Oct	18-Sep
20%	***	11-Feb	10-Apr	11-May	2-Dec	5-Nov	13-Oct	23-Sep
Median (50%)	28-Jan	8-Mar	24-Apr	17-May	20-Dec	26-Nov	25-Oct	6-Oct
80%	9-Feb	27-Mar	6-May	30-May	***	17-Dec	15-Nov	19-Oct
90%	26-Feb	7-Apr	7-May	4-Jun	***	24-Dec	25-Nov	22-Oct

*** Did not occur

Hood River, Oregon

Latitude: 45° 40'

Longitude: 121° 31'

Elevation: 500 ft.

County: Hood River

Station Number: 354003

Agency: Oregon State University Agricultural Experiment Station

Station History:

Latitude	Longitude	Elevation	Start Date	End Date
45° 40'	121° 31'	820	1/1/1884	12/31/1899
45° 42'	121° 30'	243	3/11/1900	5/6/04
45° 42'	121° 30'	243	5/9/04	6/30/07
45° 41'	121° 31'	300	7/1/07	5/15/23
45° 41'	121° 31'	275	5/15/23	11/30/26
45° 41'	121° 31'	500	12/1/26	8/4/41
45° 41'	121° 31'	500	8/4/41	7/1/48
45° 41'	121° 31'	500	7/1/48	8/1/59
45° 41'	121° 31'	500	8/1/59	10/1/65
45° 41'	121° 31'	500	10/1/65	1/1/68
45° 41'	121° 31'	500	2/1/68	8/1/72
45° 41'	121° 31'	500	8/1/72	present

Monthly Means and Extremes
Hood River, Oregon

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Mean Temperature (°F)													
Maximum	40.6	46.8	53.7	60.0	67.5	74.2	80.1	80.5	74.0	63.4	49.3	41.3	60.9
Minimum	28.2	31.2	34.4	38.4	43.8	50.0	53.4	52.8	45.8	38.1	34.4	29.4	40.0
Mean	34.4	39.0	44.1	49.2	55.6	62.1	66.8	66.6	59.9	50.8	41.9	35.3	50.5
Extreme Temperature (°F)													
Maximum	62	66	76	88	102	104	104	108	99	88	68	66	108
Minimum	-6	-5	14	25	28	32	37	36	26	19	-5	-10	-10
Precipitation (inches)													
Monthly mean	5.36	3.91	2.93	1.63	.95	.69	.25	.59	1.14	2.20	5.11	6.00	30.76
Extreme 24 hr.	2.45	2.59	1.75	1.20	.88	1.74	.87	1.27	1.73	2.67	1.83	3.05	3.05
Average number of days													
Temperature													
Maximum 90° or more					.6	2.3	5.4	6.0	1.3				15.6
Maximum 32° or less	5.0	1.2									.6	3.9	10.7
Minimum 32° or less	20.5	15.5	11.8	5.1	.8	.1			.7	6.5	11.4	19.9	92.3
Minimum 0° or less	.5	.3										.5	1.2
Precipitation													
.01 inches or more	16.3	13.9	14.3	11.5	8.4	5.6	2.7	3.8	6.0	10.0	18.0	16.8	127.3
.10 inches or more	10.4	9.1	8.1	5.2	3.2	2.0	.7	1.7	2.7	5.5	12.0	11.5	72.1
.50 inches or more	3.8	2.3	1.4	.5	.1	.2	.1	.3	.7	1.2	3.4	3.9	17.9
1.00 inches or more	1.2	.8	.2	.1		.1			.1	.3	.7	1.4	4.8
Degree Days													
Heating days @ 65°F	949	733	649	475	302	138	55	52	176	440	693	920	5581
Growing days @ 50°F	1	1	10	62	194	362	517	514	299	83	6	1	2049

Total Monthly Precipitation (in inches)
Hood River, Oregon

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1961	3.69	9.96	5.62	1.88	.98	.18	.16	.23	1.56	2.62	4.40	6.68	37.96
1962	.66	2.55	5.60	2.80	2.62	.11	.00	1.09	1.67	4.10	6.27	3.29	30.76
1963	1.13	4.09	4.39	2.54	1.22	.20	.16	.07	.76	1.49	6.28	3.55	25.88
1964	8.07	.70	3.15	1.02	.54	1.52	.20	.33	.15	1.48	5.73	14.94	37.83
1965	6.19	1.55	1.13	1.95	1.08	.36	.14	1.20	.04	1.13	5.25	4.17	24.19
1966	7.58	1.41	3.24	.30	.47	.62	.47	.03	.62	2.91	4.21	5.45	27.31
1967	5.99	1.77	2.59	1.45	.11	.26	.01	.00	.61	5.25	2.72	3.57	24.33
1968	3.78	6.91	1.62	.84	1.23	.15	.09	2.64	.80	4.14	6.94	7.09	36.23
1969	7.95	2.45	1.47	1.07	1.05	.92	.03	.07	.86	2.19	1.26	7.13	26.45
1970	12.94	3.52	1.45	1.93	.51	.33	.06	.00	.53	2.43	6.36	6.42	36.48
1971	5.89	2.60	5.96	1.20	.97	1.70	.03	.09	1.92	2.39	4.57	5.28	32.60
1972	8.41	3.30	4.45	2.19	1.24	.72	.06	.27	2.65	.46	4.01	7.48	35.24
1973	3.90	.74	1.12	.58	.63	.54	.02	.35	2.22	2.63	11.09	11.09	34.91
1974	7.31	4.34	3.39	2.89	1.27	.51	1.05	.08	.04	.72	4.57	6.23	32.40
1975	7.20	4.56	3.73	.94	.63	1.25	.26	1.17	.00	4.14	6.16	6.60	36.64
1976	.00	5.97	2.99	2.20	.92	.16	.12	1.12	.68	.82	.92	1.26	17.16
1977	.70	1.70	2.30	.14	1.43	.54	.07	1.98	1.74	2.00	7.08	11.24	30.92
1978	5.16	3.05	.78	2.23	.93	.19	.58	1.17	.55	.52	2.27	3.08	20.51
1979	1.88	6.16	2.44	1.32	.79	.06	.54	1.61	1.11	4.32	3.30	4.19	27.72
1980	8.38	4.88	1.54	2.81	.33	1.83	.03	.15	.68	.64	5.87	9.79	36.93
1981	1.97	4.63	1.02	1.72	1.20	2.72	.19	.00	2.61	1.92	3.77	10.47	32.22
1982	6.26	5.71	1.50	2.33	.25	.48	.15	.32	3.69	5.59	3.52	6.67	36.47
1983	6.04	7.23	5.70	.77	.41	.35	.90	1.34	1.19	.77	7.82	8.32	40.84
1984	2.58	2.93	3.03	1.75	2.16	.49	.00	.01	1.56	3.51	12.66	3.51	34.19
1985	.27	4.87	2.72	1.03	.48	2.03	.10	.56	2.91	2.42	3.28	2.26	22.93
1986	7.10	8.82	2.70	1.63	.38	.07	.17	.09	2.15	1.11	5.36	3.94	33.52
1987	6.56	3.73	3.06	1.06	.95	.22	1.17	.04	.06	.16	1.99	8.99	27.99
1988	5.03	1.07	3.71	1.99	.71	.96	.12	.00	.51	.01	10.80	2.31	27.22
1989	4.30	1.82	4.08	1.33	1.11	.46	.29	1.32	.30	1.24	2.15	2.50	20.90
1990	8.53	4.40	1.45	2.91	2.05	.76	.41	.31	.00	2.96	2.79	2.36	28.93
Mean	5.36	3.91	2.93	1.63	.95	.69	.25	.59	1.14	2.20	5.11	6.00	31.05
Maximum	12.94	9.96	5.96	2.91	2.62	2.72	1.17	2.64	3.69	5.59	12.66	14.94	40.84
Minimum	.27	.70	.78	.14	.11	.06	.00	.00	.00	.01	.92	1.26	20.51
StdDev	2.97	2.34	1.51	.77	.57	.66	.31	.70	.99	1.53	2.82	3.27	5.57

Dates of Spring and Fall Low Temperatures Hood River, Oregon

Year	Last Date in Spring of Low Temperatures (°F)				First Date in Fall of Low Temperatures (°F)			
	24°	28°	32°	36°	24°	28°	32°	36°
1961	28-Jan	5-Apr	20-Apr	4-May	6-Nov	29-Oct	24-Sep	22-Sep
1962	12-Mar	28-Mar	5-May	16-May	24-Dec	24-Nov	5-Oct	9-Sep
1963	13-Mar	2-Apr	21-Apr	16-May	28-Nov	28-Nov	19-Oct	19-Oct
1964	27-Feb	14-May	25-May	28-Jun	14-Nov	18-Oct	3-Oct	9-Sep
1965	19-Mar	3-Apr	6-May	18-May	14-Dec	17-Sep	17-Sep	16-Sep
1966	4-Mar	19-Apr	1-Jun	1-Jun	***	18-Oct	9-Oct	3-Oct
1967	12-Mar	15-Apr	26-Apr	25-May	13-Dec	3-Nov	20-Oct	15-Oct
1968	15-Feb	13-Apr	27-Apr	8-May	19-Dec	15-Nov	2-Oct	2-Oct
1969	12-Mar	25-Mar	4-May	4-May	14-Oct	13-Oct	11-Oct	15-Sep
1970	11-Jan	19-Mar	11-May	14-May	22-Nov	7-Oct	13-Sep	9-Sep
1971	2-Mar	1-Apr	22-Apr	10-May	17-Oct	17-Oct	16-Oct	18-Sep
1972	5-Feb	22-Apr	1-May	25-May	4-Dec	30-Oct	25-Sep	25-Sep
1973	28-Jan	8-Apr	11-May	27-May	***	2-Nov	3-Oct	16-Sep
1974	8-Mar	21-Mar	17-May	31-May	23-Dec	6-Oct	6-Oct	27-Sep
1975	28-Mar	8-Apr	25-May	25-May	18-Nov	16-Nov	7-Nov	27-Oct
1976	6-Mar	2-Apr	3-Jun	26-Jun	27-Nov	18-Oct	12-Oct	4-Oct
1977	28-Jan	16-Mar	12-May	29-May	19-Nov	4-Nov	4-Oct	2-Oct
1978	12-Feb	15-Mar	5-May	30-May	26-Oct	22-Oct	13-Oct	18-Sep
1979	15-Feb	18-Mar	20-Apr	30-May	27-Nov	1-Nov	1-Nov	3-Oct
1980	16-Feb	22-Feb	11-Apr	3-Jun	9-Dec	22-Oct	9-Oct	29-Aug
1981	12-Feb	13-Apr	25-Apr	12-May	***	21-Oct	12-Oct	24-Sep
1982	11-Feb	20-Apr	5-May	19-May	15-Nov	19-Oct	5-Oct	13-Sep
1983	4-Jan	13-Apr	15-Apr	13-May	19-Dec	29-Sep	20-Sep	19-Sep
1984	21-Jan	5-Mar	4-May	1-Jun	6-Dec	5-Dec	24-Sep	24-Sep
1985	18-Feb	26-Mar	12-May	15-May	9-Oct	29-Sep	29-Sep	29-Sep
1986	10-Feb	24-Apr	6-May	22-May	***	10-Nov	12-Oct	14-Sep
1987	26-Feb	30-Mar	20-Apr	20-May	17-Nov	11-Oct	10-Oct	17-Sep
1988	5-Feb	17-Mar	10-Apr	7-May	15-Dec	27-Oct	27-Oct	18-Sep
1989	2-Mar	20-Mar	30-Mar	28-May	11-Dec	29-Oct	15-Oct	3-Oct
1990	19-Feb	25-Mar	27-Mar	8-May	19-Dec	11-Oct	7-Oct	6-Oct

Probabilities

10%	27-Jan	15-Mar	10-Apr	7-May	21-Oct	5-Oct	23-Sep	9-Sep
20%	3-Feb	18-Mar	20-Apr	11-May	14-Nov	11-Oct	28-Sep	14-Sep
Median (50%)	17-Feb	1-Apr	4-May	21-May	27-Nov	22-Oct	8-Oct	23-Sep
80%	8-Mar	13-Apr	12-May	30-May	15-Dec	5-Nov	15-Oct	3-Oct
90%	12-Mar	20-Apr	25-May	1-Jun	19-Dec	16-Nov	20-Oct	6-Oct

*** Did not occur

Klamath Falls, Oregon

Latitude: 44° 12'

Longitude: 121° 47'

Elevation: 4100 ft.

County: Klamath

Station Number: 354506

Agency: Pacific Power and Light

Station History:

Latitude	Longitude	Elevation	Start Date	End Date
44° 38'	121° 56'	4170	1/1/1884	5/1/1887
44° 14'	121° 40'	4169	5/2/1887	1/31/1889
44° 14'	121° 40'	4186	3/1/1894	11/30/1895
44° 14'	121° 40'	4186	12/2/1897	3/12/06
44° 15'	121° 45'	4250	3/12/06	11/30/08
44° 14'	121° 47'	4100	12/1/08	12/31/26
44° 15'	121° 43'	4100	1/1/27	10/10/30
44° 15'	121° 47'	4100	11/1/30	10/1/47
44° 13'	121° 47'	4090	10/1/47	7/1/48
44° 13'	121° 47'	4090	7/1/48	8/1/57
44° 12'	121° 47'	4100	8/1/57	present

Monthly Means and Extremes
Klamath Falls, Oregon

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Mean Temperature (°F)													
Maximum	39.2	45.2	50.6	58.3	67.6	76.5	84.9	83.8	75.9	64.1	47.4	39.2	61.1
Minimum	20.4	24.9	27.8	30.8	38.2	45.6	50.9	49.7	42.8	34.6	27.6	21.7	34.6
Mean	29.8	35.1	39.2	44.8	52.9	61.1	67.9	66.8	59.4	49.4	37.5	30.5	47.9
Extreme Temperature (°F)													
Maximum	59	67	73	87	98	99	102	104	100	88	74	59	104
Minimum	-14	-10	4	10	17	24	30	32	20	11	2	-17	-17
Precipitation (inches)													
Monthly mean	1.81	1.28	1.35	.75	.86	.69	.35	.62	.55	1.07	1.97	2.23	13.53
Extreme 24 hr.	1.82	.97	1.11	.74	.83	.95	1.14	1.25	.88	1.69	1.18	2.58	2.58
Evaporation in inches			5.03	7.30	8.86	10.51	9.60	6.17	4.37				51.85
Average number of days													
Temperature													
Maximum 90° or more					.3	1.9	7.3	6.2	1.1				16.9
Maximum 32° or less	5.3	.9	.2								.9	5.2	12.5
Minimum 32° or less	27.5	23.2	23.2	17.8	7.2	1.0		.1	2.3	12.4	22.0	27.2	164.1
Minimum 0° or less	.9	.2										.8	1.9
Precipitation													
.01 inches or more	10.6	9.4	10.7	6.8	6.1	5.3	2.1	3.4	3.2	5.9	11.3	11.5	86.4
.10 inches or more	4.9	4.0	4.1	2.5	2.7	2.3	.9	1.6	1.6	2.9	6.3	6.3	40.2
.50 inches or more	1.1	.4	.4	.2	.3	.2	.2	.4	.3	.4	.8	1.1	5.7
1.00 inches or more	.2							.1		.1	.1	.2	.7
Degree Days													
Heating days @ 65°F	1086	843	798	607	382	165	48	59	189	485	820	1061	6541
Growing days @ 50°F	0	1	3	33	155	338	550	516	296	81	1	0	1973

Total Monthly Precipitation (in inches)
Klamath Falls, Oregon

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1961	.66	1.92	1.62	.20	1.35	.45	.00	.68	.86	1.76	2.11	2.54	14.15
1962	1.33	1.26	1.03	.23	.95	.06	.07	.34	.55	4.55	1.17	1.58	13.12
1963	1.21	1.16	.57	1.78	.85	1.37	.02	.88	.04	1.25	2.11	.70	11.94
1964	3.83	.15	.54	.25	.72	1.68	.34	.19	.12	.23	2.30	8.93	19.28
1965	2.23	.08	.08	1.62	.36	1.12	.00	2.49	.00	.05	2.69	1.29	12.01
1966	1.15	.29	.82	.48	.38	.92	.47	1.37	.17	.24	3.08	3.07	12.44
1967	2.32	.13	1.58	1.44	1.35	1.03	.00	.00	.04	.83	.53	1.12	10.37
1968	.97	1.44	.55	.17	.73	.40	.04	1.71	.09	.84	2.42	1.64	11.00
1969	4.12	1.08	.32	.45	.85	1.46	.09	.00	.41	2.06	.40	4.69	15.93
1970	4.85	.70	1.21	.29	.38	.20	.14	.00	.00	1.66	3.96	1.46	14.85
1971	1.81	.94	2.87	.50	3.46	.79	.02	.18	.88	.75	1.94	1.65	15.79
1972	3.67	1.30	2.90	.62	.43	.55	.00	.10	.33	1.52	.94	1.81	14.17
1973	1.17	.99	.94	.16	.47	.01	.20	.05	.51	1.82	3.92	2.19	12.43
1974	1.44	1.05	2.21	.92	.13	.06	.60	.26	.00	.53	.70	1.88	9.78
1975	2.14	2.83	2.06	.65	.14	.96	.88	.44	.37	1.70	.80	1.05	14.02
1976	.94	2.00	.57	.11	.23	.28	.31	2.73	.18	.14	.22	.22	7.93
1977	.85	.43	.45	.09	2.01	1.59	.07	.17	2.13	.41	2.39	3.38	13.97
1978	1.21	.64	2.76	1.71	.22	.62	.12	.52	.45	.00	.50	.57	9.32
1979	2.45	1.33	.80	1.39	1.50	.25	.21	1.04	.23	2.94	3.41	1.29	16.84
1980	2.50	2.03	.69	.61	.84	.78	.03	.00	.59	.50	1.04	1.80	11.41
1981	.77	1.93	1.12	1.02	1.11	.18	.01	.00	.42	1.26	4.25	5.87	17.94
1982	.98	2.35	1.84	.65	.25	1.54	.65	.63	.00	1.34	1.71	3.15	15.09
1983	1.07	2.50	2.78	1.44	.56	.36	.51	.73	.52	.78	3.66	5.81	20.72
1984	.23	1.51	1.25	1.10	.51	.74	.40	1.56	.50	1.94	3.69	1.30	14.73
1985	.14	1.20	.95	.29	.39	.68	.95	.08	2.36	.87	1.61	.74	10.26
1986	1.87	4.66	1.48	.18	.89	.69	.11	.00	2.45	.50	.94	.62	14.39
1987	1.50	.58	1.69	.16	.35	.56	2.41	.04	.00	.06	.85	4.02	12.22
1988	2.35	.13	.51	.98	1.17	1.02	.00	.01	.11	.00	4.23	1.23	11.74
1989	1.61	.54	3.02	1.66	.90	.21	.00	.44	1.44	1.10	.82	.43	12.17
1990	2.93	1.14	1.26	1.37	2.17	.22	1.44	1.90	.21	.32	.72	.80	14.48
Mean	1.81	1.28	1.35	.75	.85	.69	.35	.62	.55	1.07	1.97	2.23	13.47
Maximum	4.85	4.66	3.02	1.78	3.46	1.68	2.41	2.73	2.45	4.55	4.25	8.93	20.72
Minimum	.14	.08	.08	.09	.13	.01	.00	.00	.00	.00	.22	.22	7.93
StdDev	1.15	.98	.86	.57	.72	.49	.53	.77	.69	.99	1.30	1.96	2.98

Dates of Spring and Fall Low Temperatures Klamath Falls, Oregon

Year	Last Date in Spring of Low Temperatures (°F)				First Date in Fall of Low Temperatures (°F)			
	24	28	32	36	24	28	32	36
1961	7-May	13-May	27-May	6-Jul	29-Sep	29-Sep	21-Sep	11-Sep
1962	4-Jun	4-Jun	13-Jun	27-Jun	6-Nov	5-Oct	29-Sep	12-Sep
1963	14-May	14-May	29-Jun	8-Jul	31-Oct	27-Oct	7-Oct	20-Aug
1964	4-May	22-May	19-Jun	21-Jun	23-Oct	16-Oct	2-Sep	19-Aug
1965	5-May	20-May	27-Jun	27-Jun	16-Oct	17-Sep	17-Sep	9-Sep
1966	29-Apr	4-Jun	27-Jun	3-Jul	14-Oct	12-Sep	12-Sep	12-Sep
1967	1-May	12-May	2-Jun	8-Jun	14-Oct	6-Oct	3-Oct	12-Sep
1968	6-May	7-May	7-Jun	29-Jun	9-Oct	21-Sep	20-Sep	15-Aug
1969	29-Apr	30-Apr	20-May	29-Jun	6-Oct	3-Oct	3-Oct	5-Aug
1970	12-May	12-May	28-May	30-Jun	13-Sep	13-Sep	13-Sep	5-Sep
1971	21-Apr	20-May	20-May	10-Jul	1-Oct	24-Sep	18-Sep	3-Sep
1972	29-Apr	30-Apr	11-Jun	24-Jun	27-Oct	20-Sep	15-Aug	14-Aug
1973	19-Apr	10-May	18-Jun	22-Jul	24-Sep	6-Sep	1-Sep	1-Sep
1974	16-May	7-Jun	7-Jun	2-Jul	21-Oct	6-Oct	3-Oct	20-Aug
1975	6-May	25-May	25-Jun	30-Jul	23-Oct	14-Oct	31-Aug	31-Aug
1976	23-Apr	28-May	1-Jul	1-Jul	27-Oct	17-Oct	7-Sep	26-Aug
1977	14-Apr	28-May	28-May	2-Jun	9-Nov	21-Oct	30-Sep	21-Sep
1978	15-Mar	24-May	25-May	25-Jun	8-Nov	22-Oct	19-Sep	17-Aug
1979	19-Apr	10-May	7-Jun	2-Jul	29-Oct	21-Oct	20-Oct	16-Oct
1980	31-Mar	24-May	25-May	27-Jun	22-Oct	17-Oct	21-Sep	19-Sep
1981	10-Apr	7-May	16-May	17-Jun	25-Nov	4-Oct	22-Sep	21-Sep
1982	29-Apr	10-May	6-Jun	6-Jun	18-Oct	1-Oct	1-Oct	1-Oct
1983	9-May	9-May	11-May	3-Jul	8-Nov	15-Oct	9-Sep	9-Sep
1984	16-May	16-May	8-Jun	21-Jun	18-Oct	24-Sep	23-Sep	12-Sep
1985	24-Apr	4-May	30-May	24-Jun	9-Oct	9-Oct	8-Oct	10-Sep
1986	22-May	22-May	22-May	5-Jul	11-Nov	12-Oct	21-Sep	9-Sep
1987	19-Apr	1-Jun	1-Jun	16-Jul	15-Nov	10-Nov	16-Aug	15-Aug
1988	23-Apr	29-May	29-Jun	29-Jun	9-Nov	9-Nov	17-Sep	13-Sep
1989	26-Mar	19-May	29-May	30-May	28-Oct	4-Oct	1-Aug	1-Aug
1990	13-Mar	1-Jun	11-Jun	11-Jun	19-Oct	6-Oct	6-Oct	6-Oct

Probabilities

10	30-Mar	6-May	20-May	7-Jun	30-Sep	16-Sep	29-Aug	14-Aug
20	18-Apr	9-May	25-May	20-Jun	9-Oct	23-Sep	6-Sep	18-Aug
Median (50%)	29-Apr	19-May	6-Jun	29-Jun	22-Oct	6-Oct	20-Sep	9-Sep
80	9-May	28-May	20-Jun	5-Jul	8-Nov	17-Oct	3-Oct	14-Sep
90	16-May	1-Jun	27-Jun	10-Jul	9-Nov	22-Oct	6-Oct	22-Sep

Lakeview, Oregon

Latitude: 42° 13'

Longitude: 120° 22'

Elevation: 4780 ft.

County: Lake

Station Number: 354670

Agency: Radio Station KQIK

Station History:

Latitude	Longitude	Elevation	Start Date	End Date
42° 12'	120° 21'	4800	1/1/1884	1/31/12
42° 15'	120° 23'	4950	11/3/12	6/30/31
42° 12'	120° 21'	4746	7/1/31	3/31/43
42° 12'	120° 21'	4756	4/1/43	8/20/44
42° 11'	120° 21'	4756	8/22/44	7/1/48
42° 11'	120° 21'	4770	7/1/48	9/1/51
42° 11'	120° 21'	4770	1/1/51	11/1/76
42° 13'	120° 22'	4780	1/1/76	present

Monthly Means and Extremes
Lakeview, Oregon

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Mean Temperature (°F)													
Maximum	38.1	42.1	47.6	55.7	65.1	73.9	83.7	82.1	74.0	62.7	46.7	39.4	59.2
Minimum	19.2	23.1	26.4	30.6	37.3	44.4	50.3	48.4	41.3	33.2	26.6	20.9	33.5
Mean	28.9	33.2	36.9	42.6	51.5	59.2	66.8	65.2	57.6	47.8	36.5	30.2	46.4
Extreme Temperature (°F)													
Maximum	59	69	74	87	96	101	100	101	98	87	73	62	101
Minimum	15	-9	-4	14	17	26	30	31	20	9	-1	-20	-20
Precipitation (inches)													
Monthly mean	2.02	1.43	1.51	1.22	1.43	1.15	.35	.54	.63	1.20	2.07	2.09	15.64
Extreme 24 hr.	1.78	1.08	1.22	1.15	1.12	1.21	.79	1.00	1.17	2.10	2.02	2.27	2.27
Average number of days													
Temperature													
Maximum 90° or more					.1	1.0	5.4	4.1	.6				11.2
Maximum 32° or less	7.1	2.7	1.0							.1	1.2	6.4	18.6
Minimum 32° or less	27.9	24.5	25.5	19.0	8.3	1.5	.1	.1	3.3	14.4	23.1	27.9	175.5
Minimum 0° or less	1.8	1.0	.1								.1	1.4	4.4
Precipitation													
.01 inches or more	10.9	9.8	10.6	9.0	7.8	5.9	2.6	3.1	4.0	6.3	11.4	11.5	92.9
.10 inches or more	5.3	4.9	5.1	3.8	4.5	3.3	1.1	1.5	1.9	3.5	6.5	6.5	48.0
.50 inches or more	1.0	.5	.5	.4	.6	.5	.2	.3	.2	.4	.8	.8	6.1
1.00 inches or more	.2	.1		.1	.1	.1		.1		.1	.1	.1	.9
Degree Days													
Heating days @ 65°F	1126	908	866	656	432	204	52	79	237	515	855	1076	7006
Growing days @ 50°F	0	0	1	24	120	291	526	472	253	70	1	0	1757

Total Monthly Precipitation (in inches)
Lakeview, Oregon

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
1961	.83	1.34	1.40	.43	1.38	1.01	.01	1.32	.41	1.54	1.20	2.34	13.21
1962	1.49	1.79	1.71	.60	2.59	.05	.00	.29	.53	6.62	1.81	1.42	18.90
1963	1.84	1.90	1.30	2.95	3.42	1.98	.24	.23	.15	1.23	2.67	.94	18.85
1964	3.97	.11	.82	.76	1.35	4.23	.24	.41	.39	.45	2.06	8.96	23.75
1965	2.81	.32	.26	1.38	1.10	3.56	.16	.87	.05	.04	2.79	.89	14.23
1966	1.80	.82	.99	.73	1.14	1.09	.11	.20	.45	.17	3.63	1.78	12.91
1967	3.47	.37	1.78	2.28	1.27	.67	.01	.13	.22	.73	1.32	1.41	13.66
1968	1.86	2.53	.71	.19	2.11	1.46	.00	2.65	.06	.89	3.08	1.80	17.34
1969	5.61	1.33	.72	.89	.34	3.31	.01	.00	.09	2.51	.99	3.86	19.66
1970	5.81	1.09	1.21	.78	.93	2.43	.00	.00	.19	.97	4.59	2.53	20.53
1971	1.46	.59	3.84	1.63	4.12	1.85	.21	.09	1.98	1.07	1.61	1.52	19.97
1972	2.98	2.60	1.70	1.20	.59	.16	.22	.05	1.27	1.52	2.35	2.34	16.98
1973	1.38	1.15	1.84	.87	.88	.02	.18	.33	1.47	1.46	3.59	2.15	15.32
1974	1.90	1.23	2.79	.81	.99	.16	.91	.11	.00	.79	.35	2.61	12.65
1975	1.13	3.15	1.94	2.46	.59	1.04	1.37	.32	.14	2.52	.58	1.61	16.85
1976	1.05	2.27	.37	.74	.32	1.02	1.39	3.04	.25	.48	.18	.01	11.12
1977	.72	.19	.49	.29	2.26	.48	.10	.77	1.01	.45	1.90	3.01	11.67
1978	1.69	.63	1.79	2.96	.65	1.25	.89	.21	.81	.00	.69	.83	12.40
1979	3.04	1.92	.85	1.23	.73	.38	.00	1.33	.11	2.02	2.96	1.42	15.99
1980	3.61	2.54	.31	.71	1.35	.87	.08	.00	.61	1.54	.53	1.79	13.94
1981	1.55	1.13	2.11	1.12	1.86	.73	.16	.00	.55	2.07	4.49	6.31	22.08
1982	.78	1.47	1.78	.52	1.01	1.22	.94	.22	.80	1.71	2.24	2.27	14.96
1983	1.00	2.12	2.76	1.88	1.82	.49	.34	1.19	.56	.93	2.94	4.08	20.11
1984	.20	1.31	1.19	1.16	.82	1.42	.77	1.05	.45	1.98	2.65	.62	13.62
1985	.67	1.22	1.26	.36	.91	.13	.28	.00	1.99	.23	4.12	.10	11.27
1986	1.07	4.71	2.08	.51	2.80	.43	.05	.00	2.73	.61	.81	.90	16.70
1987	2.04	1.28	2.30	1.54	1.69	2.37	1.18	.10	.00	.00	.83	M	13.33
1988	1.77	.24	.37	3.38	.93	.54	.08	.00	.38	.00	4.04	1.33	13.06
1989	1.38	.70	3.12	.59	1.08	.14	.00	.61	.95	.79	.67	.39	10.42
1990	1.70	.71	1.53	1.57	1.96	.10	.70	.68	.31	.57	.37	1.26	11.46
Mean	2.02	1.43	1.51	1.22	1.43	1.15	.35	.54	.63	1.20	2.07	2.09	15.56
Maximum	5.81	4.71	3.84	3.38	4.12	4.23	1.39	3.04	2.73	6.62	4.59	8.96	23.75
Minimum	.20	.11	.26	.19	.32	.02	.00	.00	.00	.00	.18	.01	10.42
StdDev	1.36	1.01	.88	.85	.90	1.10	.44	.75	.67	1.26	1.35	1.85	3.58

Dates of Spring and Fall Low Temperatures **Lakeview, Oregon**

Year	Last Date in Spring of Low Temperatures (°F)				First Date in Fall of Low Temperatures (°F)			
	24	28	32	36	24	28	32	36
1961	22-Apr	5-May	16-May	30-May	29-Sep	29-Sep	21-Sep	2-Sep
1962	29-Apr	20-May	5-Jun	5-Jun	7-Nov	5-Oct	3-Oct	28-Aug
1963	21-Apr	27-Apr	12-May	29-Jun	31-Oct	12-Oct	7-Oct	25-Aug
1964	6-May	7-May	19-Jun	27-Jun	24-Oct	10-Oct	29-Aug	27-Aug
1965	6-May	6-May	23-May	27-Jun	17-Sep	17-Sep	17-Sep	4-Sep
1966	20-Apr	4-Jun	4-Jun	3-Jul	14-Oct	14-Oct	12-Oct	12-Sep
1967	30-Apr	12-May	2-Jun	3-Jun	12-Oct	6-Oct	4-Oct	12-Sep
1968	6-May	6-May	29-Jun	29-Jun	9-Oct	21-Sep	15-Aug	15-Aug
1969	13-Apr	30-Apr	4-May	26-Jun	19-Oct	4-Oct	21-Sep	4-Sep
1970	29-Apr	12-May	12-May	30-Jun	14-Sep	13-Sep	13-Sep	5-Sep
1971	31-May	31-May	31-May	10-Jul	18-Oct	2-Oct	18-Sep	8-Sep
1972	29-Apr	30-Apr	18-May	24-Jun	27-Oct	25-Oct	11-Sep	17-Aug
1973	18-Apr	21-Apr	18-Jun	18-Jun	29-Oct	4-Oct	21-Sep	24-Aug
1974	18-May	20-May	20-May	26-Jun	21-Oct	21-Oct	28-Sep	20-Aug
1975	5-May	25-May	25-May	1-Jul	23-Oct	8-Oct	7-Oct	24-Aug
1976	26-Apr	11-May	1-Jul	1-Jul	3-Oct	3-Oct	16-Sep	8-Aug
1977	15-Apr	18-May	28-May	30-May	3-Nov	30-Sep	21-Sep	31-Aug
1978	4-May	11-Jun	25-Jun	25-Jun	20-Sep	17-Sep	8-Sep	17-Aug
1979	19-Apr	10-May	17-Jun	19-Jun	1-Nov	21-Oct	20-Oct	23-Sep
1980	15-Apr	24-May	27-Jun	10-Jul	17-Oct	17-Oct	30-Aug	27-Aug
1981	7-Apr	14-Jun	7-Jul	13-Jul	5-Oct	5-Oct	20-Sep	20-Sep
1982	21-Apr	5-May	6-Jun	4-Jul	1-Oct	26-Sep	11-Sep	2-Aug
1983	9-May	9-May	19-Jun	20-Jul	14-Oct	3-Oct	9-Sep	9-Sep
1984	28-Apr	16-May	21-Jun	22-Jun	23-Sep	23-Sep	21-Sep	21-Sep
1985	4-May	2-Jun	2-Jun	30-Jun	9-Oct	8-Oct	17-Sep	2-Aug
1986	22-May	22-May	22-May	5-Jul	12-Oct	23-Sep	9-Sep	9-Sep
1987	19-Apr	1-Jun	1-Jun	17-Jul	14-Oct	14-Oct	14-Oct	16-Aug
1988	1-May	29-Jun	29-Jun	29-Jun	9-Nov	18-Sep	18-Sep	12-Sep
1989	19-May	29-May	29-May	2-Jul	4-Oct	4-Oct	3-Oct	24-Aug
1990	13-May	25-May	15-Jun	16-Jun	11-Oct	6-Oct	3-Oct	15-Sep

Probabilities

10	15-Apr	30-Apr	15-May	4-Jun	22-Sep	17-Sep	7-Sep	14-Aug
20	19-Apr	5-May	21-May	18-Jun	2-Oct	23-Sep	10-Sep	17-Aug
Median (50%)	29-Apr	17-May	3-Jun	29-Jun	14-Oct	4-Oct	20-Sep	29-Aug
80	6-May	31-May	21-Jun	4-Jul	27-Oct	12-Oct	3-Oct	12-Sep
90	18-May	4-Jun	29-Jun	10-Jul	1-Nov	17-Oct	7-Oct	15-Sep

Madras, Oregon

Latitude: 44° 38'

Longitude: 121° 08'

Elevation: 2230 ft.

County: Jefferson

Station Number: 355139

Agency: City of Madras

Station History:

Latitude	Longitude	Elevation	Start Date	End Date
44° 42'	121° 07'	2250	2/13/09	12/31/09
44° 42'	121° 07'	2250	7/23/10	2/28/11
44° 39'	121° 09'	2250	1/6/20	7/1/48
44° 38'	121° 08'	2300	7/1/48	4/1/53
44° 38'	121° 08'	2260	4/1/53	10/1/59
44° 38'	121° 08'	2240	10/1/59	11/1/66
44° 38'	121° 08'	2230	11/1/66	present

Monthly Means and Extremes
Madras, Oregon

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Mean Temperature (°F)													
Maximum	42.8	49.5	55.9	62.3	70.8	79.4	87.1	86.6	78.0	66.0	50.7	42.9	64.3
Minimum	23.3	26.3	28.1	31.1	36.7	43.2	46.4	45.8	39.2	32.2	28.8	23.8	33.8
Mean	33.1	37.8	41.8	46.7	53.7	61.2	66.8	66.3	58.7	49.2	39.8	33.3	49.0
Extreme Temperature (°F)													
Maximum	66	74	82	88	101	102	104	106	101	89	75	68	106
Minimum	-31	-18	6	11	16	26	31	29	20	9	-13	-29	-31
Precipitation (inches)													
Monthly mean	1.33	.88	.84	.71	.79	.78	.44	.54	.54	.70	1.52	1.44	10.51
Extreme 24 hr.	1.29	1.13	.62	1.12	1.13	2.14	1.60	.91	.86	.79	1.80	1.45	2.14
Evaporation in inches				5.26	7.25	8.70	10.17	9.06	6.15	3.29	1.80		51.67
Average number of days													
Temperature													
Maximum 90° or more					.8	4.5	11.9	11.0	2.1				30.1
Maximum 32° or less	5.1	1.2									1.0	4.3	11.7
Minimum 32° or less	23.7	20.6	20.8	16.6	9.7	1.4	.2	.3	5.5	16.1	19.0	24.3	158.2
Minimum 0° or less	1.6	.5									.3	1.0	3.4
Precipitation													
.01 inches or more	8.1	7.5	7.1	5.6	5.2	4.5	2.6	3.0	3.7	5.1	8.9	9.1	70.5
.10 inches or more	4.2	2.8	3.0	2.2	2.6	2.2	1.2	1.7	1.5	2.3	4.1	4.4	32.3
.50 inches or more	.5	.3	.1	.1	.2	.3	.2	.3	.2	.1	.6	.7	3.7
1.00 inches or more		.1		.1		.1	.1				.1	.1	.5
Degree Days													
Heating days @ 65°F	988	759	708	527	354	152	52	56	213	496	752	958	6015
Growing days @ 50°F	1	3	11	52	154	340	514	500	265	68	7	2	1917

Total Monthly Precipitation (in inches)
Madras, Oregon

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1961	.67	2.68	1.64	.52	1.16	.79	.05	.33	.00	.49	3.01	1.53	12.87
1962	.62	1.32	1.08	.33	2.37	.41	.00	.85	.26	1.82	1.16	1.41	11.63
1963	1.30	.74	.90	1.88	.86	.68	.20	.12	1.22	.48	1.95	.98	11.31
1964	1.23	.02	.17	.11	.04	1.18	.06	.10	.15	.39	1.36	5.05	9.86
1965	1.46	.15	.09	1.25	.17	1.55	1.19	.81	.17	.23	2.34	.16	9.57
1966	1.54	.28	.37	.00	.06	1.03	2.40	.00	.98	.49	2.31	2.12	11.58
1967	1.27	.12	.40	1.48	.28	.68	.00	.00	.32	.59	.41	.34	5.89
1968	1.02	1.02	.21	.14	1.20	.38	.15	1.53	.54	.80	1.89	2.11	10.99
1969	2.75	.65	.71	.28	1.08	4.56	.00	.00	.67	.96	.27	1.61	13.54
1970	3.36	.38	.66	.16	.13	1.21	.00	.00	.27	.56	1.92	.64	9.29
1971	1.51	.47	.98	.30	1.42	.53	.21	.26	1.07	.56	1.00	.74	9.05
1972	1.01	.39	1.25	.42	.87	1.18	.00	.47	.31	.47	.32	2.28	8.97
1973	.63	.83	.28	.21	.46	.00	.24	.16	1.94	.98	3.23	2.02	10.98
1974	.80	.60	1.64	1.09	.07	.03	.38	.00	.00	.34	.41	1.04	6.40
1975	1.37	1.69	1.44	.44	.64	1.04	.16	1.05	.00	.98	.69	1.17	10.67
1976	.73	.83	.40	1.89	.46	.27	.34	1.96	.32	.23	.53	.05	8.01
1977	.20	.34	.04	.03	1.56	.17	.03	.61	.85	.42	2.77	2.04	9.06
1978	2.41	.57	.87	2.23	.43	.86	.38	1.04	.37	.00	1.04	.31	10.51
1979	1.95	.82	1.10	.67	.27	.20	.00	1.64	.29	2.21	1.82	.35	11.32
1980	2.22	2.13	.44	.82	1.52	1.06	.15	.05	.55	.99	1.20	2.07	13.20
1981	1.62	.81	.93	.22	1.44	.67	.48	.00	1.29	.53	2.62	4.29	14.90
1982	.74	.81	.50	.60	.27	1.07	.85	.93	1.87	2.09	.45	1.23	11.41
1983	1.46	2.43	2.24	1.02	.95	.59	1.63	1.86	.45	1.06	1.66	2.69	18.04
1984	.27	1.35	1.87	.99	.47	1.10	.05	.18	.17	1.27	4.29	.28	12.29
1985	.14	.69	.19	.49	.95	.30	.17	.03	.57	.52	1.14	1.24	6.43
1986	2.11	3.09	.55	.11	.31	.11	.62	.03	1.15	.45	1.25	.76	10.54
1987	1.42	.49	1.16	.16	1.12	.38	2.70	.17	.03	.06	.60	2.54	10.83
1988	1.34	.07	.56	1.46	M	1.21	.00	.00	.27	.00	2.34	.28	M
1989	1.46	.62	2.03	1.63	.69	.12	.17	.94	.09	M	M	M	M
1990	M	.04	.50	.41	1.75	.14	.56	1.20	.00	.27	.21	.41	M
Mean	1.33	.88	.84	.71	.79	.78	.44	.54	.54	.70	1.52	1.44	10.71
Maximum	3.36	3.09	2.24	2.23	2.37	4.56	2.70	1.96	1.94	2.21	4.29	5.05	18.04
Minimum	.14	.02	.04	.00	.04	.00	.00	.00	.00	.00	.21	.05	5.89
StdDev	.75	.79	.60	.63	.59	.84	.69	.62	.53	.56	1.03	1.19	2.60

Dates of Spring and Fall Low Temperatures **Madras, Oregon**

Year	Last Date in Spring of Low Temperatures (°F)				First Date in Fall of Low Temperatures (°F)			
	24	28	32	36	24	28	32	36
1961	25-Apr	24-May	30-Jun	24-Jul	22-Sep	6-Sep	6-Sep	25-Aug
1962	4-May	2-Jun	3-Jul	19-Jul	5-Oct	5-Oct	27-Aug	23-Aug
1963	27-Apr	27-Apr	29-Jul	30-Jul	19-Oct	19-Oct	12-Oct	1-Aug
1964	26-May	26-May	27-Jun	24-Jul	3-Oct	9-Sep	30-Aug	5-Aug
1965	7-May	24-May	27-Jun	22-Jul	17-Sep	17-Sep	29-Aug	28-Aug
1966	17-May	23-May	1-Jun	30-Jun	9-Oct	3-Oct	1-Oct	30-Aug
1967	1-May	25-May	31-May	13-Jun	16-Oct	4-Oct	12-Sep	12-Sep
1968	7-May	8-May	16-May	30-Jun	2-Oct	2-Oct	21-Sep	19-Sep
1969	27-Apr	27-Apr	15-May	28-May	4-Oct	15-Sep	29-Aug	29-Aug
1970	27-Apr	14-May	28-May	16-Jun	13-Sep	9-Sep	9-Sep	8-Sep
1971	17-May	17-May	29-Jun	7-Jul	1-Oct	19-Sep	14-Sep	23-Aug
1972	1-May	25-May	25-May	26-May	27-Sep	25-Sep	10-Sep	10-Sep
1973	30-Apr	26-May	10-Jun	1-Jul	3-Oct	1-Oct	1-Sep	1-Sep
1974	13-May	30-May	8-Jun	12-Jul	4-Oct	3-Oct	12-Sep	7-Aug
1975	6-May	20-May	8-Jun	25-Jun	31-Oct	22-Oct	2-Sep	31-Aug
1976	26-Apr	2-Jun	26-Jun	26-Jun	18-Oct	18-Oct	7-Sep	7-Sep
1977	6-May	6-May	28-May	5-Jul	3-Nov	3-Oct	26-Sep	8-Sep
1978	5-May	22-May	30-May	16-Jun	22-Oct	19-Sep	12-Sep	12-Sep
1979	20-Apr	29-May	7-Jun	1-Jul	10-Nov	21-Oct	3-Oct	10-Sep
1980	11-Apr	30-Apr	4-Jun	10-Jun	22-Oct	9-Oct	21-Aug	15-Aug
1981	14-Apr	12-May	14-Jun	13-Jul	14-Oct	12-Oct	23-Sep	22-Sep
1982	29-Apr	27-May	7-Jun	22-Jul	18-Oct	16-Sep	15-Sep	12-Sep
1983	15-Apr	10-May	19-May	16-Jul	20-Sep	19-Sep	9-Sep	6-Sep
1984	6-May	1-Jun	10-Jun	7-Jul	24-Sep	12-Sep	10-Sep	1-Sep
1985	11-May	12-May	24-Jun	25-Jun	29-Sep	18-Sep	7-Sep	21-Aug
1986	14-May	22-May	22-May	17-Jul	12-Oct	11-Oct	11-Sep	11-Sep
1987	19-Apr	20-Apr	1-Jun	22-Jun	10-Oct	16-Sep	16-Sep	17-Aug
1988	4-May	30-May	6-Jul	6-Jul	18-Nov	17-Sep	11-Sep	8-Sep
1989	26-Mar	28-May	28-May	21-Jun	M	M	3-Sep	31-Aug
1990	9-May	15-May	3-Jul	3-Jul	6-Oct	6-Oct	6-Oct	13-Sep

Probabilities

10	14-Apr	29-Apr	21-May	12-Jun	21-Sep	11-Sep	29-Aug	14-Aug
20	24-Apr	9-May	28-May	20-Jun	28-Sep	16-Sep	1-Sep	22-Aug
Median (50%)	2-May	22-May	7-Jun	2-Jul	6-Oct	1-Oct	10-Sep	1-Sep
80	9-May	28-May	27-Jun	17-Jul	20-Oct	9-Oct	21-Sep	11-Sep
90	14-May	30-May	3-Jul	22-Jul	31-Oct	18-Oct	1-Oct	12-Sep

M = Missing

Malheur Experiment Station, Oregon

Latitude: 43° 59'

Longitude: 117° 01'

Elevation: 2230 ft.

County: Malheur

Station Number: 355160

Agency: Oregon State Agricultural Experiment Station

Station History:

Latitude	Longitude	Elevation	Start Date	End Date
43° 59'	117° 04'	2251	7/20/42	3/21/48
43° 59'	117° 04'	2251	3/21/48	7/1/48
43° 58'	117° 01'	2250	7/1/48	5/1/56
43° 59'	117° 01'	2230	5/1/56	6/1/59
43° 59'	117° 01'	2230	6/1/59	11/1/71
43° 59'	117° 01'	2240	11/1/71	2/1/78
43° 59'	117° 01'	2240	2/1/78	9/1/79
43° 59'	117° 01'	2230	9/1/79	present

Monthly Means and Extremes
Malheur Experiment Station, Oregon

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Mean Temperature (°F)													
Maximum	33.7	42.8	54.4	63.9	73.4	82.7	91.3	89.7	78.5	65.0	47.8	35.7	63.2
Minimum	18.5	24.7	31.0	37.1	45.0	52.8	58.1	55.8	45.9	35.8	28.7	20.7	37.8
Mean	26.1	33.7	42.7	50.5	59.2	67.8	74.7	72.8	62.2	50.4	38.2	28.2	50.5
Extreme Temperature (°F)													
Maximum	60	66	79	91	100	104	105	108	98	87	77	62	108
Minimum	-26	-24	5	22	27	34	36	39	25	19	-5	-21	-26
Precipitation (inches)													
Monthly mean	1.26	.93	.98	.73	.81	.80	.29	.55	.54	.67	1.26	1.37	10.19
Extreme 24 hr.	.90	.78	1.37	.80	.69	.82	.67	1.22	.81	1.03	.71	.91	1.37
Evaporation in inches				5.85	8.08	9.22	11.40	9.85	6.36	3.13			53.91
Average number of days													
Temperature													
Maximum 90° or more				.1	1.3	7.4	20.4	18.3	4.0				51.5
Maximum 32° or less	12.7	3.2	.1								.8	9.1	25.9
Minimum 32° or less	28.4	24.0	19.3	8.4	1.1				.9	10.2	21.1	28.1	141.6
Minimum 0° or less	2.7	.9									.1	2.1	5.8
Precipitation													
.01 inches or more	9.0	7.8	8.3	6.3	6.2	5.5	2.1	3.3	3.7	4.8	9.7	9.5	76.2
.10 inches or more	4.1	3.4	3.1	2.3	2.8	2.5	.8	1.5	1.7	2.2	4.4	4.6	33.4
.50 inches or more	.4	.2	.3	.2	.2	.3	.1	.2	.3	.3	.3	.4	3.0
1.00 inches or more			.03					.03		.03			.10
Degree Days													
Heating days @ 65°F	1206	883	691	438	211	57	7	15	135	454	803	1141	6040
Growing days @ 50°F	0	0	12	92	296	533	765	705	372	90	3	0	2868

Total Monthly Precipitation (in inches)
Malheur Experiment Station, Oregon

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1961	.52	1.08	1.17	.09	.42	.05	.30	.33	.77	1.11	.74	.87	7.45
1962	.79	1.61	.78	.42	2.72	T	.01	.31	.58	1.97	1.13	1.24	11.56
1963	.98	.60	.16	2.02	.31	1.81	.03	.43	.54	.63	1.29	1.03	9.83
1964	1.89	.08	.82	.98	1.33	1.69	.68	.58	.24	.19	1.50	2.79	12.77
1965	2.01	.15	.10	.84	.45	1.33	.13	1.88	.28	.19	2.04	.03	9.43
1966	.12	.55	.69	.19	.24	.15	.00	.08	.31	.27	1.54	1.60	5.74
1967	1.31	.09	.52	1.02	1.84	1.15	T	T	.81	.71	.27	.38	8.10
1968	.55	2.02	.39	.19	.63	.33	T	2.20	T	.38	2.54	1.65	10.88
1969	2.64	1.28	.43	1.15	.56	.85	.03	T	.30	1.07	.15	1.96	10.42
1970	3.92	.33	.83	.11	.66	1.66	.04	.04	.99	1.35	2.04	1.46	13.43
1971	1.52	.25	1.14	.26	.04	.94	T	.01	.32	.38	1.85	1.09	7.80
1972	1.02	.74	1.04	.26	.09	1.50	.16	.77	.44	.65	.88	1.92	9.47
1973	1.19	.31	.77	.42	.83	.15	.01	.01	.56	.48	2.48	2.08	9.29
1974	1.10	.55	1.20	.25	.14	.18	.57	.02	.00	.65	.71	1.37	6.74
1975	.86	1.82	1.19	1.31	.23	1.53	.51	.58	T	1.46	.65	1.45	11.59
1976	1.39	.97	.49	.94	.17	.28	.69	1.25	1.42	.09	.19	.12	8.00
1977	.93	.27	.46	.11	1.87	.04	.34	.74	.95	.18	1.85	1.79	9.53
1978	2.33	1.70	.53	3.51	.14	.56	.51	.20	.66	.01	.61	.72	11.48
1979	1.93	1.82	.85	.40	.90	.53	T	2.12	.15	1.21	1.18	.97	12.06
1980	1.28	1.50	1.54	.56	1.60	1.38	.07	T	1.59	.17	.84	1.73	12.26
1981	1.07	1.35	1.84	.73	1.16	1.01	.49	.06	.64	.93	2.76	3.53	15.57
1982	1.73	1.83	.68	.53	.40	.83	.76	.44	.54	2.06	.91	3.08	13.79
1983	1.46	1.48	3.73	.78	1.06	.65	.72	.87	.14	.33	2.08	3.57	16.87
1984	.33	.44	1.36	.94	.95	1.42	1.26	1.08	.12	1.42	1.46	.34	11.12
1985	.11	.36	.89	.54	.96	.32	.29	.15	1.59	.71	1.05	.92	7.89
1986	.96	2.29	1.24	.56	.42	.87	.19	.08	1.47	.12	.22	.22	8.64
1987	1.24	.77	1.37	.08	1.36	.96	.57	.60	.00	.00	1.40	1.46	9.81
1988	1.25	.14	.26	.75	.50	.65	.06	T	.04	.00	2.45	1.48	7.58
1989	.88	1.27	2.17	.50	.60	.76	.08	.94	.83	.86	.28	.01	9.18
1990	.49	.35	.72	1.52	1.70	.36	.04	.61	T	.49	.69	.29	7.26
Mean	1.26	.93	.98	.73	.81	.83	.33	.63	.60	.67	1.26	1.37	10.18
Maximum	3.92	2.29	3.73	3.51	2.72	1.81	1.26	2.20	1.59	2.06	2.76	3.57	16.87
Minimum	.11	.08	.10	.08	.04	.04	.00	.01	.00	.00	.15	.01	5.74
StdDev	.79	.68	.71	.70	.65	.54	.32	.64	.48	.57	.77	.97	2.62

Dates of Spring and Fall Low Temperatures
Malheur Experiment Station, Ontario, Oregon

Year	Last Date in Spring of Low Temperatures (°F)				First Date in Fall of Low Temperatures (°F)			
	24	28	32	36	24	28	32	36
1961	20-Apr	23-Apr	5-May	5-May	5-Nov	21-Oct	22-Sep	22-Sep
1962	30-Mar	30-Apr	30-Apr	4-Jun	23-Nov	7-Nov	7-Oct	29-Sep
1963	3-Apr	21-Apr	21-Apr	24-Apr	27-Oct	26-Oct	24-Oct	17-Oct
1964	17-Apr	4-May	23-May	23-May	3-Nov	17-Oct	2-Oct	27-Sep
1965	25-Mar	29-Mar	6-May	18-May	28-Nov	18-Sep	17-Sep	17-Sep
1966	24-Mar	20-Apr	23-May	23-May	24-Nov	11-Oct	4-Oct	1-Oct
1967	30-Mar	29-Apr	11-May	26-May	4-Nov	24-Oct	15-Oct	4-Oct
1968	13-Apr	23-Apr	6-May	7-May	14-Nov	9-Oct	3-Oct	22-Sep
1969	13-Mar	30-Apr	30-Apr	3-May	13-Oct	13-Oct	5-Oct	5-Oct
1970	16-Apr	11-May	14-May	14-May	15-Oct	15-Oct	25-Sep	14-Sep
1971	1-Apr	8-Apr	27-Apr	20-May	18-Oct	15-Oct	18-Sep	18-Sep
1972	17-Apr	30-Apr	1-May	9-May	27-Oct	27-Oct	25-Sep	20-Sep
1973	8-Apr	8-Apr	11-May	18-Jun	2-Nov	4-Oct	3-Oct	3-Oct
1974	24-Mar	14-Apr	18-May	21-May	5-Nov	6-Oct	28-Sep	28-Sep
1975	2-Apr	25-May	25-May	26-May	24-Oct	24-Oct	8-Oct	8-Oct
1976	2-Apr	3-Apr	23-Apr	26-Jun	19-Oct	18-Oct	5-Oct	9-Sep
1977	31-Mar	15-Apr	20-Apr	5-May	3-Nov	11-Oct	22-Sep	22-Sep
1978	15-Mar	16-Mar	23-Apr	25-May	26-Oct	23-Oct	14-Oct	19-Sep
1979	7-Feb	19-Apr	20-Apr	26-Apr	10-Nov	2-Nov	27-Oct	10-Oct
1980	17-Mar	26-Mar	13-Apr	16-Apr	23-Oct	17-Oct	17-Oct	22-Sep
1981	18-Mar	14-Apr	14-Apr	7-May	22-Oct	22-Oct	1-Oct	23-Sep
1982	20-Apr	21-Apr	5-May	8-Jun	19-Oct	19-Oct	5-Oct	2-Oct
1983	6-Feb	11-Apr	27-Apr	14-May	2-Dec	16-Oct	20-Sep	10-Sep
1984	5-Mar	7-Apr	7-May	16-May	16-Oct	25-Sep	25-Sep	23-Sep
1985	26-Mar	20-Apr	13-May	13-May	9-Oct	29-Sep	29-Sep	18-Sep
1986	14-Feb	21-Feb	23-May	5-Jul	10-Nov	12-Oct	12-Oct	21-Sep
1987	30-Mar	20-Apr	21-Apr	2-May	18-Nov	11-Oct	11-Oct	27-Sep
1988	13-Mar	10-Apr	2-May	7-May	26-Nov	31-Oct	30-Oct	23-Sep
1989	5-Mar	30-Mar	19-May	25-May	29-Oct	16-Oct	13-Sep	13-Sep
1990	25-Mar	25-Mar	8-May	2-Jun	17-Oct	8-Oct	7-Oct	4-Oct

Probabilities

10	3-Mar	25-Mar	20-Apr	1-May	15-Oct	3-Oct	19-Sep	13-Sep
20	13-Mar	2-Apr	22-Apr	5-May	18-Oct	8-Oct	24-Sep	18-Sep
Median (50%)	28-Mar	17-Apr	5-May	17-May	31-Oct	16-Oct	3-Oct	25-Sep
80	9-Apr	29-Apr	14-May	27-May	14-Nov	24-Oct	12-Oct	3-Oct
90	17-Apr	30-Apr	23-May	9-Jun	24-Nov	27-Oct	17-Oct	5-Oct

Medford, Oregon

Latitude: 42° 22'

Longitude: 122° 52'

Elevation: 4140

County: Jackson

Station Number: 355429

Agency: National Weather Service

Station History:

Latitude	Longitude	Elevation	Start Date	End Date
42° 20'	122° 51'	1379	3/11/11	7/15/27
42° 20'	122° 51'	1407	7/16/27	10/31/29
42° 22'	122° 52'	1314	11/1/29	7/1/48
42° 22'	122° 52'	1310	7/1/48	12/1/49
42° 22'	122° 52'	1310	12/1/49	9/1/51
42° 22'	122° 52'	1310	10/1/51	5/1/52
42° 22'	122° 52'	1310	5/1/52	12/1/56
42° 22'	122° 52'	1310	1/1/57	1/1/60
42° 22'	122° 52'	1310	1/1/60	3/1/61
42° 22'	122° 52'	1300	3/1/61	1/1/69
42° 22'	122° 52'	1310	1/1/69	10/1/70
42° 22'	122° 52'	1310	10/1/72	present

Monthly Means and Extremes
Medford, Oregon

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Mean Temperature (°F)													
Maximum	45.7	53.3	58.1	64.1	72.5	82.2	90.5	89.9	82.5	69.1	52.3	44.3	67.0
Minimum	30.3	32.2	34.9	37.4	43.0	49.9	54.2	54.2	47.5	39.8	34.8	31.1	40.8
Mean	37.9	42.7	46.4	50.8	57.7	66.0	72.5	72.1	65.0	54.5	43.6	37.7	53.9
Extreme Temperature (°F)													
Maximum	71	77	81	93	103	109	110	114	110	99	75	72	114
Minimum	0	9	21	24	28	33	38	39	31	18	10	-6	-6
Precipitation (inches)													
Monthly mean	2.69	1.93	1.82	1.16	1.00	.58	.26	.52	.87	1.55	3.23	3.32	18.93
Extreme 24 hr.	1.77	1.73	1.43	.98	.80	.76	1.07	.71	2.80	1.94	1.97	3.30	3.30
Evaporation in inches	.57	1.18	2.49	3.60	5.38	6.74	8.17	6.71	4.04	1.85	.77	.56	42.06
Average number of days													
Temperature													
Maximum 90° or more				.1	1.8	8.2	18.0	17.3	8.3	.9			54.6
Maximum 32° or less	1.0										.1	2.0	3.0
Minimum 32° or less	19.7	14.9	11.3	6.6	.9				.2	4.1	10.9	17.1	85.7
Minimum 0° or less												.2	.2
Precipitation													
.01 inches or more	12.6	11.1	11.9	9.7	7.0	4.9	1.7	3.1	4.2	7.4	13.7	13.8	101.1
.10 inches or more	6.0	5.0	5.4	3.8	3.3	2.1	.7	1.6	2.2	3.8	7.8	7.1	48.9
.50 inches or more	1.6	1.0	.6	.3	.3	.2	.1	.2	.4	.9	1.7	1.9	9.2
1.00 inches or more	.5	.3	.1						.1	.2	.6	.5	2.4
Degree Days													
Heating days @ 65°F	839	630	576	428	247	70	10	9	79	333	644	848	4713
Growing days @ 50°F	3	7	26	89	247	480	695	684	450	168	13	3	2865

Total Monthly Precipitation (in inches)
Medford, Oregon

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1961	1.12	2.74	3.05	.96	1.86	.34	.10	.15	.93	2.38	3.42	2.60	19.65
1962	1.69	1.05	1.55	.81	.80	.15	.00	1.00	.76	6.27	4.37	4.68	23.13
1963	1.75	2.47	.88	2.25	2.23	.92	.15	.26	.26	1.40	5.25	1.05	18.87
1964	5.60	.21	2.71	.37	.82	.79	.97	.10	.15	.90	3.75	12.72	29.09
1965	4.30	.70	.41	3.07	.31	1.05	.03	1.52	.00	.46	2.56	3.71	18.12
1966	4.80	.37	1.70	.45	.20	.37	1.63	.19	1.88	.76	5.89	2.80	21.04
1967	5.44	1.14	2.08	1.72	.96	.27	.00	.00	.28	2.34	1.04	3.40	18.67
1968	1.86	2.95	.90	.38	1.05	.06	.00	1.33	.32	.62	3.04	2.78	15.29
1969	6.16	1.46	.29	.60	1.62	1.31	.02	.00	.62	2.46	.49	5.44	20.47
1970	6.19	1.70	1.13	1.44	.34	.59	.00	.34	.22	1.39	6.57	3.36	23.27
1971	3.68	1.43	2.72	1.34	1.13	.97	.07	.28	1.24	.61	3.43	2.45	19.35
1972	3.55	2.49	3.62	.94	1.61	1.59	.00	.36	.52	1.21	1.50	3.23	20.62
1973	1.98	.54	1.58	.76	.45	.06	.04	.03	.64	2.79	7.01	3.02	18.90
1974	4.32	2.78	3.26	1.70	.22	.00	.10	.00	.00	1.17	1.13	3.91	18.59
1975	2.64	2.64	3.97	1.27	.24	.38	.22	.54	.65	2.21	1.85	2.74	19.35
1976	1.62	2.21	1.13	1.67	.11	.04	.84	2.83	.90	.18	.43	.36	12.32
1977	1.17	.67	1.12	.81	2.37	.53	.23	.36	4.22	.96	4.91	4.81	22.16
1978	1.53	2.45	2.03	1.26	1.59	1.02	.54	1.46	1.68	.01	1.50	.66	15.73
1979	2.81	1.54	.83	2.24	1.42	.55	.02	.63	.32	3.98	3.17	2.73	20.24
1980	2.59	1.78	1.27	1.75	.69	1.22	.02	.00	.18	1.52	2.28	2.59	15.89
1981	.54	1.72	1.23	.55	1.17	.47	.41	.00	.52	1.23	6.05	8.02	21.91
1982	1.43	3.64	2.30	.87	.00	.85	.07	.03	.97	1.60	2.17	5.31	19.24
1983	.92	5.67	3.21	1.12	.81	.66	.59	2.21	2.05	1.21	4.97	6.73	30.15
1984	.19	2.50	2.05	1.11	.39	.79	.16	.40	.51	3.77	6.56	1.96	20.39
1985	.23	1.58	1.22	.39	1.00	.37	.00	.02	1.53	1.50	2.02	.83	10.69
1986	1.99	5.22	1.02	.23	1.19	.45	.00	.00	2.31	1.49	2.45	.72	17.07
1987	2.89	2.23	1.34	.45	.95	.12	1.34	.00	.00	.00	1.68	3.77	14.77
1988	2.53	.20	.57	1.07	1.51	1.04	.00	.02	.22	.12	5.14	1.28	13.70
1989	2.33	.78	3.94	2.42	1.01	.16	.00	.41	1.94	.71	.71	.68	15.09
1990	2.94	1.06	1.49	.82	1.86	.17	.11	.99	.13	1.29	1.52	1.12	13.50
Mean	2.69	1.93	1.82	1.16	1.00	.58	.26	.52	.87	1.55	3.23	3.32	18.91
Maximum	6.19	5.67	3.97	3.07	2.37	1.59	1.63	2.83	4.22	6.27	7.01	12.72	30.15
Minimum	.19	.20	.29	.23	.00	.00	.00	.00	.00	.00	.43	.36	10.69
StdDev	1.71	1.31	1.05	.70	.64	.43	.42	.71	.92	1.33	2.00	2.56	4.30

Dates of Spring and Fall Low Temperatures **Medford, Oregon**

Year	Last Date in Spring of Low Temperatures (°F)				First Date in Fall of Low Temperatures (°F)			
	24°	28°	32°	36°	24°	28°	32°	36°
1961	19-Jan	28-Mar	26-Apr	27-May	7-Nov	8-Oct	29-Sep	22-Sep
1962	14-Mar	10-Apr	16-May	5-Jun	29-Nov	7-Nov	5-Oct	5-Oct
1963	18-Mar	20-Apr	28-Apr	13-May	1-Nov	27-Oct	26-Oct	25-Oct
1964	29-Feb	24-Apr	6-May	25-May	15-Nov	17-Oct	16-Oct	18-Sep
1965	18-Mar	19-Mar	8-May	27-Jun	13-Dec	27-Nov	18-Sep	17-Sep
1966	22-Mar	19-Apr	29-Apr	4-Jun	***	14-Oct	13-Oct	10-Oct
1967	4-Mar	28-Apr	1-May	13-May	26-Nov	20-Nov	15-Oct	14-Oct
1968	14-Feb	6-May	6-May	7-May	19-Dec	30-Nov	6-Nov	8-Oct
1969	11-Mar	25-Mar	2-May	2-May	29-Nov	6-Nov	4-Oct	4-Oct
1970	6-Jan	21-Apr	27-Apr	21-May	18-Dec	7-Oct	14-Sep	13-Sep
1971	26-Feb	18-Mar	17-May	20-May	28-Oct	17-Oct	16-Oct	16-Oct
1972	18-Apr	30-Apr	1-May	24-May	4-Dec	27-Oct	20-Sep	20-Sep
1973	19-Feb	2-Apr	29-Apr	10-May	***	19-Nov	2-Nov	2-Oct
1974	8-Mar	13-Apr	26-Apr	30-May	29-Nov	3-Nov	5-Oct	4-Oct
1975	21-Feb	16-Apr	25-May	25-May	18-Nov	12-Nov	14-Oct	14-Oct
1976	2-Apr	9-Apr	26-Apr	4-Jun	26-Nov	27-Oct	17-Oct	4-Oct
1977	19-Feb	19-Apr	8-May	27-May	9-Nov	8-Nov	21-Oct	9-Oct
1978	1-Mar	15-Mar	6-May	17-May	31-Oct	30-Oct	19-Sep	19-Sep
1979	3-Feb	15-Feb	29-May	30-May	21-Nov	19-Nov	8-Nov	29-Oct
1980	11-Feb	2-Apr	11-Apr	23-May	7-Dec	12-Nov	18-Oct	17-Oct
1981	9-Feb	17-Mar	7-May	12-May	***	28-Nov	12-Oct	25-Sep
1982	12-Feb	21-Mar	4-May	19-May	10-Nov	2-Nov	18-Oct	30-Sep
1983	4-Feb	13-Apr	10-May	11-May	22-Dec	29-Nov	7-Nov	19-Sep
1984	3-Feb	3-Mar	6-May	10-Jun	19-Dec	5-Dec	23-Oct	24-Sep
1985	3-Mar	22-Mar	4-May	15-May	11-Nov	9-Oct	8-Oct	8-Oct
1986	10-Feb	14-Mar	30-Apr	15-May	***	10-Dec	13-Oct	2-Oct
1987	25-Feb	19-Apr	19-Apr	20-May	29-Nov	27-Nov	5-Nov	14-Oct
1988	11-Mar	8-Apr	9-Apr	4-May	15-Dec	29-Nov	9-Nov	18-Sep
1989	28-Feb	3-Mar	26-Mar	19-May	28-Nov	29-Oct	29-Oct	3-Oct
1990	13-Mar	13-Mar	8-May	15-May	19-Dec	2-Nov	6-Oct	6-Oct

Probabilities

10%	3-Feb	12-Mar	18-Apr	9-May	4-Nov	13-Oct	19-Sep	18-Sep
20%	9-Feb	16-Mar	26-Apr	12-May	10-Nov	25-Oct	4-Oct	19-Sep
Median (50%)	27-Feb	5-Apr	3-May	20-May	28-Nov	6-Nov	15-Oct	4-Oct
80%	13-Mar	19-Apr	8-May	30-May	15-Dec	27-Nov	29-Oct	14-Oct
90%	18-Mar	24-Apr	16-May	4-Jun	19-Dec	29-Nov	6-Nov	16-Oct

*** Did not occur

Moro, Oregon

Latitude: 45° 29'

Longitude: 120° 43'

Elevation: 1870 ft.

County: Sherman

Station Number: 355734

Agency: Oregon State Agricultural Experiment Station

Station History:

Latitude	Longitude	Elevation	Start Date	End Date
45° 29'	120° 43'	1858	1/1/1897	12/31/1897
45° 29'	120° 43'	1858	1/1/1898	1/31/1898
45° 29'	120° 43'	1858	1/1/17	7/1/48
45° 29'	120° 43'	1870	7/1/48	9/1/51
45° 29'	120° 43'	1870	10/1/51	4/1/57
45° 29'	120° 43'	1870	4/1/57	2/1/60
45° 29'	120° 43'	1870	2/1/60	3/1/68
45° 29'	120° 43'	1870	3/1/68	11/1/71
45° 29'	120° 43'	1870	11/1/71	present

Monthly Means and Extremes
Moro, Oregon

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Mean Temperature (°F)													
Maximum	33.7	42.8	54.4	63.9	73.4	82.7	91.3	89.7	78.5	65.0	47.8	35.7	63.2
Minimum	24.2	28.5	31.9	35.7	41.5	48.6	53.7	53.2	45.4	36.8	31.0	25.1	37.9
Mean	31.0	36.1	41.4	46.5	53.4	61.3	67.7	67.2	59.1	49.2	38.9	31.7	48.5
Extreme Temperature (°F)													
Maximum	60	66	79	91	100	104	105	108	98	87	77	62	108
Minimum	-14	-15	13	19	25	27	35	31	23	14	-15	-16	-16
Precipitation (inches)													
Monthly mean	1.49	.99	1.08	.81	.84	.60	.28	.47	.54	.75	1.66	1.74	11.25
Extreme 24 hr.	1.64	1.14	.63	1.21	1.52	1.14	.59	.69	.85	1.08	.98	1.26	1.64
Average number of days													
Temperature													
Maximum 90° or more				.1	1.3	7.4	20.4	18.3	4.0				51.5
Maximum 32° or less	12.7	3.2	.1								.8	9.1	25.9
Minimum 32° or less	25.3	20.2	16.9	9.6	2.5	.2			.9	8.5	16.9	24.8	125.2
Minimum 0° or less	1.5	.5									.2	1.1	3.3
Precipitation													
.01 inches or more	11.0	9.5	10.5	8.2	6.5	4.8	2.8	3.6	4.1	6.7	13.0	11.2	91.0
.10 inches or more	4.4	3.6	3.7	2.4	2.5	1.8	1.0	1.5	1.7	2.5	5.5	5.4	35.5
.50 inches or more	.6	.1	.2	.1	.2	.2	.1	.1	.2	.2	.5	.8	3.2
1.00 inches or more	.1											.1	.4
Degree Days													
Heating days @ 65°F	1055	816	732	557	370	169	66	64	205	491	784	1031	6343
Growing days @ 50°F	0	1	6	41	151	342	548	535	285	76	4	1	1988

Total Monthly Precipitation (in inches)
Moro, Oregon

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1961	.96	3.31	2.00	.86	1.26	.85	.20	.12	.07	.44	1.48	1.72	13.27
1962	.22	1.04	.74	.75	1.96	.05	.00	.87	.36	1.90	1.83	1.98	11.70
1963	.78	.95	1.17	2.12	.64	.14	.45	.62	1.63	.50	1.56	1.36	11.92
1964	.60	.25	.80	.15	.08	1.30	.04	.18	.16	.60	1.69	6.11	11.96
1965	1.65	.16	.63	.72	.32	.59	.17	1.04	.08	.36	2.07	.51	8.30
1966	2.45	.54	.78	.06	.02	.13	1.31	.00	.47	.74	3.14	1.84	11.48
1967	.91	.03	.55	1.47	.39	.32	.00	.00	.26	.74	.84	.54	6.05
1968	.97	1.04	.16	.10	.74	.10	.15	1.52	.40	1.04	2.67	2.09	10.98
1969	1.93	.44	.63	.84	.84	1.99	.00	.00	.52	.76	.53	2.00	10.48
1970	3.96	1.27	.88	.38	.33	.22	.00	.00	.13	.68	2.36	1.21	11.42
1971	1.63	.12	1.28	.84	.93	.81	.20	.09	1.36	.45	1.50	1.03	10.24
1972	2.25	.26	1.44	.40	.45	1.70	.07	.55	.57	.43	.83	1.60	10.55
1973	1.09	.34	.40	.21	.34	.25	.00	.07	.90	.85	3.70	3.99	12.14
1974	1.29	.97	1.30	1.18	.38	.02	.41	.00	.00	.37	1.02	1.39	8.33
1975	2.01	1.47	1.25	.46	.53	.84	.40	1.26	.00	1.17	1.34	1.26	11.99
1976	1.25	.93	.95	1.06	.14	.06	.79	1.06	.04	.10	.43	.20	7.01
1977	.18	.63	.50	.08	2.70	.28	.37	.90	.88	.22	2.00	3.22	11.96
1978	2.80	1.31	.74	1.42	.48	.44	.59	1.32	.33	.01	.79	.69	10.92
1979	1.59	1.54	.99	1.06	.28	.10	.07	1.12	.53	2.59	2.23	.65	12.75
1980	3.41	1.83	.94	.89	1.27	1.37	.16	.11	.42	.79	1.73	2.95	15.87
1981	1.52	1.22	.65	.41	1.06	1.15	.20	.00	.92	.82	1.99	4.73	14.67
1982	1.10	.72	.55	1.45	.37	1.15	.21	.40	1.42	1.96	1.08	1.89	12.30
1983	1.40	2.43	2.74	.61	1.96	.39	.80	.60	.52	.62	2.45	2.31	16.83
1984	.17	1.07	2.34	1.32	.89	.00	.00	.00	.53	.86	3.18	4.11	14.47
1985	.27	.97	.44	.14	.63	.92	.05	.14	1.11	1.09	1.19	1.12	8.07
1986	1.84	2.39	.98	.34	.35	.06	.54	.07	1.52	.45	1.53	.78	10.85
1987	1.68	1.10	1.54	.28	.99	.29	.78	.11	.07	.01	.66	3.23	10.74
1988	1.60	.21	1.25	2.21	.55	1.02	.04	.00	.56	.02	2.51	.22	10.19
1989	1.33	.77	1.91	.84	.91	.08	.11	.49	.07	.59	.96	.48	8.54
1990	1.91	.17	.76	.79	1.36	.39	.15	1.43	.29	1.27	.61	.74	9.87
Mean	1.49	.98	1.04	.78	.77	.57	.28	.47	.54	.75	1.66	1.87	11.20
Maximum	3.96	3.31	2.74	2.21	2.70	1.99	1.31	1.52	1.63	2.59	3.70	6.11	16.83
Minimum	.17	.03	.16	.06	.02	.00	.00	.00	.00	.01	.43	.20	6.05
StdDev	.89	.76	.59	.57	.61	.55	.32	.51	.48	.59	.85	1.44	2.42

Dates of Spring and Fall Low Temperatures **Moro, Oregon**

Year	Last Date in Spring of Low Temperatures (°F)				First Date in Fall of Low Temperatures (°F)			
	24°	28°	32°	36°	24°	28°	32°	36°
1961	5-Jan	19-Apr	4-May	24-May	20-Oct	8-Oct	8-Oct	13-Sep
1962	15-Feb	28-Mar	4-Jun	4-Jun	28-Nov	17-Nov	5-Oct	8-Sep
1963	23-Feb	16-Apr	1-May	16-May	21-Nov	19-Oct	19-Oct	19-Oct
1964	5-Mar	25-May	26-May	20-Jun	15-Nov	18-Oct	3-Oct	8-Sep
1965	6-Mar	5-May	18-May	18-May	14-Dec	17-Sep	16-Sep	30-Aug
1966	12-Mar	19-Apr	18-May	25-Jun	26-Dec	12-Oct	9-Oct	3-Oct
1967	13-Mar	28-Apr	26-May	30-May	2-Nov	20-Oct	19-Oct	13-Sep
1968	15-Mar	5-May	8-May	12-Jun	1-Nov	8-Oct	2-Oct	2-Oct
1969	19-Mar	26-Apr	3-May	3-May	13-Oct	13-Oct	4-Oct	15-Sep
1970	21-Mar	27-Apr	29-Apr	13-May	27-Oct	25-Sep	13-Sep	9-Sep
1971	24-Mar	12-Apr	23-Apr	30-May	17-Oct	17-Oct	16-Oct	7-Jul
1972	25-Mar	1-May	19-May	25-May	30-Oct	27-Sep	25-Sep	23-Sep
1973	29-Mar	11-May	21-May	18-Jun	5-Nov	3-Nov	3-Oct	16-Sep
1974	30-Mar	16-May	17-May	26-Jun	6-Oct	6-Oct	5-Oct	13-Sep
1975	2-Apr	29-Apr	25-May	25-May	18-Nov	8-Nov	28-Oct	7-Oct
1976	3-Apr	3-Jun	5-Jun	6-Jun	26-Nov	19-Oct	18-Oct	15-Oct
1977	5-Apr	20-Apr	27-May	28-May	3-Nov	4-Oct	2-Oct	22-Sep
1978	8-Apr	15-Mar	22-May	26-May	25-Oct	22-Oct	12-Oct	19-Sep
1979	14-Apr	19-Apr	20-Apr	30-May	11-Nov	11-Nov	1-Nov	27-Sep
1980	16-Apr	7-Apr	23-May	3-Jun	21-Sep	21-Sep	29-Aug	6-Aug
1981	13-Apr	14-Apr	8-May	13-Jun	22-Oct	21-Oct	23-Sep	22-Sep
1982	20-Apr	4-May	5-May	30-May	19-Oct	18-Oct	15-Sep	16-Sep
1983	14-Apr	15-Apr	26-Apr	24-Jun	29-Nov	20-Sep	21-Sep	19-Sep
1984	19-Feb	30-Mar	7-May	M	21-Oct	16-Oct	24-Sep	M
1985	20-Apr	12-May	12-May	15-May	19-Oct	29-Sep	28-Sep	7-Sep
1986	21-Feb	30-Apr	11-May	23-May	10-Nov	10-Nov	11-Oct	14-Sep
1987	16-Apr	30-Mar	20-Apr	2-Jun	17-Nov	19-Oct	10-Oct	17-Sep
1988	19-Apr	7-Apr	17-May	17-May	28-Oct	27-Oct	27-Oct	12-Sep
1989	19-Apr	3-Apr	20-May	28-May	1-Nov	15-Oct	3-Oct	3-Oct
1990	19-Apr	9-Apr	9-May	25-May	7-Dec	7-Oct	6-Oct	6-Oct

Probabilities

	10%	20%	Median (50%)	80%	90%	16-Oct	24-Sep	15-Sep	5-Sep
	20-Feb	30-Mar	25-Apr	15-May	15-May	16-Oct	24-Sep	15-Sep	5-Sep
	5-Mar	7-Apr	2-May	21-May	21-May	19-Oct	3-Oct	23-Sep	8-Sep
	29-Mar	19-Apr	14-May	30-May	30-May	1-Nov	16-Oct	4-Oct	16-Sep
	16-Apr	5-May	23-May	12-Jun	12-Jun	22-Nov	23-Oct	16-Oct	2-Oct
	19-Apr	12-May	26-May	20-Jun	20-Jun	29-Nov	8-Nov	19-Oct	6-Oct

*** Did not occur

North Bend, Oregon

Latitude: 43° 25'

Longitude: 124° 15'

Elevation: 10 ft.

County: Coos

Station Number: 356073

Agency: National Weather Service

Station History:

Latitude	Longitude	Elevation	Start Date	End Date
43° 25'	124° 15'	11	7/1/47	7/1/48
43° 25'	124° 15'	10	7/1/48	9/1/51
43° 25'	124° 15'	10	10/1/51	12/1/56
43° 25'	124° 15'	10	1/1/57	12/1/58
43° 25'	124° 15'	10	1/1/59	present

Monthly Means and Extremes
North Bend, Oregon

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Mean Temperature (°F)													
Maximum	51.8	54.2	54.7	56.2	60.1	63.8	66.2	67.1	66.8	62.9	56.8	52.4	59.4
Minimum	39.0	40.5	41.1	42.4	46.5	50.7	52.5	53.0	50.5	46.7	43.2	39.7	45.5
Mean	45.4	47.3	48.0	49.3	53.4	57.3	59.4	60.1	58.7	54.9	50.1	46.1	52.5
Extreme Temperature (°F)													
Maximum	69	76	78	87	84	86	88	91	95	86	75	70	95
Minimum	17	14	27	28	36	39	41	44	34	28	22	15	14
Precipitation (inches)													
Monthly mean	9.73	7.76	7.83	4.65	2.89	1.63	.47	.97	1.81	4.58	10.31	10.93	63.56
Extreme 24 hr.	3.37	4.23	2.86	2.65	2.13	2.72	1.29	1.51	2.05	3.63	3.51	5.60	5.60
Average number of days													
Temperature													
Maximum 90° or more								.1	.1				.2
Maximum 32° or less	.1	.1										.1	.3
Minimum 32° or less	5.6	2.9	1.3	.2						.2	1.4	4.4	16.0
Minimum 0° or less													
Precipitation													
.01 inches or more	18.8	17.1	19.6	16.1	12.3	8.7	4.4	5.5	7.2	12.1	19.7	19.5	161.0
.10 inches or more	15.1	12.9	14.5	10.5	6.9	4.1	1.4	2.3	4.1	7.8	16.0	15.6	111.2
.50 inches or more	6.7	5.3	5.6	2.9	1.9	.9	.1	.5	1.1	3.3	7.7	7.1	43.1
1.00 inches or more	2.8	2.2	1.9	.7	.3	.2		.2	.3	1.2	2.9	3.3	16.0
Degree Days													
Heating days @ 65°F	607	501	527	466	359	232	173	154	192	316	448	579	4556
Growing days @ 50°F	19	28	29	37	113	218	292	312	261	158	59	25	1550

Total Monthly Precipitation (in inches)
North Bend, Oregon

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1961	7.51	15.26	13.28	4.47	5.74	.52	.17	.63	.69	5.93	10.68	6.30	71.18
1962	2.41	8.24	9.05	2.55	2.00	.65	.09	.57	1.38	6.54	7.36	4.10	44.94
1963	3.47	6.84	7.33	9.26	5.26	1.64	.71	.05	1.53	3.92	11.66	4.92	56.59
1964	12.75	2.63	6.97	3.10	.91	1.91	.88	.70	.81	1.54	12.88	17.77	62.85
1965	13.39	3.25	1.65	4.94	1.77	.84	.10	.50	.05	2.73	13.48	14.39	57.09
1966	12.74	5.64	11.14	1.67	.72	.47	1.09	.15	2.08	2.55	11.00	10.33	59.58
1967	13.47	5.50	9.69	6.08	1.84	.48	.00	.01	1.34	5.12	5.77	10.79	60.09
1968	11.77	6.33	5.73	2.06	2.67	1.78	.13	5.49	2.44	7.13	10.38	18.56	74.47
1969	16.87	7.06	2.86	3.43	1.66	3.34	.11	.01	3.03	4.90	5.28	14.37	62.92
1970	20.23	8.34	2.61	5.78	3.05	.73	.02	.04	1.43	4.22	8.10	11.98	66.53
1971	13.57	6.15	9.70	8.06	1.84	3.00	.08	2.72	5.36	4.50	9.50	15.00	79.48
1972	9.90	6.92	10.61	7.73	1.13	.87	.14	1.10	1.82	1.14	5.85	11.91	59.12
1973	7.92	3.84	7.72	1.91	1.65	1.43	.00	.38	3.32	3.12	22.69	16.10	70.08
1974	11.63	10.33	12.58	2.91	2.07	.56	.92	.00	.17	1.24	8.67	11.76	62.84
1975	8.22	9.75	8.12	6.16	2.92	.47	.07	1.89	.00	9.22	10.72	6.80	64.34
1976	6.73	7.39	5.84	2.88	.76	.29	.79	2.12	.76	1.61	2.55	1.80	33.52
1977	1.85	4.65	8.26	1.28	4.51	.69	.04	2.13	3.38	3.55	11.30	12.60	54.24
1978	12.89	7.55	2.37	10.49	3.96	1.49	.37	1.97	3.53	.40	5.27	4.40	54.69
1979	3.92	13.17	4.76	5.18	4.51	.84	.62	.88	2.80	6.77	8.15	13.10	64.70
1980	5.62	5.59	6.35	7.12	2.04	2.16	.41	.14	.79	2.89	5.71	12.95	51.77
1981	5.16	6.60	7.08	2.53	4.70	2.79	.16	.32	3.57	9.04	12.10	20.25	74.30
1982	13.89	8.04	9.37	9.59	.38	1.94	.68	.19	2.32	5.55	9.58	15.34	76.87
1983	12.59	15.84	13.97	4.56	2.74	2.48	2.79	2.63	.88	3.17	17.51	14.38	93.54
1984	3.34	12.07	8.65	6.80	5.16	4.01	.10	.20	1.08	11.13	21.56	6.17	80.27
1985	.99	6.90	7.44	1.85	1.85	4.80	.17	.19	2.34	7.38	7.60	5.04	46.55
1986	10.83	16.26	7.38	4.53	5.79	.75	.95	.09	4.60	3.35	13.22	5.49	73.24
1987	12.89	8.86	10.97	2.92	1.64	.12	.41	.45	.08	.36	6.58	20.76	66.04
1988	13.93	2.32	4.76	3.69	5.30	2.47	.49	.01	1.88	.50	18.25	9.10	62.70
1989	9.97	3.76	13.86	2.63	3.78	1.61	.69	1.40	.42	5.68	4.83	1.70	50.33
1990	11.50	7.73	4.08	3.36	4.37	2.75	.45	1.88	.02	12.46	9.90	.71	59.21
Mean	9.73	7.76	7.81	4.65	2.89	1.60	.45	.96	1.80	4.59	10.27	10.97	63.27
Maximum	20.23	16.26	13.97	10.49	5.79	4.80	2.79	5.49	5.36	12.46	22.69	20.76	93.54
Minimum	.99	2.32	1.65	1.28	.38	.12	.00	.00	.00	.36	2.55	1.70	33.52
StdDev	4.77	3.69	3.38	2.55	1.66	1.19	.55	1.21	1.42	3.13	4.82	5.43	12.26

Dates of Spring and Fall Low Temperatures North Bend, Oregon

Year	Last Date in Spring of Low Temperatures (°F)				First Date in Fall of Low Temperatures (°F)			
	24°	28°	32°	36°	24°	28°	32°	36°
1961	***	2-Jan	3-Jan	7-Apr	***	16-Nov	15-Nov	29-Oct
1962	27-Feb	27-Feb	12-Mar	11-Apr	***	25-Dec	24-Dec	23-Nov
1963	27-Jan	27-Jan	27-Jan	20-Apr	***	***	27-Oct	19-Oct
1964	***	27-Feb	27-Feb	18-Apr	***	14-Nov	14-Nov	13-Nov
1965	***	19-Mar	20-Mar	6-Apr	***	14-Dec	14-Dec	13-Dec
1966	20-Jan	16-Feb	22-Mar	17-May	***	***	***	18-Oct
1967	***	***	12-Mar	28-Apr	***	13-Dec	26-Nov	21-Nov
1968	***	13-Apr	13-Apr	21-Apr	***	***	19-Dec	15-Nov
1969	***	28-Jan	13-Mar	7-Apr	***	***	5-Dec	11-Oct
1970	***	***	3-Apr	27-Apr	***	***	18-Dec	13-Sep
1971	2-Jan	6-Jan	12-Jan	3-Apr	***	29-Oct	28-Oct	16-Oct
1972	***	30-Jan	2-Feb	30-Apr	5-Dec	5-Dec	30-Oct	27-Sep
1973	***	26-Jan	26-Jan	7-Apr	***	***	***	***
1974	10-Jan	11-Jan	8-Mar	8-Mar	***	***	23-Dec	6-Oct
1975	30-Jan	21-Feb	5-Apr	28-Apr	***	***	18-Nov	16-Nov
1976	***	5-Mar	2-Apr	26-Apr	***	24-Dec	26-Nov	23-Oct
1977	***	29-Jan	17-Apr	19-Apr	***	***	8-Nov	3-Nov
1978	***	26-Jan	11-Feb	7-Apr	13-Nov	10-Nov	30-Oct	22-Oct
1979	1-Feb	2-Feb	3-Feb	1-Mar	***	***	11-Dec	26-Nov
1980	29-Jan	30-Jan	30-Jan	7-Apr	***	***	6-Dec	22-Oct
1981	***	***	6-Mar	13-Apr	***	***	28-Nov	25-Nov
1982	***	10-Feb	23-Feb	29-Apr	***	***	10-Nov	7-Nov
1983	***	***	12-Apr	13-Apr	22-Dec	21-Dec	21-Dec	8-Nov
1984	***	17-Jan	17-Jan	3-Mar	***	***	18-Dec	21-Nov
1985	***	***	7-Mar	12-May	***	11-Nov	10-Nov	8-Oct
1986	***	***	9-Feb	24-Apr	***	***	30-Nov	11-Nov
1987	***	25-Feb	28-Mar	28-Mar	***	13-Dec	28-Nov	16-Oct
1988	***	4-Feb	8-Apr	9-Apr	***	15-Dec	29-Nov	29-Nov
1989	8-Feb	8-Feb	3-Mar	23-Mar	***	19-Dec	11-Dec	15-Oct
1990	***	18-Feb	19-Feb	13-Mar	19-Dec	19-Dec	19-Dec	7-Oct

Probabilities

10%	***	***	25-Jan	12-Mar	21-Dec	13-Nov	30-Oct	6-Oct
20%	***	***	1-Feb	1-Apr	***	11-Dec	10-Nov	14-Oct
Median (50%)	***	29-Jan	6-Mar	12-Apr	***	28-Dec	29-Nov	31-Oct
80%	21-Jan	21-Feb	2-Apr	27-Apr	***	***	19-Dec	21-Nov
90%	30-Jan	27-Feb	8-Apr	29-Apr	***	***	23-Dec	26-Nov

*** Did not occur

North Willamette Experiment Station, Oregon

Latitude: 45° 17'

Longitude: 122° 45'

Elevation: 150 ft.

County: Clackamas

Station Number: 356151

Agency: Oregon State Agricultural Experiment Station

Station History:

Latitude	Longitude	Elevation	Start Date	End Date
45° 17'	122° 45'	150	1/1/63	2/1/78
45° 17'	122° 45'	150	2/1/78	present

Monthly Means and Extremes
North Willamette Exp. Stn., Aurora, Oregon

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Mean Temperature (°F)													
Maximum	46.0	51.0	55.5	59.9	66.7	73.2	79.7	80.2	74.6	64.0	52.8	46.1	62.5
Minimum	32.4	34.3	36.6	39.4	44.2	49.7	52.5	52.3	48.5	41.4	37.4	33.1	41.8
Mean	39.2	42.7	46.0	49.7	55.4	61.5	66.1	66.2	61.6	52.8	45.2	39.6	52.2
Extreme Temperature (°F)													
Maximum	63	72	76	86	101	100	103	105	105	95	72	65	105
Minimum	8	8	20	26	29	34	41	37	30	25	14	0	0
Precipitation (inches)													
Monthly mean	6.17	4.39	3.99	2.64	2.17	1.73	.70	.94	1.84	3.11	6.03	7.09	40.80
Extreme 24 hr.	2.01	2.10	1.97	1.58	1.71	1.59	1.76	1.40	1.53	1.40	2.85	2.30	2.85
Evaporation in inches	.89	1.34	2.30	3.39	5.11	5.95	7.58	6.82	4.77	2.46	1.11	.77	42.49
Average number of days													
Temperature													
Maximum 90° or more					.5	1.5	4.6	4.9	1.9	.2			13.6
Maximum 32° or less	1.2	.2									.1	1.3	2.8
Minimum 32° or less	15.6	11.6	7.9	3.3	.3				.1	2.1	7.6	13.6	62.2
Minimum 0° or less													
Precipitation													
.01 inches or more	18.6	15.8	17.8	15.4	11.4	8.4	3.9	4.5	7.5	13.3	19.3	20.0	156.0
.10 inches or more	13.4	10.6	11.5	8.6	6.2	4.7	1.9	2.3	4.7	8.0	13.2	13.6	98.7
.50 inches or more	4.0	2.8	1.9	.9	.7	.8	.3	.5	1.0	2.0	4.1	5.2	24.1
1.00 inches or more	1.2	.5	.3	.1	.2	.2	.1	.1	.3	.4	1.0	1.5	5.7
Degree Days													
Heating days @ 65°F	793	627	582	460	307	143	51	49	134	381	589	777	4893
Growing days @ 50°F	3	7	19	64	182	341	495	499	346	118	17	3	2094

Total Monthly Precipitation (in inches)
North Willamette Exp. Stn., Aurora, Oregon

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1961	M	M	M	M	M	M	M	M	M	M	M	M	M
1962	M	M	M	M	M	M	M	M	M	M	M	M	M
1963	1.14	4.02	6.48	.00	4.34	1.62	.81	.36	1.11	3.09	5.86	4.45	33.28
1964	11.36	.83	2.93	1.21	.94	1.67	.74	.58	1.49	1.52	7.21	13.84	44.32
1965	8.51	2.07	1.09	3.23	1.30	.66	.23	.99	.05	2.79	6.63	6.78	34.33
1966	7.84	1.92	5.96	1.22	.93	1.18	1.16	.31	1.41	2.97	5.62	6.57	37.09
1967	6.77	1.53	4.79	2.58	2.12	.72	.00	.00	.26	5.58	2.04	5.65	32.04
1968	4.68	8.20	3.06	2.04	2.99	2.34	.98	4.17	2.75	6.88	7.02	12.46	57.57
1969	7.41	3.03	1.45	2.99	1.76	3.20	.11	.08	3.42	4.69	2.94	8.53	39.61
1970	11.72	5.12	2.30	2.36	1.30	.31	.07	.00	1.38	3.49	6.94	8.92	43.91
1971	7.59	3.49	5.59	3.71	1.77	2.92	.08	.43	3.51	3.69	6.49	8.02	47.29
1972	6.59	4.78	5.77	3.61	2.65	.60	.47	.65	3.50	.87	5.07	8.81	43.37
1973	4.45	1.96	2.67	1.28	1.56	1.47	.01	.82	2.58	2.94	13.04	10.02	42.80
1974	8.24	5.48	6.28	2.23	1.98	.96	2.31	.02	.26	1.62	6.56	6.53	42.47
1975	6.84	4.24	2.22	2.46	1.86	1.27	.65	2.53	.00	5.61	4.37	6.66	38.71
1976	6.32	6.68	2.82	3.00	1.48	.57	.95	2.41	1.18	.85	1.67	1.48	29.41
1977	1.37	2.80	4.26	.64	3.82	1.54	.83	2.69	3.23	2.45	6.61	10.52	40.76
1978	5.35	3.59	1.69	3.50	4.52	1.69	.90	2.08	2.74	.37	4.92	3.54	34.89
1979	3.45	7.36	3.22	3.35	2.36	.47	.82	.82	3.25	5.35	3.77	6.75	40.97
1980	9.99	4.68	3.59	4.07	1.23	2.52	.14	.49	1.69	1.67	6.87	11.90	48.84
1981	2.01	4.11	3.48	2.29	2.23	4.27	.19	.03	2.68	4.14	5.39	10.27	41.09
1982	6.24	6.94	3.12	4.78	.89	.86	.34	.99	3.61	3.74	5.04	8.92	45.47
1983	7.57	9.54	7.18	2.77	2.13	2.60	2.68	2.52	.86	2.25	9.04	6.33	55.47
1984	3.05	4.69	4.46	4.09	4.59	5.35	.00	.03	1.99	5.78	12.90	3.68	50.61
1985	.45	3.49	4.54	1.42	.97	2.48	.45	.79	1.93	3.17	5.00	2.46	27.15
1986	5.83	7.65	2.95	2.09	2.74	.38	1.28	.04	2.93	2.81	6.71	4.13	39.54
1987	6.75	4.94	5.55	2.19	1.66	.30	2.00	.10	.53	.23	2.40	10.55	37.20
1988	7.88	1.71	3.73	4.63	2.56	2.55	.21	.03	1.25	.20	9.88	3.28	37.91
1989	4.24	3.16	7.02	1.24	2.27	.91	.52	1.37	1.34	2.15	3.72	4.15	32.09
1990	8.98	4.97	3.42	2.22	1.71	2.94	.54	1.09	.50	6.18	5.00	3.39	40.94
Mean	6.16	4.39	3.99	2.64	2.17	1.73	.70	.94	1.84	3.11	6.03	7.09	40.96
Maximum	11.72	9.54	7.18	4.78	4.59	5.35	2.68	4.17	3.61	6.88	13.04	13.84	57.57
Minimum	.45	.83	1.09	.64	.89	.30	.00	.00	.00	.20	1.67	1.48	27.15
StdDev	2.90	2.18	1.71	1.10	1.06	1.25	.69	1.07	1.18	1.89	2.74	3.25	7.19

Dates of Spring and Fall Low Temperatures

N. Willamette Exp Stn, Aurora, Oregon

Year	Last Date in Spring of Low Temperatures (°F)				First Date in Fall of Low Temperatures (°F)			
	24°	28°	32°	36°	24°	28°	32°	36°
1963	1-Feb	18-Mar	18-Mar	13-May	1-Dec	20-Nov	19-Oct	18-Oct
1964	26-Feb	17-Apr	3-May	25-May	19-Nov	15-Nov	21-Oct	17-Oct
1965	***	3-Apr	8-May	28-Jun	18-Dec	29-Nov	26-Nov	17-Sep
1966	15-Feb	22-Mar	22-Mar	1-Jun	***	18-Oct	13-Oct	9-Oct
1967	***	19-Apr	29-Apr	25-May	13-Dec	26-Nov	23-Nov	15-Oct
1968	15-Feb	13-Apr	24-Apr	28-Apr	4-Nov	4-Nov	31-Oct	9-Oct
1969	30-Jan	14-Mar	30-Apr	4-May	29-Nov	27-Nov	18-Oct	4-Oct
1970	***	31-Mar	15-Apr	19-May	23-Nov	28-Oct	24-Sep	13-Sep
1971	2-Mar	17-Mar	12-Apr	21-May	28-Dec	28-Oct	16-Oct	30-Sep
1972	4-Feb	29-Mar	22-Apr	25-May	4-Dec	27-Nov	27-Sep	26-Sep
1973	27-Jan	19-Feb	29-Apr	1-Jun	***	3-Nov	2-Nov	1-Sep
1974	8-Mar	9-Mar	24-Mar	17-May	***	23-Dec	5-Oct	3-Oct
1975	30-Jan	6-Apr	20-May	25-May	***	12-Nov	8-Nov	31-Oct
1976	8-Feb	12-Mar	23-Apr	26-Jun	26-Nov	13-Nov	19-Oct	16-Oct
1977	3-Feb	17-Apr	12-May	12-May	***	8-Nov	4-Nov	17-Oct
1978	***	12-Feb	5-May	23-May	12-Nov	11-Nov	22-Oct	21-Oct
1979	3-Feb	3-Feb	21-Mar	29-May	***	14-Nov	8-Nov	1-Nov
1980	31-Jan	13-Feb	7-Apr	16-May	8-Dec	13-Nov	23-Oct	16-Oct
1981	***	16-Mar	19-Mar	11-May	***	28-Nov	13-Oct	12-Oct
1982	11-Feb	11-Feb	29-Apr	19-May	30-Dec	9-Nov	19-Oct	19-Oct
1983	***	4-Feb	14-Apr	25-Apr	20-Dec	20-Dec	16-Oct	1-Oct
1984	20-Jan	2-Feb	27-Apr	7-May	6-Dec	6-Dec	17-Nov	16-Oct
1985	5-Feb	14-Mar	12-May	12-May	13-Nov	11-Nov	9-Oct	8-Oct
1986	***	10-Feb	24-Apr	14-May	***	3-Dec	10-Nov	13-Oct
1987	21-Jan	25-Feb	30-Mar	20-Apr	26-Dec	29-Nov	18-Nov	13-Oct
1988	3-Feb	12-Mar	8-Apr	1-May	18-Dec	4-Dec	30-Nov	18-Sep
1989	3-Mar	4-Mar	3-Apr	13-May	***	2-Nov	29-Oct	3-Oct
1990	15-Feb	13-Mar	9-Apr	8-May	19-Dec	19-Dec	7-Oct	7-Oct

Probabilities

10%	27-Jan	8-Feb	21-Mar	30-Apr	12-Nov	31-Oct	6-Oct	17-Sep
20%	30-Jan	12-Feb	31-Mar	7-May	21-Nov	5-Nov	13-Oct	30-Sep
Median (50%)	4-Feb	13-Mar	22-Apr	16-May	6-Dec	14-Nov	21-Oct	10-Oct
80%	15-Feb	1-Apr	1-May	25-May	19-Dec	1-Dec	9-Nov	17-Oct
90%	2-Mar	14-Apr	9-May	1-Jun	26-Dec	9-Dec	19-Nov	19-Oct

*** Did not occur

Pendleton, Oregon

Latitude: 45° 40'

Longitude: 118° 51'

Elevation: 1490 ft.

County: Umatilla

Station Number: 356546

Agency: National Weather Service

Station History:

Latitude	Longitude	Elevation	Start Date	End Date
45° 40'	118° 43'	1200	1/1/28	2/2/34
45° 40'	118° 51'	1492	6/2/34	4/2/35
45° 40'	118° 51'	1489	4/2/35	1/1/48
45° 40'	118° 51'	1490	1/1/48	9/1/51
45° 40'	118° 51'	1490	10/1/51	5/1/52
45° 40'	118° 51'	1490	5/1/52	2/1/56
45° 40'	118° 51'	1490	1/1/57	10/1/60
45° 40'	118° 51'	1480	10/1/60	10/1/70
45° 40'	118° 51'	1490	10/1/70	present

Monthly Means and Extremes
Pendleton, Oregon

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Mean Temperature (°F)													
Maximum	39.7	46.9	54.2	61.3	70.0	79.5	87.8	86.2	76.3	63.8	48.9	40.5	62.9
Minimum	27.2	31.6	35.1	39.4	45.8	52.9	58.0	57.6	49.9	41.0	34.1	27.9	41.7
Mean	33.5	39.3	44.8	50.4	58.0	66.2	72.9	72.0	63.1	52.4	41.5	34.2	52.4
Extreme Temperature (°F)													
Maximum	68	72	79	91	100	108	108	113	98	92	77	67	113
Minimum	-12	-13	11	23	30	36	42	40	30	19	-12	-19	-19
Precipitation (inches)													
Monthly mean	1.51	1.14	1.16	1.04	.99	.64	.35	.53	.59	.86	1.58	1.63	12.02
Extreme 24 hr.	1.10	.57	1.00	1.24	1.05	.65	.88	1.05	1.10	1.40	1.35	1.25	1.40
Evaporation in inches			3.34	5.05	6.82	8.68	11.46	10.22	6.55	3.61			55.73
Average number of days													
Temperature													
Maximum 90° or more					.8	5.3	14.4	11.7	2.6	.1			34.8
Maximum 32° or less	8.6	2.7	.2								2.1	8.1	21.6
Minimum 32° or less	20.1	14.6	8.8	3.2	.1				.2	3.1	10.8	19.7	80.5
Minimum 0° or less	1.4	.4									.1	1.2	3.1
Precipitation													
.01 inches or more	12.0	10.9	10.6	8.7	7.2	5.8	2.9	3.6	4.7	6.1	11.7	12.2	96.3
.10 inches or more	5.0	4.0	4.3	3.2	3.1	2.2	1.0	1.4	1.9	3.0	4.9	5.5	39.5
.50 inches or more	.4	.1	.2	.3	.3	.1	.1	.3	.1	.2	.6	.5	3.3
1.00 inches or more			.1	.1						.1			.3
Degree Days													
Heating days @ 65°F	977	728	626	441	241	71	12	14	119	395	706	954	5283
Growing days @ 50°F	4	6	17	78	254	486	709	681	395	126	13	4	2773

Total Monthly Precipitation (in inches)
Pendleton, Oregon

Year	Jan	Feb	Mar	Apr	Mar	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1961	.47	2.46	2.25	1.30	.94	.28	.08	.09	.17	.70	1.46	1.27	11.47
1962	.70	.72	1.14	.76	3.02	.15	.00	.43	.79	1.62	1.38	1.46	12.17
1963	1.40	1.67	.37	1.86	.65	.21	.32	.30	.70	.44	2.03	1.29	11.24
1964	1.07	.07	.66	.34	.03	1.01	.64	.21	.15	.80	1.93	3.23	10.14
1965	3.08	.37	.29	.65	.57	1.10	.51	1.21	.23	.19	1.95	.27	10.42
1966	2.19	.83	.96	.08	.07	.55	.79	.17	.43	.75	2.09	2.65	11.56
1967	1.59	.15	.89	1.05	.56	.41	.00	.00	.40	.64	.63	.45	6.77
1968	.59	1.82	.47	.17	.66	.89	.17	.61	.57	1.03	2.06	2.19	11.23
1969	2.88	.88	.57	2.05	1.40	.86	.02	.00	.42	1.13	.36	1.88	12.45
1970	3.92	1.48	.99	.63	.32	.57	.08	.03	.78	.81	1.78	.80	12.19
1971	.84	.69	1.11	1.15	1.41	1.73	.32	.14	1.03	.70	2.73	2.59	14.44
1972	.96	1.08	1.47	.68	1.97	.80	.58	.36	.16	.58	.70	2.31	11.65
1973	.50	1.09	.43	.27	.67	.15	.01	.08	1.34	1.71	3.76	4.68	14.69
1974	.79	1.57	.81	2.13	.26	.19	.90	.00	.00	.29	1.00	1.59	9.53
1975	3.53	1.30	.65	.97	.30	.28	.73	.67	.00	1.80	.84	1.98	13.05
1976	1.77	1.00	1.65	1.09	.92	.33	.16	1.77	.18	.54	.19	.44	10.04
1977	.48	.64	1.51	.18	1.87	.37	.06	2.58	1.17	.51	2.00	2.42	13.79
1978	2.82	1.60	1.03	2.78	.63	.76	.77	2.21	.92	.00	2.37	1.86	17.75
1979	1.43	1.72	1.18	1.17	.39	.21	.09	1.40	.30	1.68	1.83	.62	12.02
1980	2.48	1.39	1.60	.59	2.14	1.12	.77	.03	.59	1.22	.84	1.20	13.97
1981	.89	1.35	1.43	1.20	1.59	1.53	.94	.03	1.31	.86	1.91	2.31	15.35
1982	1.54	.77	1.22	.84	.31	.63	.51	.24	1.47	2.67	.34	2.20	12.74
1983	.86	1.57	2.82	.70	.73	1.44	.52	.56	.46	.84	1.67	3.42	15.59
1984	.53	1.74	1.83	1.70	1.02	1.13	.06	.44	.39	1.02	2.14	.92	12.92
1985	.44	1.33	1.13	.37	.44	.69	.34	.26	2.10	.89	2.11	1.27	11.37
1986	1.66	2.58	1.13	.43	1.18	.03	.48	.02	1.28	.80	2.12	.82	12.53
1987	1.48	.64	1.39	.47	.85	.38	.34	.05	.03	.00	.76	1.23	7.62
1988	1.86	.12	.95	2.47	1.56	.31	.01	.00	.31	.10	2.16	.37	10.22
1989	1.86	1.36	1.72	1.57	1.47	.57	.09	1.25	.12	.84	1.27	.21	12.33
1990	.77	.28	1.14	1.54	1.83	.58	.18	.62	.00	.78	.87	.84	9.43
Mean	1.51	1.14	1.16	1.04	.99	.64	.35	.53	.59	.86	1.58	1.63	12.02
Maximum	3.92	2.58	2.82	2.78	3.02	1.73	.94	2.58	2.10	2.67	3.76	4.68	17.75
Minimum	.44	.07	.29	.08	.03	.03	.00	.00	.00	.00	.19	.21	6.77
StdDev	.97	.64	.56	.71	.71	.44	.31	.69	.53	.58	.80	1.05	2.31

Dates of Spring and Fall Low Temperatures Pendleton, Oregon

Year	Last Date in Spring of Low Temperatures (°F)				First Date in Fall of Low Temperatures (°F)			
	24°	28°	32°	36°	24°	28°	32°	36°
1961	28-Jan	29-Jan	19-Apr	20-Apr	5-Nov	21-Oct	20-Oct	24-Sep
1962	27-Feb	2-Mar	4-May	4-May	24-Dec	28-Nov	15-Nov	7-Oct
1963	1-Feb	2-Feb	16-Apr	20-Apr	29-Nov	28-Nov	26-Oct	19-Oct
1964	24-Mar	18-Apr	23-Apr	25-May	15-Dec	15-Nov	6-Nov	3-Oct
1965	25-Mar	7-Apr	7-Apr	6-May	15-Dec	29-Nov	17-Sep	16-Sep
1966	19-Apr	19-Apr	19-Apr	1-Jun	***	23-Dec	14-Oct	13-Oct
1967	4-Mar	12-Mar	28-Apr	26-May	4-Nov	2-Nov	20-Oct	20-Oct
1968	16-Feb	13-Apr	5-May	5-May	20-Dec	19-Dec	28-Oct	3-Oct
1969	6-Feb	24-Mar	25-Mar	4-May	13-Oct	13-Oct	12-Oct	5-Oct
1970	2-Mar	16-Apr	11-May	13-May	29-Oct	15-Oct	13-Sep	12-Sep
1971	2-Mar	1-Apr	12-Apr	22-Apr	27-Oct	16-Oct	16-Oct	30-Sep
1972	6-Feb	11-Feb	30-Apr	1-May	22-Nov	30-Oct	29-Oct	25-Sep
1973	12-Feb	8-Apr	8-Apr	30-Apr	***	6-Nov	8-Oct	3-Oct
1974	13-Jan	20-Mar	13-Apr	17-May	23-Dec	23-Dec	6-Oct	5-Oct
1975	5-Apr	5-Apr	6-Apr	4-May	18-Nov	18-Nov	24-Oct	23-Oct
1976	5-Mar	12-Mar	17-Apr	26-May	26-Nov	23-Nov	18-Oct	17-Oct
1977	26-Jan	20-Feb	20-Apr	8-May	19-Nov	3-Nov	27-Oct	3-Oct
1978	2-Mar	5-Mar	12-Apr	30-May	1-Nov	25-Oct	22-Oct	13-Oct
1979	4-Feb	2-Mar	10-Mar	20-Apr	27-Nov	10-Nov	1-Nov	20-Oct
1980	6-Mar	2-Apr	7-Apr	25-Apr	6-Dec	26-Nov	23-Oct	10-Oct
1981	11-Feb	6-Mar	14-Apr	14-Apr	12-Dec	10-Nov	21-Oct	14-Oct
1982	11-Feb	8-Apr	20-Apr	5-May	14-Nov	20-Oct	18-Oct	30-Sep
1983	5-Feb	6-Feb	13-Apr	25-Apr	3-Dec	29-Nov	29-Sep	20-Sep
1984	21-Jan	3-Feb	30-Mar	4-May	4-Dec	20-Oct	16-Oct	24-Sep
1985	9-Feb	18-Feb	26-Apr	12-May	11-Nov	8-Oct	28-Sep	28-Sep
1986	20-Feb	20-Feb	5-May	6-May	9-Nov	9-Nov	9-Nov	12-Oct
1987	29-Mar	30-Mar	20-Apr	20-May	18-Nov	16-Nov	16-Oct	11-Oct
1988	4-Feb	28-Mar	9-Apr	4-May	1-Dec	27-Oct	27-Oct	26-Oct
1989	4-Mar	5-Mar	1-Apr	9-Apr	2-Nov	30-Oct	15-Oct	3-Oct
1990	20-Feb	25-Mar	27-Mar	8-May	7-Dec	6-Dec	7-Oct	6-Oct

Probabilities

10%	27-Jan	5-Feb	29-Mar	20-Apr	31-Oct	15-Oct	28-Sep	23-Sep
20%	4-Feb	19-Feb	6-Apr	24-Apr	4-Nov	20-Oct	7-Oct	27-Sep
Median (50%)	18-Feb	16-Mar	15-Apr	4-May	26-Nov	9-Nov	19-Oct	5-Oct
80%	5-Mar	7-Apr	26-Apr	17-May	15-Dec	28-Nov	27-Oct	14-Oct
90%	25-Mar	13-Apr	4-May	26-May	23-Dec	7-Dec	1-Nov	20-Oct

*** Did not occur

Squaw Butte Experiment Station, Oregon

Latitude: 43° 29'

Longitude: 119° 41'

Elevation: 4660 ft.

County: Harney

Station Number: 358029

Agency: Oregon State Agricultural Experiment Station

Station History:

Latitude	Longitude	Elevation	Start Date	End Date
43° 29'	119° 41'	4675	11/5/36	7/1/48
43° 29'	119° 41'	4680	7/1/48	10/1/72
43° 29'	119° 43'	4660	10/1/72	present

Monthly Means and Extremes
Squaw Butte, Oregon

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Mean Temperature (°F)													
Maximum	35.4	41.5	46.5	55.5	63.9	74.1	83.4	82.4	73.8	62.1	45.7	37.3	58.5
Minimum	17.5	22.7	25.2	29.5	35.6	43.8	50.2	49.5	42.5	34.4	26.3	20.7	33.2
Mean	26.3	32.2	35.8	42.5	49.7	59.0	66.7	66.0	58.2	48.1	36.0	28.7	45.8
Extreme Temperature (°F)													
Maximum	55	60	70	82	88	96	99	104	95	87	72	59	104
Minimum	-17	-16	5	11	16	23	30	30	19	7	-3	-20	-20
Precipitation (inches)													
Monthly mean	1.27	.72	.86	.73	1.13	.94	.36	.73	.52	.71	1.23	1.22	10.42
Extreme 24 hr.	1.23	.50	.75	1.27	1.00	1.36	1.04	1.08	.98	1.29	.73	2.05	2.05
Average number of days													
Temperature													
Maximum 90° or more						2.0	7.4	7.6	1.0				18.0
Maximum 32° or less	9.8	2.9	1.2							.1	2.1	8.2	24.3
Minimum 32° or less	28.6	25.7	26.4	19.9	11.3	2.5	.4	.4	3.7	12.7	23.3	27.1	181.9
Minimum 0° or less	1.9	.5									.1	1.0	3.5
Precipitation													
.01 inches or more	8.2	6.4	7.3	5.3	6.9	5.7	2.7	3.9	2.9	5.1	8.0	7.0	69.3
.10 inches or more	4.5	3.2	3.2	2.8	3.8	3.0	1.2	2.1	1.4	2.3	4.4	3.3	35.3
.50 inches or more	.4	.1	.2	.3	.5	.3		.3	.4	.2	.4	.5	3.6
1.00 inches or more	.1					.1			.1			.1	.4
Degree Days													
Heating days @ 65°F	1178	914	892	656	463	212	65	84	229	514	849	1078	7135
Growing days @ 50°F	0	0	2	29	99	285	513	492	271	84	3	0	1778

Total Monthly Precipitation (in inches)
Squaw Butte, Oregon

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1961	.40	1.08	.94	.10	1.36	.90	.44	.40	.58	.76	.85	1.50	9.31
1962	.75	1.52	.48	.20	.78	.10	.00	.07	.20	3.38	.90	.60	8.98
1963	1.15	1.35	.50	2.35	1.45	1.59	.23	.21	1.29	.37	.68	.98	12.15
1964	2.42	.05	.90	.39	.77	2.45	1.38	1.18	.05	.59	1.16	4.91	16.25
1965	1.82	.23	.12	.80	.26	2.54	.90	2.04	.00	.10	1.70	.35	10.86
1966	1.15	.61	.99	.27	1.00	1.56	.13	.35	1.44	.14	2.39	2.52	12.55
1967	1.89	.15	1.31	1.01	.99	.51	.05	.91	.32	1.16	.39	.35	9.04
1968	1.05	.75	.05	.03	.50	.32	.08	2.72	.20	.86	2.45	.90	9.91
1969	1.80	.50	.35	.70	1.00	1.92	.05	.00	.35	1.04	.67	2.05	10.43
1970	2.80	.15	.45	.40	1.14	.82	.32	.00	.08	.94	2.40	1.16	10.66
1971	1.55	.41	1.20	1.10	1.96	.63	.37	.01	.74	1.06	1.35	1.15	11.53
1972	1.00	.70	.95	.30	1.37	.63	.04	.02	.38	.30	1.08	1.50	8.27
1973	.70	.55	.43	.29	1.85	.03	.07	.82	.85	.67	2.40	1.43	10.09
1974	.55	.60	1.43	.59	.58	.19	.66	.08	.00	.32	.19	1.42	6.61
1975	.95	1.35	1.10	.70	1.10	.31	1.02	.38	.05	1.17	.58	1.35	10.06
1976	1.75	1.10	.03	.70	.25	.77	.42	3.45	.58	.26	.34	.05	9.70
1977	.52	.40	.25	.35	2.02	1.52	.11	.66	1.34	.34	1.88	1.45	10.84
1978	1.65	.75	1.30	.00	.60	.92	.14	.70	.53	.02	1.35	.55	8.51
1979	2.58	1.40	1.00	.82	.26	.68	.05	1.68	.70	1.02	1.50	1.05	12.74
1980	.70	1.25	1.05	.35	1.51	1.63	.65	.02	1.06	1.07	.62	.50	10.41
1981	1.35	.35	1.10	1.18	1.99	.64	.07	.12	.44	1.49	.00	M	8.73
1982	M	M	M	M	M	M	M	M	M	M	M	M	M
1983	M	M	M	M	M	M	M	M	M	M	M	M	M
1984	M	M	M	M	M	M	M	M	M	M	M	M	M
1985	M	M	M	M	M	M	M	M	M	M	M	M	M
1986	M	M	M	M	M	M	M	M	M	M	M	M	M
1987	.81	1.03	1.01	1.14	1.39	1.13	1.69	.32	.00	.01	1.69	1.25	11.47
1988	.78	.56	.51	2.30	1.20	.75	.00	.53	.15	.00	1.92	.81	9.51
1989	1.14	.96	2.86	.98	1.74	.31	.17	.98	1.49	.28	.50	.30	11.71
1990	.56	.26	1.17	.52	1.07	.57	.04	.66	.30	.45	1.04	M	6.64
Mean	1.27	.72	.86	.73	1.13	.94	.36	.73	.52	.71	1.23	1.22	10.55
Maximum	2.80	1.52	2.86	2.35	2.02	2.54	1.69	3.45	1.49	3.38	2.45	4.91	16.25
Minimum	.40	.05	.03	.03	.25	.03	.00	.00	.00	.00	.19	.05	6.61
StdDev	.67	.44	.59	.59	.54	.69	.45	.89	.48	.70	.73	.99	1.95

Dates of Spring and Fall Low Temperatures **Squaw Butte, Oregon**

Year	Last Date in Spring of Low Temperatures (°F)				First Date in Fall of Low Temperatures (°F)			
	24	28	32	36	24	28	32	36
1961	27-May	30-May	30-May	9-Jun	8-Oct	22-Sep	6-Sep	3-Sep
1962	4-Jun	6-Jun	6-Jul	18-Jul	5-Oct	29-Sep	29-Sep	23-Aug
1963	22-Apr	10-May	29-Jun	29-Jun	24-Oct	24-Oct	1-Aug	1-Aug
1964	23-May	25-May	27-Jun	27-Jun	16-Oct	18-Sep	19-Aug	1-Aug
1965	17-May	23-May	27-Jun	12-Jul	17-Sep	16-Sep	29-Aug	13-Aug
1966	17-May	23-May	27-Jun	25-Jul	14-Oct	3-Oct	12-Sep	30-Aug
1967	29-Apr	26-May	3-Jun	12-Jun	16-Oct	6-Oct	12-Sep	12-Sep
1968	6-May	16-May	29-Jun	20-Jul	8-Oct	22-Sep	16-Sep	15-Aug
1969	30-Apr	4-May	27-Jun	28-Jun	5-Oct	14-Sep	5-Aug	5-Aug
1970	12-May	30-May	30-Jun	30-Jun	24-Sep	13-Sep	9-Sep	9-Sep
1971	20-May	30-May	10-Jul	10-Jul	14-Oct	18-Sep	3-Sep	23-Aug
1972	1-May	12-Jun	12-Jun	22-Jul	22-Sep	20-Sep	7-Sep	15-Aug
1973	28-Apr	18-Jun	2-Jul	2-Jul	1-Nov	1-Oct	1-Oct	1-Sep
1974	18-May	21-May	11-Jul	11-Jul	8-Nov	4-Oct	27-Sep	14-Aug
1975	5-May	25-May	25-May	30-Jul	7-Oct	7-Oct	8-Sep	24-Aug
1976	20-May	20-May	2-Jul	2-Jul	26-Nov	17-Oct	4-Oct	17-Aug
1977	6-May	28-May	2-Jun	2-Jun	3-Nov	31-Oct	22-Sep	8-Sep
1978	5-May	25-May	15-Jun	25-Jun	29-Oct	22-Oct	8-Sep	17-Aug
1979	19-Apr	7-Jun	2-Jul	2-Jul	1-Nov	30-Oct	20-Oct	9-Sep
1980	11-Apr	2-Jun	4-Jun	27-Jun	22-Oct	22-Oct	3-Sep	3-Sep
1981	28-Jun	28-Jun	8-Jul	26-Jul	30-Oct	30-Oct	23-Sep	21-Sep
1982	4-May	27-May	6-Jun	8-Jun	18-Oct	18-Oct	13-Sep	10-Sep
1983	9-May	10-May	3-Jul	10-Jul	7-Nov	15-Oct	19-Sep	9-Sep
1984	7-May	8-Jun	8-Jun	22-Jun	1-Oct	1-Oct	12-Sep	12-Sep
1985	4-May	12-May	30-May	24-Jun	8-Oct	8-Oct	10-Sep	10-Sep
1986	11-May	22-May	5-Jul	17-Jul	8-Nov	8-Nov	16-Sep	14-Sep
1987	20-Apr	20-May	1-Jun	17-Jul	15-Nov	16-Oct	16-Sep	17-Aug
1988	1-May	30-May	29-Jun	6-Jul	7-Nov	18-Sep	17-Sep	10-Sep
1989	19-May	19-May	29-May	20-Jun	28-Oct	15-Oct	3-Oct	10-Sep
1990	8-May	16-May	13-Jun	13-Jun	7-Oct	6-Oct	6-Oct	2-Oct

Probabilities

10	21-Apr	11-May	30-May	11-Jun	30-Sep	17-Sep	28-Aug	12-Aug
20	29-Apr	18-May	2-Jun	21-Jun	6-Oct	19-Sep	5-Sep	15-Aug
Median (50%)	6-May	25-May	27-Jun	2-Jul	17-Oct	6-Oct	12-Sep	2-Sep
80	19-May	2-Jun	2-Jul	17-Jul	3-Nov	22-Oct	27-Sep	10-Sep
90	23-May	8-Jun	6-Jul	22-Jul	8-Nov	30-Oct	3-Oct	12-Sep

The Dalles, Oregon

Latitude: 45° 36'

Longitude: 121° 12'

Elevation: 100 ft.

County: Wasco

Station Number: 358407

Agency: The Dalles Fire Department

Station History:

Latitude	Longitude	Elevation	Start Date	End Date
45° 36'	121° 12'	109	7/1/1850	3/31/1866
45° 36'	121° 12'	109	12/1/1874	12/31/1874
45° 36'	121° 12'	109	1/1/1875	8/31/12
45° 36'	121° 12'	106	3/20/13	9/30/14
45° 36'	121° 10'	106	10/1/14	2/28/41
45° 36'	121° 12'	96	3/1/41	2/14/43
45° 31'	121° 10'	300	2/15/43	11/30/43
45° 36'	121° 12'	102	2/22/44	1/1/48
45° 36'	121° 12'	100	1/1/48	12/1/48
45° 36'	121° 12'	100	1/1/49	6/1/56
45° 36'	121° 12'	100	6/1/56	7/1/67
45° 36'	121° 12'	100	2/1/75	present

Monthly Means and Extremes
The Dalles, Oregon

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Mean Temperature (°F)													
Maximum	43.2	49.7	58.4	65.8	73.2	80.9	87.8	87.8	80.9	68.3	52.2	43.1	65.9
Minimum	29.9	32.7	36.9	42.3	48.4	55.5	60.0	59.3	51.2	42.3	36.1	30.5	43.8
Mean	36.6	41.2	47.7	54.1	60.8	68.2	73.9	72.6	66.0	55.3	44.2	36.8	54.8
Extreme Temperature (°F)													
Maximum	65	70	79	94	107	110	109	109	104	92	75	68	110
Minimum	-1	-1	22	28	34	40	42	35	32	26	0	-6	-6
Precipitation (inches)													
Monthly mean	2.22	1.84	1.18	.74	.48	.41	.20	.55	.49	.89	1.98	2.94	13.92
Extreme 24 hr.	1.50	1.78	1.06	1.03	.52	.87	1.04	.82	.76	1.38	1.30	2.00	2.00
Average number of days													
Temperature													
Maximum 90° or more				.1	2.0	7.0	13.6	13.4	5.2	.1			41.3
Maximum 32° or less	3.4	1.0									.6	3.2	8.1
Minimum 32° or less	17.6	11.8	6.2	1.0					.1	1.2	8.5	17.0	63.3
Minimum 0° or less	.1	.1									.1	.4	.6
Precipitation													
.01 inches or more	12.2	11.8	11.2	7.1	5.1	4.0	1.9	3.5	4.2	7.1	13.9	13.3	95.2
.10 inches or more	5.9	5.3	4.3	2.3	1.7	1.1	.6	1.4	1.7	2.8	6.2	6.8	40.0
.50 inches or more	1.1	.7	.2	.2		.1	.1	.2	.2	.3	.8	1.6	5.4
1.00 inches or more	.1	.1	.1							.1	.1	.5	.9
Degree Days													
Heating days @ 65°F	883	671	538	327	168	44	7	6	63	298	623	863	4490
Growing days @ 50°F	2	4	29	147	336	546	736	722	478	186	19	2	3206

Total Monthly Precipitation (in inches)
The Dalles, Oregon

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1961	1.76	4.24	2.40	.87	1.01	.54	.17	.26	.30	1.15	2.42	3.19	18.31
1962	.55	2.01	1.83	.94	1.04	.02	.00	.72	.49	2.80	1.49	1.72	13.61
1963	.65	2.35	1.28	1.33	.41	.04	.04	.14	.66	.40	2.55	1.62	11.47
1964	3.18	.13	.55	.15	.02	.69	.06	.14	.00	.53	3.19	9.05	17.69
1965	3.05	.41	1.56	.99	.30	.36	.13	.60	.15	.25	2.37	.73	10.90
1966	3.77	.65	1.12	.00	.27	.11	.75	.00	.79	.84	2.76	3.41	14.47
1967	2.03	.20	.99	1.21	.10	.30	.00	M	M	M	M	M	4.83
1968	M	M	M	M	M	M	M	M	M	M	M	M	M
1969	M	M	M	M	M	M	M	M	M	M	M	M	M
1970	M	M	M	M	M	M	M	M	M	M	M	M	M
1971	M	M	M	M	M	M	M	M	M	M	M	M	M
1972	M	M	M	M	M	M	M	M	M	M	M	M	M
1973	M	M	M	M	M	M	M	M	M	M	M	M	M
1974	M	M	M	M	M	M	M	M	M	M	M	M	M
1975	M	2.72	1.66	.98	.10	.65	.26	.86	.00	1.87	2.15	2.80	14.05
1976	1.33	1.79	1.08	.96	.24	.13	.14	.56	.24	.26	.56	.33	7.62
1977	.42	.76	.45	.00	.83	.30	.30	.84	.68	.20	3.14	5.94	13.86
1978	3.21	1.91	.62	.69	.41	.00	.20	.90	.58	.12	.83	1.56	11.03
1979	1.55	2.12	.79	.85	.16	.13	.04	1.17	.48	2.29	1.81	1.31	12.70
1980	5.43	2.40	1.02	1.32	.19	.86	.00	.09	.39	.72	2.00	5.24	19.66
1981	1.52	2.51	.29	.17	.61	1.53	1.04	.00	1.03	1.00	1.99	6.43	18.12
1982	1.80	1.79	.65	1.01	.25	.29	.04	.16	1.90	2.33	1.21	3.91	15.34
1983	3.41	4.32	3.21	.46	.45	.11	.38	1.77	.89	.58	3.78	3.26	22.62
1984	.97	1.81	1.72	.99	.76	.76	.00	.00	.48	1.26	4.32	1.29	14.36
1985	.08	1.06	1.00	.12	.30	.89	.02	.29	.43	.75	1.10	1.73	7.77
1986	3.97	4.87	.99	.12	.43	.12	.15	.07	1.11	.47	1.90	1.58	15.78
1987	2.85	2.16	1.29	.48	.51	.06	.57	.07	.02	.05	.83	5.38	14.27
1988	2.44	.17	.91	1.48	.15	1.11	.08	.00	.18	.00	3.47	.59	10.58
1989	1.99	.58	1.89	.87	.57	.44	.16	.85	.10	.70	.68	1.25	10.08
1990	3.28	.58	.71	1.72	1.84	.35	.07	1.22	.13	.69	.96	1.48	13.03
Mean	2.24	1.81	1.22	.77	.48	.43	.20	.49	.50	.88	2.07	2.90	13.97
Maximum	5.43	4.87	3.21	1.72	1.84	1.53	1.04	1.77	1.90	2.80	4.32	9.05	22.62
Minimum	.08	.13	.29	.00	.02	.00	.00	.00	.00	.00	.56	.33	7.62
StdDev	1.35	1.35	.68	.50	.41	.40	.26	.50	.45	.79	1.07	2.26	3.84

Dates of Spring and Fall Low Temperatures The Dalles, Oregon

Year	Last Date in Spring of Low Temperatures (°F)				First Date in Fall of Low Temperatures (°F)			
	24°	28°	32°	36°	24°	28°	32°	36°
1961	28-Jan	28-Jan	19-Apr	19-Apr	16-Nov	5-Nov	20-Oct	18-Oct
1962	28-Feb	13-Mar	29-Mar	31-Mar	24-Dec	29-Nov	24-Nov	7-Nov
1963	2-Feb	2-Feb	2-Apr	2-Apr	11-Dec	28-Nov	26-Oct	19-Oct
1964	***	24-Mar	17-Apr	19-Apr	16-Dec	15-Nov	14-Nov	18-Oct
1965	19-Mar	24-Mar	26-Mar	5-May	15-Dec	14-Dec	25-Nov	17-Sep
1966	***	4-Mar	19-Apr	19-Apr	***	26-Dec	23-Nov	14-Oct
1967	***	12-Mar	14-Apr	28-Apr	***	***	***	***
1968	M	M	M	M	M	M	M	M
1969	M	M	M	M	M	M	M	M
1970	M	M	M	M	M	M	M	M
1971	M	M	M	M	M	M	M	M
1972	M	M	M	M	M	M	M	M
1973	M	M	M	M	M	M	M	M
1974	M	M	M	M	M	M	M	M
1975	10-Feb	5-Apr	12-Apr	29-Apr	18-Nov	8-Nov	7-Nov	11-Aug
1976	5-Mar	5-Mar	3-Apr	23-Apr	27-Nov	19-Oct	18-Oct	15-Oct
1977	27-Jan	29-Jan	16-Mar	30-Mar	19-Nov	19-Nov	4-Nov	4-Oct
1978	6-Jan	12-Feb	16-Mar	17-Apr	12-Nov	1-Nov	26-Oct	22-Oct
1979	5-Feb	3-Mar	10-Mar	23-Mar	23-Nov	23-Nov	19-Nov	1-Nov
1980	2-Feb	16-Feb	2-Apr	13-Apr	***	1-Dec	23-Oct	22-Oct
1981	11-Feb	13-Feb	13-Apr	15-Apr	***	28-Nov	22-Oct	14-Oct
1982	11-Feb	25-Feb	20-Apr	21-Apr	27-Dec	11-Nov	19-Oct	18-Oct
1983	***	7-Feb	10-Apr	16-Apr	17-Dec	8-Dec	29-Nov	29-Sep
1984	20-Jan	20-Feb	6-Mar	9-Apr	18-Dec	3-Dec	1-Nov	15-Oct
1985	13-Feb	27-Feb	22-Apr	14-May	11-Nov	9-Oct	30-Sep	29-Sep
1986	9-Feb	19-Feb	21-Feb	6-May	10-Nov	10-Nov	10-Nov	12-Oct
1987	25-Feb	28-Feb	30-Mar	20-Apr	***	13-Dec	17-Nov	16-Oct
1988	4-Feb	24-Feb	17-Mar	10-Apr	16-Dec	15-Dec	30-Nov	27-Oct
1989	16-Feb	4-Mar	20-Mar	30-Mar	***	11-Dec	29-Oct	15-Oct
1990	16-Feb	19-Feb	25-Mar	28-Mar	19-Dec	19-Dec	16-Nov	8-Oct

Probabilities

10%	25-Jan	3-Feb	11-Mar	30-Mar	11-Nov	1-Nov	19-Oct	29-Sep
20%	31-Jan	12-Feb	16-Mar	31-Mar	16-Nov	8-Nov	22-Oct	4-Oct
Median (50%)	10-Feb	25-Feb	2-Apr	17-Apr	11-Dec	28-Nov	5-Nov	15-Oct
80%	19-Feb	9-Mar	15-Apr	26-Apr	17-Dec	12-Dec	22-Nov	21-Oct
90%	29-Feb	21-Mar	19-Apr	3-May	21-Dec	14-Dec	24-Nov	26-Oct

*** Did not occur

M=Missing

Tillamook, Oregon

Latitude: 45° 27'

Longitude: 123° 52'

Elevation: 10 ft.

County: Tillamook

Station Number: 358494

Agency: Radio Station KTIL

Station History:

Latitude	Longitude	Elevation	Start Date	End Date
45° 26'	123° 51'	10	2/1/1889	7/30/1894
45° 28'	123° 51'	23	1/1/1894	10/31/1894
45° 28'	123° 51'	14	1/1/1896	8/31/12
45° 27'	123° 51'	20	6/8/13	1/31/15
45° 28'	123° 51'	20	4/1/15	5/31/17
45° 27'	123° 51'	20	6/1/17	5/31/18
45° 27'	123° 51'	20	4/1/19	5/31/20
45° 27'	123° 51'	20	2/1/22	6/30/23
45° 27'	123° 51'	20	5/1/25	1/31/26
45° 27'	123° 51'	23	5/1/26	1/31/29
45° 28'	123° 51'	23	9/1/32	4/30/47
45° 29'	123° 51'	15	10/24/47	7/1/48
45° 29'	123° 51'	40	7/1/48	1/1/53
45° 28'	123° 51'	20	2/1/53	3/1/56
45° 27'	123° 49'	30	3/1/56	7/1/65
45° 27'	123° 52'	10	7/1/65	present

Monthly Means and Extremes
Tillamook, Oregon

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Mean Temperature (°F)													
Maximum	49.9	52.9	54.5	56.9	60.8	64.7	67.3	68.5	68.6	62.8	54.6	49.8	59.3
Minimum	35.7	36.9	36.9	38.5	42.4	46.7	49.2	49.5	46.4	42.2	39.1	36.1	41.6
Mean	42.8	44.9	45.7	47.7	51.6	55.7	58.2	59.0	57.5	52.5	46.8	42.9	50.4
Extreme Temperature (°F)													
Maximum	69	73	73	84	86	92	102	102	97	92	80	66	102
Minimum	11	8	21	23	27	31	35	34	27	22	14	4	4
Precipitation (inches)													
Monthly mean	13.56	9.94	10.16	6.05	4.43	3.20	1.60	1.75	3.76	7.12	13.06	13.93	88.56
Extreme 24 hr.	5.22	2.94	3.75	2.92	1.68	2.50	2.00	1.57	2.65	3.57	4.26	4.92	5.22
Average number of days													
Temperature													
Maximum 90° or more							.2	.2	.5				.8
Maximum 32° or less	.3	.1										.6	1.0
Minimum 32° or less	10.7	8.0	8.8	5.7	1.7				.6	3.3	6.5	9.8	55.1
Minimum 0° or less													
Precipitation													
.01 inches or more	20.9	18.9	20.7	17.0	14.2	9.8	6.4	6.3	10.0	14.4	21.0	22.2	181.7
.10 inches or more	17.6	16.0	17.2	12.8	10.0	6.9	3.8	4.1	7.4	11.1	17.8	18.5	143.3
.50 inches or more	9.5	7.5	8.5	4.0	3.1	2.1	.9	1.2	2.8	5.5	10.1	9.8	65.0
1.00 inches or more	4.3	2.8	2.5	1.0	.6	.6	.3	.2	.9	2.3	4.0	4.4	23.8
Degree Days													
Heating days @ 65°F	689	568	599	520	415	281	212	188	228	390	545	682	5318
Growing days @ 50°F	8	15	14	26	80	174	255	280	228	107	27	8	1222

Total Monthly Precipitation (in inches)
Tillamook, Oregon

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1961	12.51	22.90	17.42	5.10	5.15	1.10	.51	1.45	2.03	9.50	10.56	14.15	102.38
1962	7.67	8.48	9.97	8.53	4.39	1.57	.61	3.64	5.46	7.49	19.81	7.44	85.06
1963	5.47	10.59	8.83	7.99	3.26	3.74	2.38	5.12	2.62	10.49	17.72	10.64	88.85
1964	25.34	4.44	10.07	4.87	2.66	4.30	3.63	2.90	2.87	2.60	14.85	19.18	97.71
1965	23.06	6.44	1.64	5.56	3.08	1.02	.59	.85	1.02	4.12	14.29	14.69	76.36
1966	14.23	7.09	13.12	2.87	1.98	1.88	.34	1.02	2.14	6.55	12.08	18.69	81.99
1967	17.08	8.57	12.46	6.64	1.52	.69	.00	.07	3.09	11.18	8.11	11.46	80.87
1968	12.55	9.18	10.50	5.92	4.92	6.80	.95	6.53	3.89	12.82	16.02	19.27	109.35
1969	13.68	6.78	4.55	5.69	4.77	6.08	.64	.61	5.44	7.80	7.80	16.19	80.03
1970	19.39	7.07	6.21	9.77	3.56	1.17	.70	.23	5.71	7.43	11.80	22.38	95.42
1971	25.10	9.46	14.06	6.16	3.56	3.67	2.90	1.43	7.77	7.94	12.98	22.41	117.44
1972	18.51	11.92	13.61	11.22	1.97	2.15	1.15	.44	5.84	2.40	11.14	18.54	98.89
1973	9.01	3.22	10.08	3.58	4.44	5.62	.14	.84	6.11	9.71	22.07	20.07	94.89
1974	16.92	12.46	14.62	7.58	6.65	2.65	4.87	.47	.78	2.61	14.34	18.45	102.40
1975	19.71	11.84	9.28	5.30	4.46	2.52	1.01	3.98	.07	13.77	14.15	19.80	105.89
1976	14.29	11.38	9.71	5.26	3.28	1.31	2.77	2.22	1.70	3.32	2.57	4.53	62.34
1977	3.25	6.81	13.50	2.34	8.87	1.66	.83	3.80	7.80	7.03	14.59	19.53	90.01
1978	9.67	7.49	4.11	8.10	5.86	3.41	1.03	4.16	6.94	1.80	9.08	6.32	67.97
1979	4.17	13.65	6.92	5.32	4.20	3.07	1.92	1.12	5.21	12.56	10.90	16.57	85.61
1980	10.42	9.99	9.73	6.20	3.38	2.67	.56	1.15	3.41	3.06	13.98	17.56	82.11
1981	4.62	8.67	8.38	8.53	5.19	7.24	.68	.55	4.78	13.43	10.24	16.25	88.56
1982	18.85	13.44	10.12	9.10	1.19	1.65	2.27	1.13	5.94	7.25	11.02	15.99	97.95
1983	18.70	15.06	13.09	3.64	5.19	7.56	5.37	1.31	2.21	2.67	19.63	10.29	104.72
1984	9.92	11.24	7.28	7.73	8.15	6.07	1.09	.32	4.37	10.19	18.32	10.14	94.82
1985	.79	8.26	9.66	3.04	2.34	4.00	.75	1.27	4.92	9.79	12.51	3.88	61.21
1986	14.07	12.05	7.72	6.00	5.50	1.13	3.28	.26	5.59	5.38	11.99	6.12	79.09
1987	12.90	8.25	16.02	3.72	6.20	1.38	1.70	.89	1.31	.62	5.88	13.01	71.88
1988	10.70	5.47	10.09	6.38	7.33	3.34	1.56	.81	2.61	2.61	20.52	10.20	81.62
1989	12.77	8.66	16.35	2.61	4.19	2.78	3.09	2.65	.59	6.54	9.56	6.57	76.36
1990	21.41	17.27	5.80	6.83	5.63	3.86	.63	1.16	.44	11.02	13.29	7.59	94.93
Mean	13.56	9.94	10.16	6.05	4.43	3.20	1.60	1.75	3.76	7.12	13.06	13.93	88.56
Maximum	25.34	22.90	17.42	11.22	8.87	7.56	5.37	6.53	7.80	13.77	22.07	22.41	117.44
Minimum	.79	3.22	1.64	2.34	1.19	.69	.00	.07	.07	.62	2.57	3.88	61.21
StdDev	6.45	3.98	3.77	2.22	1.88	2.00	1.38	1.62	2.26	3.88	4.42	5.59	13.73

Dates of Spring and Fall Low Temperatures **Tillamook, Oregon**

Year	Last Date in Spring of Low Temperatures (°F)				First Date in Fall of Low Temperatures (°F)			
	24	28	32	36	24	28	32	36
1961	3-Jan	7-Apr	26-Apr	21-Jun	15-Nov	4-Nov	23-Sep	6-Sep
1962	28-Mar	3-Apr	16-May	3-Jul	24-Dec	23-Nov	16-Sep	16-Sep
1963	29-Jan	2-Apr	10-May	27-Jun	28-Nov	28-Nov	19-Oct	18-Oct
1964	27-Feb	18-Apr	25-May	28-Jun	15-Nov	26-Oct	3-Oct	26-Sep
1965	24-Mar	8-May	14-May	28-Jun	14-Dec	25-Nov	17-Sep	17-Sep
1966	20-Jan	27-May	31-May	5-Jun	***	21-Dec	9-Oct	13-Sep
1967	***	19-Apr	26-May	26-May	13-Dec	21-Nov	20-Oct	15-Oct
1968	28-Jan	17-Apr	2-May	20-Jun	20-Dec	19-Dec	2-Oct	28-Sep
1969	14-Mar	14-Mar	6-May	15-May	***	24-Nov	11-Oct	29-Aug
1970	11-Jan	18-May	23-May	23-May	19-Dec	26-Oct	13-Sep	17-Aug
1971	1-Mar	3-Apr	19-Apr	29-Jun	28-Oct	16-Oct	30-Sep	15-Sep
1972	3-Feb	30-Apr	25-May	25-May	4-Dec	27-Sep	25-Sep	25-Sep
1973	4-Feb	2-Apr	26-May	10-Jun	***	2-Nov	3-Oct	19-Aug
1974	11-Jan	13-Apr	17-Apr	24-Jun	***	6-Oct	5-Oct	27-Sep
1975	14-Apr	29-Apr	25-May	8-Jun	28-Nov	12-Nov	9-Nov	18-Sep
1976	6-Mar	14-Apr	3-Jun	27-Jun	26-Nov	26-Nov	20-Oct	8-Sep
1977	30-Jan	19-Apr	12-May	19-Jul	19-Nov	8-Nov	3-Oct	2-Oct
1978	11-Feb	31-Mar	6-May	30-May	10-Nov	1-Nov	21-Oct	12-Oct
1979	2-Feb	2-Feb	30-May	12-Jun	11-Nov	11-Nov	8-Nov	11-Sep
1980	6-Apr	6-Apr	3-May	4-Jun	8-Dec	22-Oct	9-Oct	9-Oct
1981	8-Feb	13-Apr	25-Apr	12-May	27-Nov	4-Nov	13-Oct	11-Oct
1982	10-Feb	25-Apr	5-May	7-Jun	30-Dec	9-Nov	18-Oct	15-Sep
1983	***	4-Apr	14-Apr	4-May	20-Dec	29-Sep	19-Sep	19-Sep
1984	18-Jan	2-Feb	27-Apr	1-Jun	19-Dec	26-Nov	15-Oct	15-Oct
1985	11-Mar	18-Mar	15-May	1-Jul	13-Nov	9-Oct	30-Sep	28-Aug
1986	***	19-Feb	30-Apr	16-May	***	29-Nov	29-Nov	11-Sep
1987	25-Feb	25-Apr	25-Apr	17-Jun	13-Dec	28-Nov	16-Oct	17-Sep
1988	2-Feb	17-Mar	4-May	11-Jun	18-Dec	27-Oct	10-Sep	8-Sep
1989	15-Feb	3-Mar	13-May	21-May	***	29-Oct	15-Oct	18-Sep
1990	14-Feb	27-Mar	8-May	9-May	20-Dec	6-Dec	7-Oct	30-Sep

Probabilities

10	15-Jan	1-Mar	24-Apr	14-May	11-Nov	8-Oct	16-Sep	28-Aug
20	28-Jan	17-Mar	26-Apr	22-May	15-Nov	25-Oct	24-Sep	8-Sep
Median (50%)	10-Feb	6-Apr	9-May	9-Jun	6-Dec	8-Nov	8-Oct	17-Sep
80	10-Mar	25-Apr	25-May	27-Jun	19-Dec	26-Nov	19-Oct	3-Oct
90	25-Mar	30-Apr	26-May	29-Jun	20-Dec	29-Nov	22-Oct	12-Oct

*** Did not occur

Union, Oregon

Latitude: 45° 13'

Longitude: 117° 53'

Elevation: 2770 ft.

County: Union

Station Number: 358746

Agency: Oregon State Agricultural Experiment Station

Station History:

Latitude	Longitude	Elevation	Start Date	End Date
45° 13'	117° 52'	2787	10/6/11	2/28/12
45° 13'	117° 53'	2765	3/1/12	7/1/48
45° 13'	117° 53'	2770	7/1/48	9/1/51
45° 13'	117° 53'	2770	10/1/51	2/1/69
45° 13'	117° 53'	2770	2/1/69	4/1/73
45° 13'	117° 53'	2770	4/1/73	present

Monthly Means and Extremes
Union, Oregon

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
Mean Temperature (°F)													
Maximum	36.5	43.0	50.4	57.9	65.6	74.1	83.4	83.7	73.8	62.4	47.3	38.1	59.7
Minimum	23.5	27.4	29.9	33.8	39.4	45.9	49.5	48.7	41.0	34.0	30.6	24.8	35.7
Mean	30.0	35.2	40.2	45.9	52.5	60.0	66.5	66.2	57.4	48.2	39.0	31.5	47.7
Extreme Temperature (°F)													
Maximum	61	65	76	90	94	97	104	108	98	89	73	59	108
Minimum	-16	-13	4	17	24	29	34	29	23	12	-11	-24	-24
Precipitation (inches)													
Monthly mean	1.16	.90	1.18	1.24	1.64	1.56	.61	.94	1.04	1.00	1.32	1.19	13.78
Extreme 24 hr.	1.45	1.25	.79	1.10	1.33	1.24	1.06	1.59	1.00	.90	.90	.90	1.59
Evaporation in inches				3.17	4.65	6.10	7.44	6.49	4.18	2.70			34.73
Average number of days													
Temperature													
Maximum 90° or more					.4	2.1	8.4	9.0	2.0				21.8
Maximum 32° or less	9.2	2.5	.5							.1	1.2	6.4	19.8
Minimum 32° or less	24.9	20.3	20.0	13.3	4.1	.1		.1	2.9	13.0	17.3	24.1	140.1
Minimum 0° or less	1.2	.4									.1	1.0	2.7
Precipitation													
.01 inches or more	11.0	9.5	10.9	10.8	10.8	8.9	4.5	5.3	5.9	7.4	12.3	11.2	108.4
.10 inches or more	3.6	3.0	4.4	4.1	5.2	4.9	2.3	2.4	3.4	3.5	4.6	3.7	45.1
.50 inches or more	.4	.1	.2	.4	.7	.7	.1	.5	.4	.2	.2	.3	4.2
1.00 inches or more	.1			.1		.1		.1					.3
Degree Days													
Heating days @ 65°F	1086	840	770	574	393	184	62	68	244	519	781	1040	6561
Growing days @ 50°F	0	1	7	45	138	308	510	503	243	68	7	0	1830

Total Monthly Precipitation (in inches)
Union, Oregon

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1961	.28	1.22	1.50	1.08	2.01	.43	.00	.69	.65	.96	1.70	1.14	11.66
1962	1.21	.94	.68	.96	2.37	.29	.17	.18	.65	2.00	.82	.74	11.01
1963	.49	1.29	1.53	1.50	1.27	2.30	.38	.56	1.46	.51	1.07	.70	13.06
1964	.77	.22	.48	1.19	.64	2.90	1.15	.49	1.03	.43	.72	2.65	12.67
1965	3.59	.36	.20	.96	1.10	1.75	.90	3.33	.38	.12	.65	.06	13.40
1966	.78	.96	.79	.45	.65	1.09	.60	.91	1.14	1.11	1.55	2.30	12.33
1967	.88	.47	1.74	1.15	1.13	1.24	.11	.05	.36	1.69	1.09	1.27	11.18
1968	.52	1.30	.98	.32	1.07	1.37	.28	1.59	1.61	1.13	2.32	1.24	13.73
1969	1.21	.69	.32	2.40	1.87	2.61	.27	.00	.63	1.45	.71	1.27	13.43
1970	2.63	.61	1.44	.66	2.37	3.14	.70	.00	2.85	2.33	1.65	.79	19.17
1971	2.47	.82	1.05	1.14	2.29	2.00	.63	.44	1.64	.59	1.21	1.63	15.91
1972	1.46	.73	2.06	.74	1.09	1.96	.11	.61	1.38	.36	1.33	1.05	12.88
1973	.61	.21	.36	.14	1.65	.77	.08	.10	2.27	1.22	2.10	2.24	11.75
1974	1.00	.42	1.39	1.78	.80	.76	1.77	.16	.18	.23	.47	1.68	10.64
1975	2.53	.77	.84	1.37	1.37	1.36	.69	1.46	.17	1.82	.81	1.58	14.77
1976	.83	1.01	.60	2.34	.76	.65	.31	2.82	.28	.43	.55	.13	10.71
1977	.24	.69	.76	.44	3.84	.71	.21	.91	1.46	.51	2.03	2.32	14.12
1978	.92	.75	1.03	3.69	1.13	.60	.72	1.28	1.66	.18	1.57	1.66	15.19
1979	.47	.70	.93	1.85	1.32	1.76	.04	2.44	.32	1.19	1.18	.63	12.83
1980	1.15	.66	1.91	1.47	3.11	2.12	.81	.13	2.41	1.08	.89	1.39	17.13
1981	1.00	1.78	1.50	.85	2.45	2.94	.78	.01	.60	1.76	1.85	1.46	16.98
1982	1.77	1.45	1.18	.51	.93	1.31	2.88	.98	1.46	2.12	.81	1.41	16.81
1983	1.27	1.03	2.88	1.45	1.06	1.65	1.38	1.39	.56	.57	1.70	3.12	18.06
1984	1.34	.45	2.50	2.08	2.34	3.34	.60	2.41	1.26	1.80	1.54	.88	20.54
1985	.35	.29	.35	.73	1.86	1.14	.80	1.35	1.57	1.21	2.21	.35	12.21
1986	1.18	3.03	1.11	.67	1.44	.33	.49	.31	1.33	.58	1.90	.15	12.52
1987	.60	1.65	1.33	.46	1.23	1.62	1.13	.05	.09	.00	1.03	.79	9.98
1988	.83	1.03	1.21	1.51	1.96	1.83	.03	.14	.58	.19	1.98	.46	11.75
1989	1.31	.91	1.70	1.28	1.33	1.25	.21	2.73	1.09	.98	1.05	.22	14.06
1990	1.25	.62	.96	2.12	2.63	1.52	.20	.72	.05	1.37	1.11	.52	13.07
Mean	1.16	.90	1.18	1.24	1.64	1.56	.61	.94	1.04	1.00	1.32	1.19	13.79
Maximum	3.59	3.03	2.88	3.69	3.84	3.34	2.88	3.33	2.85	2.33	2.32	3.12	20.54
Minimum	.24	.21	.20	.14	.64	.29	.00	.00	.05	.00	.47	.06	9.98
StdDev	.77	.57	.64	.76	.77	.85	.61	.96	.73	.66	.54	.78	2.64

Dates of Spring and Fall Low Temperatures
Union, Oregon

Year	Last Date in Spring of Low Temperatures (°F)				First Date in Fall of Low Temperatures (°F)			
	24	28	32	36	24	28	32	36
1961	7-Apr	19-Apr	5-May	18-May	24-Sep	22-Sep	7-Sep	3-Sep
1962	26-Apr	4-May	4-Jun	19-Jul	17-Nov	7-Oct	9-Sep	23-Aug
1963	3-Apr	21-Apr	28-Apr	28-May	26-Oct	26-Oct	13-Oct	3-Sep
1964	23-May	23-May	26-May	28-Jun	18-Oct	19-Sep	19-Sep	20-Aug
1965	3-Apr	18-May	18-May	22-Jul	17-Sep	17-Sep	30-Aug	30-Aug
1966	28-Apr	23-May	25-Jun	25-Jun	9-Oct	9-Oct	3-Oct	30-Sep
1967	16-Apr	2-May	26-May	31-May	2-Nov	15-Oct	13-Sep	13-Sep
1968	27-Apr	5-May	16-May	12-Jun	8-Oct	2-Oct	22-Sep	3-Sep
1969	11-Apr	3-May	16-May	28-May	5-Oct	15-Sep	6-Sep	29-Aug
1970	21-Apr	14-May	14-May	31-May	15-Oct	14-Sep	9-Sep	9-Sep
1971	3-Apr	18-May	18-May	7-Jul	18-Oct	18-Sep	15-Sep	4-Sep
1972	30-Apr	30-Apr	25-May	26-May	30-Oct	29-Sep	10-Sep	7-Sep
1973	8-Apr	27-May	27-May	1-Jul	3-Oct	2-Oct	16-Sep	28-Aug
1974	20-Mar	13-May	31-May	26-Jun	6-Oct	3-Oct	27-Sep	12-Sep
1975	29-Apr	11-May	25-May	29-Jun	24-Oct	24-Oct	20-Sep	2-Sep
1976	2-Apr	21-May	4-Jun	27-Jun	18-Oct	15-Oct	4-Oct	27-Aug
1977	20-Apr	20-Apr	29-May	7-Jul	3-Nov	11-Oct	17-Sep	31-Aug
1978	15-Mar	13-Apr	31-May	31-May	22-Oct	13-Oct	17-Sep	16-Sep
1979	19-Mar	19-Apr	30-May	2-Jul	1-Nov	30-Oct	3-Oct	1-Oct
1980	31-Mar	11-Apr	16-Apr	5-Jun	22-Oct	17-Oct	29-Aug	21-Aug
1981	18-Mar	14-Apr	4-May	8-Jul	21-Oct	23-Sep	23-Sep	20-Sep
1982	25-Apr	5-May	11-May	8-Jun	19-Oct	5-Oct	15-Sep	14-Sep
1983	14-Apr	16-Apr	17-May	16-Jul	17-Oct	20-Sep	20-Sep	10-Sep
1984	5-Mar	7-May	22-May	7-Jul	16-Oct	25-Sep	25-Sep	12-Sep
1985	26-Apr	13-May	13-May	9-Jun	29-Sep	23-Sep	20-Sep	16-Sep
1986	30-Apr	16-May	23-May	23-May	12-Oct	11-Oct	22-Sep	11-Sep
1987	20-Apr	20-May	21-May	23-Jun	14-Oct	10-Oct	17-Sep	16-Sep
1988	9-Apr	2-May	7-May	30-Jun	27-Oct	23-Oct	18-Sep	21-Aug
1989	30-Mar	11-Apr	28-May	31-May	16-Oct	4-Oct	10-Sep	10-Sep
1990	30-Apr	9-May	16-May	25-May	7-Oct	7-Oct	7-Oct	21-Sep

Probabilities

10	18-Mar	13-Apr	4-May	25-May	2-Oct	17-Sep	6-Sep	22-Aug
20	30-Mar	19-Apr	12-May	30-May	6-Oct	21-Sep	9-Sep	28-Aug
Median (50%)	12-Apr	5-May	21-May	24-Jun	17-Oct	4-Oct	17-Sep	8-Sep
80	27-Apr	18-May	29-May	7-Jul	26-Oct	15-Oct	25-Sep	16-Sep
90	30-Apr	21-May	31-May	8-Jul	1-Nov	23-Oct	3-Oct	20-Sep