

FEB 13 1900

U. S. DEPARTMENT OF AGRICULTURE.

ANNUAL SUMMARY 1899.

OREGON SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

PUBLISHED BY AUTHORITY OF THE SECRETARY OF AGRICULTURE.

UNDER DIRECTION OF

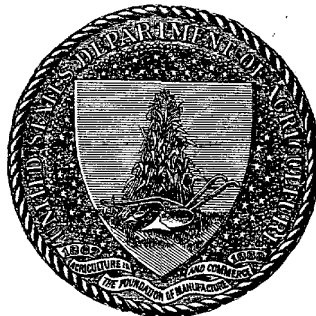
WILLIS L. MOORE

CHIEF OF WEATHER BUREAU

BY

G. N. SALISBURY,

SECTION DIRECTOR.

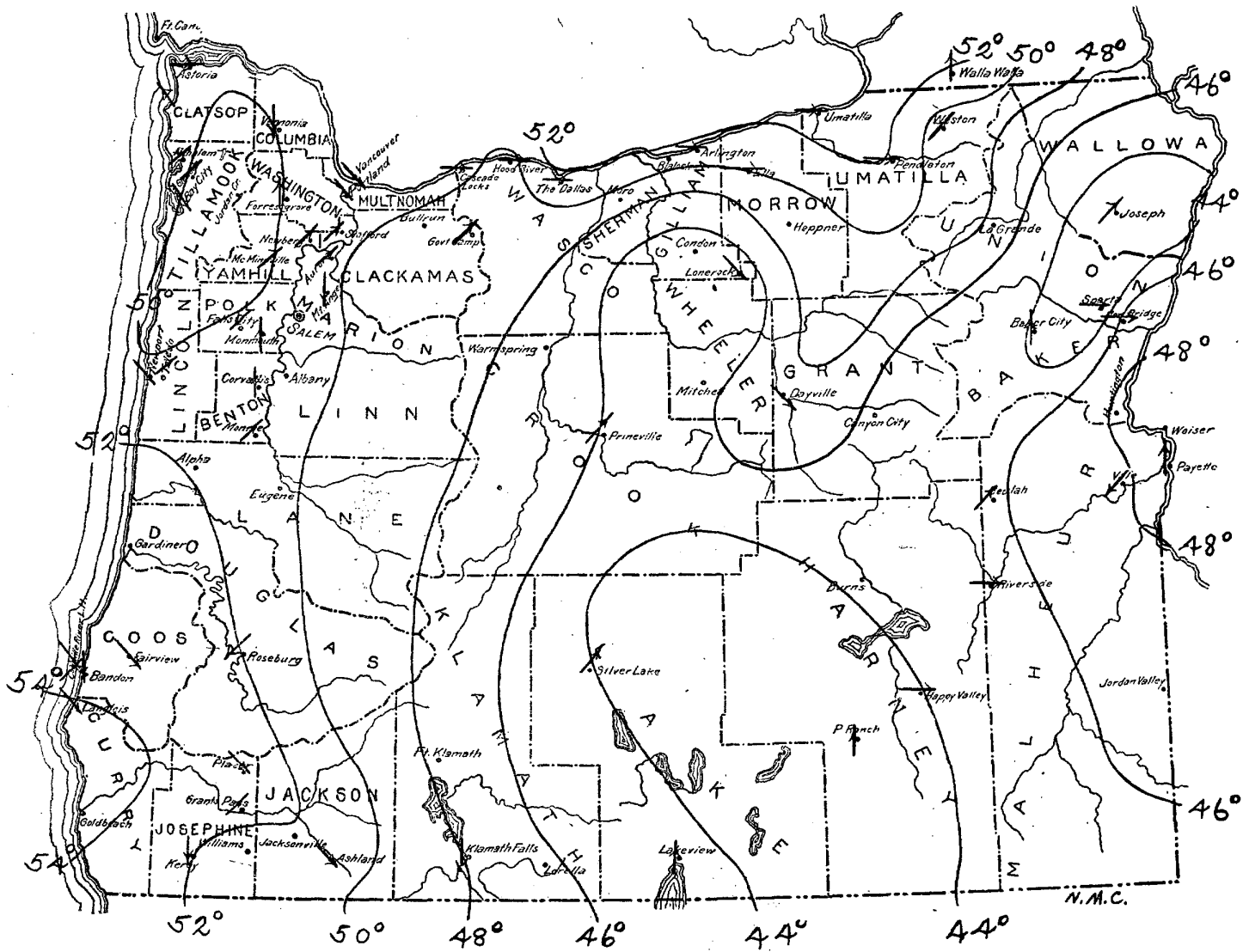


PORTLAND, OREG.:
WEATHER BUREAU OFFICE.

1900.

Chart I. WIND DIRECTION AND ANNUAL MEAN ISOTHERMS.

YEAR, 1899.



Lines pass through points of equal temperature. Arrows fly with the wind.

U. S. DEPARTMENT OF AGRICULTURE,

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

OREGON SECTION,

G. N. SALISBURY, Section Director,

PORTLAND, ORE.

OREGON CLIMATIC SUMMARY FOR 1899.

TEMPERATURE.

The average temperature for the year over the whole State was 49.5°, which is about 1.0° below the mean annual temperature of Oregon. The highest mean was 54.3°, at Langlois, Curry county, in the extreme southwestern part of the State. The lowest mean was 41.8°, at Joseph, Wallowa county, in the extreme northeastern part of the State. The mean of 40.4°, at Government Camp, Clackamas county, is not considered the lowest in this connection, on account of its being an isolated mountain station. The maximum temperature of the year was 107°, occurring on two different dates—at Pendleton, Umatilla county, on July 13th, and at Vernonia, Columbia county, on July 25th. The minimum temperature for the year was 27° below zero, and occurred at Silver Lake, Lake county, on February 4th. The absolute range for the year was, therefore, 134°, which is not unusual. The mean temperature in the Coast region was 51.3°; Willamette valley, 49.9°; Southern Oregon, 51.8°; Columbia River valley, 50.9°; Plateau district, 45.8°.

PRECIPITATION.

The average for the year throughout the State was 49.73 inches. This is about 15.5 inches above the mean annual rainfall of the State, showing the year 1899 to have been a very rainy year. In the Coast district—that is, between the Coast Range of mountains and the ocean—the average rainfall was 102.04 inches for the year; in the Willamette valley, 58.45; in the southern counties, 43.37; in the Columbia River valley, 28.39; in the Plateau region, 15.90 inches. The greatest amount of precipitation at any station during the year was 162.48 inches, or about 13.5 feet, at Glenora, Tillamook county. The least amount during the year at any station was 8.08 inches, at Prineville, Crook county. The greatest amount in any one month was 35.81 inches, at Glenora, in November; the least amount was none, at several stations in the Plateau district, during the month of July.

The total snowfall during the year was, west of the Cascades, from about 4 inches on the coast to 477 inches at Government Camp, on the slope of Mount Hood, and, east of the Cascades, from 1 inch to 173 inches. It averaged about 8 inches in the Coast district, 15 inches in the Willamette valley, 7 inches in Southern Oregon, 33 inches in the Columbia River valley, and 50 inches in the Plateau district. The snowfall at Government Camp was greater than any time in recent years, except in 1896, when 483 inches fell. In 1897 there were 290 inches, and in 1898, 381 inches.

Precipitation occurred on an average of 82 days in the Plateau district, 101 in the Columbia River valley, 129 in Southern Oregon, 175 in the Willamette valley, and 192 in the Coast district.

The prevailing direction of the wind was from the southwest, the same as in 1898. South and northwest winds were next in frequency.

THE WEATHER BY MONTHS.

JANUARY. The month was mild and wet, being 3.6° above the normal in temperature and 0.36 of an inch above in precipitation. There were a few cold days during the fore part of the month, during which snow occurred in nearly all parts of the State. The warmest days were from the 15th to the 28th; those of the 20th to 25th were especially warm. Much colder weather set in on the 31st. The mean temperature of the month was 38.6°; highest, 78°; lowest, 10° below zero; average precipitation, 6.49 inches.

FEBRUARY. This was a cold month, particularly in the fore part, when a severe cold spell occurred, during which the thermometer read lower than ever before recorded at several stations in the Plateau district. The mean temperature of the month was 34.8°, which is 1.8° below the normal; the highest temperature was 74°, the lowest 27° below zero; the average precipitation was 5.91 inches, which is 1.24 inches in excess of the normal.

MARCH. The month was deficient in temperature, and slightly deficient in precipitation, although throughout the Coast district and the Willamette valley rain fell on nearly every day. The mean temperature was 42.9°; the highest was 75°; the lowest, 6°; average precipitation, 4.03 inches.

APRIL. This was a cool and wet month, the temperature being slightly below the normal, and the precipitation being slightly above. The mean temperature was 47.0°; the highest, 86°; the lowest, 12°; average precipitation, 3.92 inches.

MAY. There was slightly above the normal amount of precipitation, and the month was phenomenally cool, the mean temperature, which was the lowest on record for May, being 4.5° below normal. The mean temperature was 49.8°; the highest of the month, 90°; the lowest, 18°; average precipitation, 2.96 inches.

JUNE. The month had the lowest mean temperature of any June since 1894, and its precipitation was below normal. The mean temperature was 58.1°, which is 1.3° below the normal; highest temperature, 98°; lowest, 17°; average precipitation, 0.99 of an inch.

JULY. The month was of about the average July temperature, and was a comparatively dry month. The mean temperature was 66.1°; the highest was 107°; the lowest, 26°; average precipitation, 0.15 of an inch.

AUGUST. The mean temperature was the lowest on record for August, being 5° below the normal, and the excessive rainfall was phenomenal, the average for the State being four times the usual August amount. The mean temperature was 60.6°; the highest was 97°; the lowest, 16°; the average precipitation was 2.42 inches.

SEPTEMBER. The month was quite warm and dry, the temperature being above and the precipitation below the normal. The mean temperature, 61.6°, is the highest on record, and 1° higher than the temperature of the preceding August. The highest temperature was 100°; the lowest was 15°; average precipitation, 1.37 inches.

OCTOBER. The mean temperature was abnormally low, and the precipitation excessive. The mean temperature, 48.7°, was the lowest on record for October. The highest was 93°; the lowest was 2° below zero, being the first time on record that zero temperature occurred in October in this State. The average precipitation was 4.42 inches.

NOVEMBER. The month was noteworthy for the abnormally high mean temperature, it being nearly 5° above the normal.

It was by far the warmest November on record in Oregon. The precipitation was very heavy, particularly west of the Cascades. At many stations more than double the usual November rainfall occurred. The mean temperature was 48.2°; the highest was 77°; the lowest was 5°; the average precipitation was 9.08 inches.

DECEMBER. The temperature of the State was 0.5 of a degree above the normal. It was above the normal in all districts except the Plateau, where it was nearly 3° below. The precipitation was 0.48 of an inch below normal, being above only in the Plateau district and the high-lying southwest counties. The mean temperature was 38.7°; highest, 68°; lowest 9° below zero; average precipitation, 6.30 inches.

REVIEW OF WEATHER AND CROP CONDITIONS IN OREGON, 1899.

The crop season of 1899 was throughout a very abnormal one. Severe cold spells occurred in the winter, notably the one which set in February 1st. After the cold days in the early part of January, the weather turned unusually warm, unduly developing fruit buds and melting the protective snow from many wheat fields. Then came the very severe cold spell, beginning February 1st, which killed out a large amount of winter wheat where the snow was melted off or blown off, and injured fruit buds materially. Owing to dry weather during the preceding fall, much of the wheat was of a weak stand and "spotty," more readily succumbing to the severe freeze; otherwise the damage from freezing out would not have been so great.

March and April were cold and rainy, the wet weather hindering the re-seeding that was necessary, and preventing the usual amount of spring wheat being sown. It was also very late when the latter was put in. Germination was greatly retarded by the lack of warm weather, and the succeeding growth very slow and discouraging for the same reason. Fruit trees came into bloom in April, but the wet and cold were very unfavorable, preventing pollination in the first place, and, probably owing to the failure of sap to rise, causing the fruit to drop off soon after setting.

May continued unfavorable for growth and for farm work. Except in the more favored sections, plowing and planting were suspended until the latter part of the month. Hops were less injuriously affected than other crops, and were in satisfactory condition.

With June came more favorable weather. Grain stood out well and grew rapidly, and by the end of the month fall-sown wheat had headed out. Strawberries were a bountiful crop. Cherries began ripening in June. The rains of the first part of July, followed by cool weather, were of great benefit to growing vegetation. The remainder of the month was dry and favorable for all farm work. Hops made a very fine growth. One of the largest hay crops ever secured in the State was harvested without injury from rain. Fall wheat harvest was begun on the 17th, and continued under favorable conditions throughout the month. The yield was excellent. The spring grain suffered some injury from shriveling by the hot winds which prevailed about the 25th to 28th, and the grain did not fill well. The straw was short and the heads small.

The month of August began slightly cooler and with less sunshine. Nevertheless, harvesting progressed well until the 9th, when heavy rain set in, delaying harvesting, but at first doing no damage. But rain continued during the third week of the month and harvesting came to a standstill. Wheat sprouted in the shock in some districts, the greatest damage being in the Willamette valley and in Umatilla county. The rain put the pastures and ranges in excellent condition, and the hop crop also. Corn, potatoes, and root crops, as well as sugar beets, were greatly benefited.

A change to fair weather in September came very opportunely for the finishing of harvesting and for threshing. Warm, dry weather dried out the grain, and even spring-sown wheat turned out better than was expected, although, from the combination of causes before mentioned, the yield was greatly reduced. Hop-picking progressed actively, and a fair yield was secured. Plowing and seeding were actively pushed, the ground being in good condition for working. A small crop of fall fruit was secured; that is, small as compared with the usual crop.

October was a wet and cold month, so unfavorable for plowing and seeding that less than one-half the usual amount was done. The month of November was warm and wet, with no frosts in the western portion of the State. December was also warm, and, at the close of the month, fall-sown wheat, although less was sown than usual, was the finest in appearance it has ever been at that time of the year.

In conclusion, the crops of the season were not up to the average in quantity or quality, excepting the hay crop, which was equal, if not superior, to any ever before secured in the State.

CHANGES IN STATIONS DURING THE YEAR.

Alpha, Lane county, was established in July; C. A. Potterf, Voluntary Observer.

Bull Run, Clackamas county, was established in March; gatekeeper at headworks Portland water system is the Voluntary Observer.

Mitchell, Wheeler county, was established in December. A. D. Looney is the Voluntary Observer.

The voluntary stations at Fife, Stokes and Canyon City were discontinued at the beginning of the year.

At the Central Office there have been important changes. On December 16th, Mr. B. S. Pague, Forecast Official and Section Director, was succeeded by Mr. G. N. Salisbury, Section Director, previously in charge of the Washington Section, at Seattle, Wash. The change is regarded as temporary, to last a period of about six months. Mr. Pague has gone to Chicago, Ill., where he will be engaged in forecasting for that district. With the exception of one assistant, the entire station force was changed during the year.

It has been found convenient in considering the climate of Oregon, a State so large and of so widely varying topography, to divide the State into five districts, which have been referred to in the foregoing summary, viz.: The Coast, the Willamette River valley, Southern Oregon, the Columbia River valley, and the Plateau district. These climatological divisions were outlined and their topography and general characteristics briefly described in the ANNUAL SUMMARY for 1898, but it is thought well to repeat a portion of the description. The Coast consists of that part of the State lying between the Coast Range of mountains and the Pacific ocean. The climate is a wet one. The Willamette valley lies between the Coast Range and the Cascade mountains, and extends from the Columbia river southward to the Calipooia mountains. The altitude is low and the climate is moist. Southern Oregon, or the southwest counties, embraces Douglas, Josephine and Jackson counties, lying at a moderately high elevation between the Calipooia and the Siskiyou mountains. The climate is of medium dryness. The Columbia River valley, as the expression is here used, refers to those counties of the State bordering on the Columbia river, from the Cascade mountains eastward. The altitude is moderately high and the climate is dry. The Plateau district occupies the remaining part of the State, east of the Cascade range and south of the Columbia River valley. It has a high elevation, as the name suggests, and the climate is semi-arid to arid.

Climatological Data for the Year 1899.

Stations.	Counties.	Elevation, feet.	Temperature (degrees Fahrenheit).						Precipitation (inches).						Sky.					Prevailing direction of wind.
			Length of record, years.	Annual mean.	Highest.	Date.	Lowest.	Date.	Length of record, years.	Total for the year.	Greatest monthly.	Month.	Least monthly.	Month.	Total snowfall.	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.	
COAST DISTRICT.																				
Alpha.	Lane.	new							new											
Astoria.	Clatsop.	50	39	51.2	86	July 25	15	Feb. 3	39	101.40	18.84	Jan.	0.52	July	8.7	218	82	48	234	w.
Bandon.	Coos.	55	27	51.5	74	Oct. 3	18	Feb. 4	37	70.74	15.81	Nov.	0.10	July	3.5	181	109	58	198	n.
Bay City.	Tillamook.	225	3	50.3	82	Oct. 4	12	Feb. 3	3	127.99	23.53	Jan.	0.44	July	8.5	262	41	68	256	n.w.
Coquille River L. H.	Coos.	13							2	67.80	14.86	Nov.	0.02	July	3.5	186	58	174	133	s.w.n.w.
Fairview.	Coos.	2			88	Sept. 10	20	Feb. 3	2		14.24	Dec.	T.	July	10.5					n.w.
Fort Canby, Wash.	Pacific	72	11		85	Sept. 24	16	Feb. 3	11		16.63	Nov.	0.52	July	1.7					n.w.
Gardiner.	Douglas	72	11	52.6	80	Sept. 10	16	Feb. 4	11	96.18	20.25	Nov.	0.20	July		172				n.w.
Glenora.	Tillamook	8		49.6	99	July 26	6	Feb. 3	8	162.48	35.81	Nov.	0.30	July	20.7	192	98	42	225	s.w.
Langlois.	Curry	250	9	54.3	90	Oct. 3	16	Feb. 4	9	108.17	23.42	Nov.	0.00	July	6.0	139				n.w.
Nehalem.	Tillamook								6	134.36	24.04	Jan.	0.24	July	6.5	212	74	142	149	s.w.
Newport.	Lincoln	69	11	49.8	82	Sept. 24	12	Feb. 2	11	90.19	17.49	Nov.	0.59	July		218				n.w.
Tillamook Rock.	Clatsop	146							10		12.84	Nov.	0.52	July						s.e.
Toledo.	Lincoln	30	11	51.4	91	Sept. 25	8	Feb. 4	11	76.60	14.80	Feb.	T.	July	6.0	140	111	130	124	s.w.
Crescent City, Cal.	Del Norte	50	6	51.1	83	Sept. 15	23	Feb. 4	9	86.55	20.15	Nov.	0.09	July	0	135	128	94	143	s-n.w.
WILLAMETTE VALLEY.																				
Albany.	Linn	214	23						23	46.99	8.89	Nov.	0.03	July						
Bull Run.	Clackamas	719	new		92	July 26			new		12.35	Nov.	0.28	July						
Corvallis.	Benton	319	11	51.3	94	July 25	5	Feb. 4	11	49.69	10.93	Nov.	0.07	July	4.3	194	115	92	158	s.
Eugene.	Lane	435	10						10		6.14	Nov.	T.	July						
Falls City.	Polk	355	3	49.8	94	July 26	1	Feb. 4	3	91.33	20.96	Nov.	0.07	July	14.9	193	102	38	225	n.e.
Forest Grove.	Washington	229	11						11		14.22	Nov.		July	16.5					s.
Government Camp.	Clackamas	3,580.	3	40.4	90	Sept. 25	16	Feb. 4	3	124.35	22.22	Feb.	0.52	July	477.3	179	111	74	180	s.w.
Irvington (nr Portland).	Multnomah	75	12		94	July 26	6	Feb. 3	12	40.40	8.19	Nov.	0.32	July						
McMinnville.	Yamhill	180	12		96	July 27	2	Feb. 4	12	56.68	12.00	Nov.	0.50	July	10.5	184	73	74	218	s.w.
Miramonte Farm.	Clackamas	195	11	50.4	94	July 26	2	Feb. 4	11	49.09	8.12	Nov.	0.43	July	12.8	207	98	115	152	s.w.
Monmouth.	Polk				96	July 26	6	Feb. 4			10.93	Nov.	0.31	July	8.0					s.
Monroe.	Benton			51.3	94	July 26	1	Feb. 4		55.62	11.04	Nov.	T.	July	15.6	163	106	70	189	s.w.
Mount Angel.	Marion	140	14		95	July 28	15	Feb. 4	14		10.35	Nov.	0.03	July	12.0					n.
Newberg.	Yamhill	193	9		99	July 27	2	Feb. 4	9	48.75	10.05	Nov.	0.22	July	10.1	168				s.w.
Portland.	Multnomah	153	32	51.8	93	July 26	9	Feb. 4	32	42.21	7.56	Nov.	0.47	July	17.8	165	74	114	176	n.w.
Salem.	Marion	120	11	51.9	96	July 26	4	Feb. 3	11	48.12	9.22	Nov.	0.00	July		137	143	114	108	s.w.
Stafford.	Clackamas		3	51.0	97	July 26	0	Feb. 4	3	58.72	9.60	Nov.	1.15	July	19.5	207				s.w.
Vancouver, Wash.	Clark	50	20	51.1	93	July 26	6	Feb. 3	20	47.20	9.07	Nov.	0.10	July	19.4	174	98	114	153	n.w.
Vernonia.	Columbia	1,238	11	50.3	107	July 25	2	Feb. 3	11	59.17	10.96	Nov.	0.02	July	37.5	123	108	53	204	n.
SOUTHERN OREGON.																				
Ashland.	Jackson	1,940	16	51.4	96	*	0	Feb. 4	16	19.54	2.63	Jan.	0.00	July	7.0	111	124	86	155	n.w.
Buckhorn Farm.	Josephine		1	51.6	97	July 25	8	Feb. 4	1	73.41	17.74	Nov.	0.00	July	8.8	130	198	45	122	n.
Grants Pass.	Josephine	964	11	52.7	99	July 25	10	Feb. 6	11	39.04	7.98	Nov.	0.00	July	3.8	128	152	49	164	s.w.
Jacksonville.	Jackson	1,640	11	51.6	99	Sept. 10	5	Feb. 4	11	33.63	6.73	Dec.	0.09	July	2.7	128	155	86	124	
Placer.	Josephine									57.99	12.25	Nov.	0.00	July		124	155	0	210	n.w.
Roseburg.	Douglas	523	23	52.4	93	Sept. 11	7	Feb. 4	23	42.97	7.31	Mch.	0.00	July	8.3	161	107	106	152	n.e.
Williams.	Josephine		8	51.1	93	July 25	4	Feb. 4	8	37.00	7.37	Nov.	0.00	July	11.5	123	141	96	128	
COLUMBIA RIVER VAL.																				
Arlington.	Gilliam	855	9	52.4	102	July 15	3	Feb. 4	9	10.11	2.31	Jan.	0.00	July	19.3	59				w.
Blalocks.	Gilliam		1		104	July 15	3	Feb. 4	1		2.58	Nov.	T.	July						w.
Cascade Locks.	Wasco	125	9	51.1	96	July 26	4	Feb. 4	9	97.95	16.66	Nov.	0.08	July		195	89	92	184	w.
Ella.	Morrow								10	9.74	1.89	Oct.	0.01	July	21.0	53	221	46	98	w.
Heppner.	Morrow	1,950	10	49.2	99	July 15	13	Feb. 3	10	17.95	2.17	May	T.	July	29.0	106				
Hood River (near).	Wasco	920	9	49.2	98	July 27	6	Feb. 3	9	44.18	7.72	Nov.	T.	July	79.0	142				w.
Pendleton.	Umatilla	1,074	11	52.3	107	July 13	8	Feb. 4	11	20.08	2.26	Dec.	0.03	July	32.1	86	134	100	131	w.
The Dalles.	Wasco	103	26	52.0	99	July 27	1	Feb. 3	26	16.74	3.57	Nov.	0.00	July	40.3	81	150	53	162	w.
Umatilla.	Umatilla	340							10	10.36	1.89	Aug.	0.02	July	21.5	66	207	61	97	w.
Walla Walla, Wash.	Walla Walla	1,018	38	52.4	102	July 15	6	Feb. 5	38	22.99	3.07	Oct.	T.	July	37.1	129	132	164	69	s.
Weston.	Umatilla	1,800	10	48.6	97	July 15	15	Feb. 4	10	33.75	5.61	Feb.	0.04	July	47.3	118	184	55	126	s.w.
PLATEAU DISTRICT.																				
Baker City.	Baker	3,470	11	44.4	96	July 17	20	Feb. 4	11	15.11	2.08	May	0.12	Sept.	60.4	125	95	107	163	s.
Benlah.	Malheur	4,400	10		104	July 17	23	Feb. 4	10											s.w.
Burns.	Harney		10				24	Feb. 3	10		4.55	Nov.			47.0					
Dayville.	Grant	5	49.4	96	July 16	10	Feb. 4	5	15.45	2.52	Jan.	0.11	June	22.8	86	145	162	58	n.w.	
Happy Valley.	Harney	4,200	10	43.8	97	July 16	22	Feb. 4	10	16.62	2.79	Mch.	0.04	July	39.0	86				w.
Joseph.	Wallowa	4,400	11	41.8	91	July 16	24	Feb. 4	11	17.33	2.22	Oct.	0.19	July	90.6	94	249	47	69	s.w.
Klamath Falls.	Klamath	4,250	10		98	July 16	0	Feb. 4	10				0.00	July						n.
La Grande.	Union	2,784	13	48.0	99	July 17	18	Feb. 3	13	23.57	4.33	Feb.	0.00	July	23.9	116				s.
Lakeview.	Lake	5,060	17		95	July 18	17	Feb. 3	17		2.60	Oct.	T.	July						n.w.
Lone Rock.	Gilliam	2,000	10	43.9	97	July 15	18	Feb. 3	10	16.87	2.43	Jan.	0.00	July	37.5	89				
Lorella.	Klamath		3		98	July 31			3				0.00	July						
New Bridge.	Union	1,900	4	46.6	102	July 17	11	Feb. 5	4	12.53	1.79	Feb.	T.	July	37.5	70	186	64	115	w.
Payette, Ida.	Canyon	1,900	11	50.2	104	July 18	15	Feb. 4	11	14.01	2.99	Oct.	0.11	July	39.5	65	165	91	109	s.
P. Ranch.	Harney		3		98	July 22	9	Feb. 4	3				0.00							s.
Prineville.	Crook	3,000	3	46.3	98	July 6	17	Feb. 4	3	8.18	1.77	Oct.	T.	Sept.	1.0	44	167	113	85	s.w.
Riverside.	Malheur		11		106	July 17	21	Dec. 17	3	12.34	2.06	Dec.	T.	Sept.	42.5	51				w.
Silver Lake.	Lake.	4,300	11	44.4	95	July 17	27	Feb. 4	11	10.36	2.57	Mch.	0.00	July	23.4	51	177	107	81	s.w.
Sparta.	Union	4,125	9	43.3	94	July 17	15	Feb. 3	9	33.77	5.30	Nov.	T.	Sept.	173.0	101	148	105	112	w.
Vale.	Malheur	4,400	9	47.0	101	July 17	12	Feb. 4	9	10.72	1.92	Jan.	0.02	July	32.0	76	124	159	82	n.e.
MISCELLANEOUS.																				
Boise, Ida.		2,736	15	50.4	102	July 18</														

Monthly and Annual Mean Temperature for the Year 1899, with Departures from the Normal.

Stations.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual.	
	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.
COAST DISTRICT.																										
Alpha.	43.0	+3.7	40.1	-1.8	43.8	-1.1	48.2	-0.3	50.0	-3.2	55.3	-2.2	61.8	+1.5	60.2	-0.6	63.4	.....	52.6	.....	51.8	.....	43.3	.....	.....	.....
Astoria.	47.4	+2.5	44.9	-0.5	45.7	-1.8	49.3	-0.5	52.3	-1.3	54.0	-2.9	56.0	-2.3	57.3	-1.1	56.0	-0.3	50.8	-2.5	55.2	-6.1	48.6	+1.3	51.5	-0.7
Bandon.	43.8	.....	40.8	.....	42.6	.....	47.4	.....	49.0	.....	54.9	.....	62.4	.....	58.6	.....	56.8	.....	52.1	.....	52.6	.....	44.6	.....	50.3	.....
Fairview.	45.6	.....	44.0	.....	43.1	.....	49.1	.....	48.9	.....	55.5	.....	62.6	.....	59.8	.....	62.8	.....	.....	.....	52.2	.....	49.9	.....	.....	.....
Fort Canby, Wash.	42.2	+1.2	39.7	-2.3	43.6	-1.5	47.6	-1.2	48.5	-4.6	52.9	-4.0	58.4	-1.0	58.1	-1.9	58.9	+1.4	52.2	-1.4	51.9	+3.9	47.0	+2.8	52.6	+0.6
Gardiner.	46.5	+2.7	43.6	-1.0	45.2	-0.3	50.0	+1.0	53.9	-0.0	56.8	-1.2	62.8	+0.4	60.0	-2.1	60.2	+2.2	52.5	-1.6	53.8	+4.2	47.0	+2.8	52.6	+0.6
Glenora.	40.8	+4.2	37.0	-2.0	42.0	-0.4	47.0	+1.9	49.6	-1.9	56.4	+1.6	64.1	+1.4	58.2	-5.6	62.4	+7.0	47.9	-2.9	48.4	-6.0	41.4	+5.7	49.6	+1.2
Langlois.	50.0	+3.1	46.8	-0.1	48.2	-0.5	50.2	+0.5	53.5	-1.5	59.5	-0.4	64.4	-0.5	62.0	-1.3	61.4	+0.5	54.0	-2.2	55.7	-4.7	48.7	+1.9	54.3	+0.4
Newport.	44.2	-0.2	41.4	-3.3	44.6	-1.0	47.7	+1.1	49.8	-3.4	52.0	-5.7	56.0	-3.2	56.8	-1.7	55.4	-0.6	52.0	-2.6	52.4	-3.2	45.5	-1.1	49.8	-1.7
Toledo.	45.2	-2.3	41.4	-2.1	45.2	-0.7	48.6	+0.8	50.7	-3.3	55.0	-2.3	60.3	-4.1	55.8	-7.1	59.4	+1.2	52.9	-1.7	55.6	-6.7	47.1	+2.1	51.4	-0.7
Crescent City, Cal.	48.0	+1.4	44.0	-4.2	47.5	+1.2	48.0	-1.1	49.4	-2.6	53.0	-2.0	55.6	-1.2	56.1	-1.7	56.1	+0.3	51.9	-1.6	54.8	+3.9	49.0	+1.8	51.1	0.0
WILLAMETTE VALLEY.																										
Albany.	44.2	+5.8	40.6	-1.0	44.0	-2.6	.....	.....	.....	.....	55.8	.....	64.6	.....	58.6	.....	59.9	.....	47.8	.....	48.0	.....	39.7	.....	.....	.....
Bull Run.	42.7	+4.7	38.0	-1.8	43.4	-0.8	48.0	-0.7	52.6	-2.2	58.5	-0.9	65.0	-0.3	61.4	-3.8	62.3	+3.2	51.2	-0.1	50.8	+5.9	41.6	+1.4	51.3	+0.4
Corvallis.	42.7	+4.7	38.0	-1.8	43.4	-0.8	48.0	-0.7	52.6	-2.2	58.5	-0.9	65.0	-0.3	61.4	-3.8	62.3	+3.2	51.2	-0.1	50.8	+5.9	41.6	+1.4	51.3	+0.4
Eugene.	41.0	.....	40.3	-1.9	43.4	-2.4	48.3	-0.7	50.7	-3.7	57.5	.....	63.4	.....	60.6	-5.2	61.6	+2.6	51.4	-2.8	52.0	+5.5	43.4	+1.9	.....	.....
Falls City.	41.0	.....	37.9	.....	42.6	.....	47.7	.....	50.6	.....	57.5	.....	63.4	.....	59.2	.....	60.2	.....	49.0	.....	49.0	.....	40.0	.....	49.8	.....
Forest Grove.	39.0	+3.0	35.8	-3.2	41.4	-2.3	47.2	-0.7	50.1	-6.0	.....	.....	.....	.....	.....	.....	.....	.....	49.0	-2.2	49.8	+5.6	40.0	+1.8	.....	.....
Government Camp.	31.6	.....	26.0	.....	30.2	.....	36.2	.....	38.6	.....	45.9	.....	53.9	.....	48.6	.....	56.0	.....	40.2	.....	42.1	.....	33.6	.....	40.4	.....
Irrington (near Portland).	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	60.5	.....	63.0	.....	52.4	.....	53.9	.....	44.9	.....	.....	.....
McMinnville.	41.8	+4.5	38.4	-1.8	43.6	-1.5	47.8	-1.2	50.6	-5.1	58.2	-1.0	64.3	-0.9	.....	.....	.....	.....	50.6	-1.6	50.4	-7.4	42.0	+2.1	.....	.....
Miramonte Farm.	41.5	+3.8	38.0	-2.7	43.2	-3.0	47.7	-2.7	51.5	-3.9	57.4	-3.7	64.2	-2.1	59.4	-6.6	60.1	+1.1	50.2	-2.5	50.8	+4.4	41.7	+1.8	50.4	-1.6
Monmouth.	42.9	.....	39.5	.....	44.0	.....	48.0	.....	51.0	.....	57.2	.....	64.5	.....	62.0	.....	.....	.....	51.5	.....	50.4	.....	41.8	.....	.....	.....
Monroe.	41.6	.....	38.8	.....	43.3	.....	48.5	.....	51.4	.....	57.8	.....	65.0	.....	61.9	.....	62.8	.....	51.8	.....	50.4	.....	41.8	.....	51.3	.....
Mount Angel.	42.6	+4.7	33.2	-7.4	43.5	-2.9	48.4	-1.7	52.2	-5.3	61.8	-0.3	67.2	-0.3	.....	.....	65.0	+4.3	51.2	-1.2	50.7	+4.1	41.7	-9.9	.....	.....
Newberg.	43.2	+4.5	38.4	-3.2	43.5	-2.0	47.2	-0.5	51.5	-3.5	59.2	-0.9	67.2	-0.3	.....	.....	61.7	-6.5	52.1	-2.1	50.6	+3.3	40.4	+6.3	.....	.....
Portland.	40.6	+2.2	39.3	-1.9	43.8	-3.4	48.8	-2.8	51.1	-6.2	58.8	-2.8	66.0	+0.5	61.5	-4.4	64.1	+3.4	51.8	-1.6	52.5	-6.9	43.1	+1.8	51.8	-0.7
Salem.	44.4	+4.6	39.7	-3.3	44.2	-1.6	48.2	-0.8	53.0	-2.3	59.0	-1.8	66.0	+0.7	62.0	-3.6	61.9	+2.2	50.1	-2.5	52.6	-3.3	43.3	+0.5	51.9	-0.3
Stafford.	40.4	.....	37.8	.....	43.0	.....	47.4	.....	50.3	.....	57.7	.....	67.2	.....	61.0	.....	63.8	.....	50.8	.....	51.0	.....	41.8	.....	51.0	.....
Vancouver, Wash.	40.0	+2.9	38.8	-1.5	44.0	-1.1	49.0	-2.7	51.5	-6.7	58.1	-4.6	65.3	-1.9	61.0	-5.3	61.0	-0.3	50.8	+4.0	51.4	+6.8	42.0	-3.3	51.1	-1.0
Vernonia.	39.1	+3.0	37.0	+0.8	41.8	+0.2	46.8	0.0	49.0	-5.7	55.4	-2.0	63.4	+1.8	62.2	-1.0	65.0	+7.8	51.5	+0.5	51.2	+6.2	40.7	+1.1	50.3	+1.1
SOUTHERN OREGON.																										
Ashland.	39.4	+1.2	38.4	-2.6	43.3	-4.5	48.8	-0.8	51.0	-7.1	61.4	-1.6	68.8	-1.4	62.8	-5.8	64.6	+3.1	50.0	-3.8	49.8	+5.5	38.4	-0.7	51.4	-1.5
Buckhorn Farm.	41.2	.....	40.4	.....	44.8	.....	50.2	.....	52.8	.....	61.6	.....	67.0	.....	62.4	.....	62.2	.....	49.5	.....	48.6	.....	38.7	.....	51.6	.....
Grants Pass.	41.2	+4.2	41.2	+0.9	45.6	+0.3	50.8	+0.2	53.2	-3.7	62.0	-0.3	69.6	-0.3	64.1	-4.9	64.4	+5.3	51.0	-2.4	49.6	-6.4	40.2	+2.6	52.7	+0.7
Jacksonville.	39.2	+2.9	38.6	-0.4	43.4	-2.0	49.0	+0.4	51.6	-5.2	61.2	-0.5	69.6	+0.5	64.8	-3.5	67.0	+6.6	50.6	-1.8	47.6	-3.8	36.4	-0.6	51.6	0.0
Roseburg.	44.1	-3.6	42.0	-0.3	44.5	-3.3	49.9	-1.0	51.6	-4.8	59.5	-1.5	66.0	-0.5	61.6	-4.6	64.2	+3.1	52.1	-0.6	51.4	-6.0	42.4	-0.2	52.4	-0.4
Williams.	40.4	+2.0	39.5	-0.6	44.4	-0.4	48.8	+1.0	51.8	-4.3	59.8	-1.3	66.2	0.0	61.0	-5.2	62.0	+4.0	48.4	-3.1	48.0	-5.0	43.2	+5.0	51.1	+0.1
COLUMBIA RIVER VAL.																										
Arlington.	33.0	+1.8	33.7	-4.0	44.7	-0.5	51.6	-0.4	57.4	-2.8	64.8	-1.9	75.1	+0.7	66.4	-6.0	66.8	+6.4	51.9	-0.7	47.8	+3.8	35.2	-1.2	52.4	-0.4
Blalocks.	.....	.....	33.6	.....	46.9	.....	54.8	.....	.....	.....	63.8	.....	78.0	.....	69.0	.....	70.5	.....	53.8	.....	48.8	.....	39.2	.....	.....	.....
Cascade Locks.	35.8	+0.1	35.4	-3.7	44.0	-1.3	50.0	-0.6	53.0	-4.4	60.0	-1.6	68.4	+0.2	62.2	-6.1	63.4	+4.0	51.6	-2.3	49.3	-2.7	40.6	+7.7	51.1	-0.5
Heppner.	36.2	+3.6	32.1	-1.6	40.0	-1.6	46.6	-1.5	50.6	-5.0	58.8	-2.4	68.2	0.0	61.4	-6.9	63.2	+4.5	47.6	-2.8	48.2	-3.4	37.0	-0.8	49.2	-0.8
Hood River (near).	34.4	+1.3	33.3	-1.3	41.8	+1.0	47.4	+0.4	50.0	-5.0	58.4	0.0	68.2	0.0	60.8	-5.0	62.8	-0.8	49.2	-0.4	47.0	-4.2	37.6	-2.7	49.2	+0.5
Pendleton.	35.9	+3.0	32.2	-4.1	43.5	-0.3	51.0	+0.5	55.6	-2.0	64.2	+1.4	73.4	+3.2	66.9	-2.9	66.2	-6.8	51.6	+0.4	49.2	-5.8	38.0	-1.7	52.3	+1.5
The Dalles.	34.6	+3.8	35.7	-0.6	44.1	-2.0	51.4	-2.0	55.6	-3.3	63.7	-3.2	72.1	-1.2	64.7	-6.1	65.6	-3.2	51.4	-0.3	47.2	-5.5	37.8	-2.5	52.0	-0.5
Walla Walla, Wash.	36.3	+3.0	31.4	-6.2	43.4	-3.1	50.7	-2.7	55.2	-5.3	63.9	-2.3	75.2	+0.7	66.2	-7.7	67.7	+4.4	51.6	-2.6	49.8	-7.0	37.4	-0.4	52.4	-1.2
Weston.	33.2	+0.6	28.7	-5.8	40.0	-0.7	46.0	-2.4	51.1	-4.2	58.8	+2.2	68.8	+0.6	61.6	-8.6	62.6	+5.4	47.1	-3.5	48.4	+7.7	36.5	+0.9	48.6	-0.6
PLATEAU DISTRICT.																										
Baker City.	30.7	+6.8	23.8	-2.9	34.8	-0.8	42.6	-1.5	46.6	-5.3	57.2	+0.1	67.2	+0.6	59.4	-7.0	61.0	+5.1	43.2	+0.9	42.2	+5.5	24.4	-4.0	44.4	-0.2
Beulah.	28.6	-6.6	26.5	-0.4	35.4	-1.7	44.3	+0.4	47.9	-5.1	60.4	+1.7	70.3	+2.9	61.6	-5.4	.....	.....	43.0	+3.4	40.8	-5.4	24.0	-9.2	46.6	-4.6
Burns.	25.4	+4.4	24.6	+3.1	33.1	+1.5	40.8	+1.4	43.0	-3.7	.....	.....	.....	.....	.....	.....	.....	.....	43.4	+1.1	38.5	-5.4	23.9	-3.0	.....	.....
Duville.	26.6	-6.9	25.9	-0.9	34.6	-1.6	43.6	-0.9	47.2	-5.2	58.2	+0.7	68.2	+1.1	61.5	-4.8	61.8	.....	48.2	-1.1	43.4	-5.4	24.1	-9.4	49.4	-0.4
Happy Valley.	33.6	+4.6	28.0	-2.0	34.8	-1.6	41.9	-1.9	44.4	-6.4	54.6	-2.2	63.6	-1.0	56.6	-7.1	56.1									

Monthly Maximum Temperatures for the Year 1899, with Dates.

Stations.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.	
	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.	Maximum.	Date.
COAST DISTRICT.																								
Alpha																								
Astoria	56	17	52	15	58	16	66	7	60	31	75	19	86	25	87	3	92	10	82	4	68	14	59	22
Bandon	57	22	56	13	60	19	64	8	64	21	65	19	72	29	72	3	81	24	80	4	63	9	58	21
Bay City	55	17	54	11	57	16	65	24	62	4	75	18	77	11	75	3	79	24	74	3	64	1	58	20
Fairview	61	27	59	11	56	12	73	7	70	9	80	15	86	24	83	4	88	10	82	4	68	28	60	23
Fort Canby, Wash.	50	17	49	11	56	16	63	24	58	31	62	22	77	25	72	30	85	24	77	4	62	1		
Gardiner	58	17	56	16	62	26	67	14	73	21	73	14	78	28	72	2	80	10	74	3	64	9	66	10
Glennora	59	25	57	17	65	27	76	7	73	7	85	16	99	26	90	2	95	19	81	4	63	1	57	25
Langlois	78	25	62	14	70	7	70	20	68	3	78	10	81	24	80	2	84	9	90	3	72	1	65	22
Newport	55	25	54	10	59	5	65	23	61	13	63	18	68	11	67	1	82	24	80	4	69	1	58	24
Toledo	61	27	56	13	66	5	79	7	66	13	78	19	81	25	78	5	91	25	87	3	76	27	63	25
Crescent City, Cal.	67	26	58	18	64	27	64	7	66	13	69	8	68	22	71	3	83	15	80	3	75	25	66	23
WILLAMETTE VALLEY.																								
Albany	61	20	63	18	62	31																		
Bull Run							68	7	66	22	78	16	92	26	77	4	82	10	66	5	57	7	50	25
Corvallis	58	20	59	18	64	27	75	8	72	7	85	16	94	25	89	3	89	10	82	4	69	14	61	23
Eugene			60	19	60	27	76	8	72	10					85	3	88	11	79	4	65	18	60	22
Falls City	55	17	60	18	61	27	71	8	74	10	83	16	94	26	88	3	85	10	71	5	63	14	55	23
Forest Grove	58	15	59	18	62	18	74	7	72	7								81	4	67	14	59	21	
Government Camp	50	25	46	14	51	6	60	8	59	22	70	9	89	14	77	3	90	25	69	5	54	1	54	23
Irrington (near Portland)	59	15	60	18	60	17	74	7	65	4	82	16	94	26	85	31	89	24	78	4	68	14	59	21
McMinnville	56	17	59	18	62	27	73	7	70	7	86	16	95	27				81	4	67	14	59	23	
Miramonte Farm	58	20	59	18	61	18	74	7	71	7	84	16	94	26	85	3	85	10	78	4	67	14	59	21
Monmouth	58	20	59	18	62	27	74	8	68	22	84	16	96	26	89	3		82	4	68	13	58	21	
Monroe	58	20	60	18	60	27	76	8	70	10	83	16	94	26	87	3	89	11	79	5	70	14	63	22
Mount Angel	58	17	58	18	61	5	78	7	77	7	90	15	95	28			92	11	81	4	64	14	57	21
Newberg	58	15	59	18	62	5	73	7	73	7	88	16	99	27	91	3	92	10	82	4	68	14	58	21
Portland	58	15	59	18	61	27	73	7	68	7	81	22	93	26	84	30	87	24	77	3	66	14	53	23
Salem	68	18	64	19	68	6	75	8	74	8	84	16	96	26	88	3	86	11	73	3	66	14	60	20
Stafford	56	25	57	19	62	6	74	8	69	8	86	15	97	26	87	3	94	10	83	5	67	14	58	23
Vancouver, Wash.	60	15	60	18	63	27	74	8	68	7	81	16	93	26	85	3	83	10	78	4	68	14	60	22
Veronia	59	26	59	19	75	5	86	7	73	22	84	18	107	25	97	30	106	10	93	4	69	1	58	22
SOUTHERN OREGON.																								
Ashland	56	28	59	14	63	5	78	8	82	10	93	16	96	27	91	3	96	10	88	3	69	3	59	29
Buckhorn Farm	62	20	64	18	71	6	83	8	81	10	93	16	97	25	89	3	93	11	81	4	64	13	55	11
Grants Pass	58	18	65	18	68	6	81	8	85	10	93	16	99	25	94	30	96	10	88	4	65	12	56	7
Jacksonville	53	24	58	19	61	6	77	8	80	10	89	16	95	27	94	30	99	10	90	4	68	13	51	6
Roseburg	62	20	61	18	65	5	78	8	78	10	88	16	92	27	85	4	93	11	86	4	66	14	59	21
Williams	57	24	68	22	69	6	77	7	83	10	91	16	93	25	89	29	92	11	84	4	67	13	59	12
COLUMBIA RIVER VAL.																								
Arlington	60	26	64	18	64	6	75	19	82	22	91	16	102	15	93	4	94	26	81	5	63	17	59	25
Blalocks			64	19	64	10	77	16	79	8	94	16	104	15	95	4	97	26	83	5	61	19	59	23
Cascade Locks	54	23	54	18	64	27	72	8	72	21	85	16	96	26	84	3	86	19	74	5	60	14	56	23
Heppner	58	26	60	18	63	6	72	8	76	22	88	16	99	15	90	3	94	11	81	5	65	7	62	23
Hood River (near)	55	27	56	18	61	27	71	8	74	24	85	18	98	27	89	3	94	11	76	4	64	6	60	23
Pendleton	62	28	62	18	64	30	79	8	83	22	95	23	107	13	97	4	100	11	86	5	72	14	62	1
The Dalles	62	26	62	18	66	27	74	8	82	22	90	16	99	27	92	3	93	11	78	5	58	4	59	24
Walla Walla, Wash.	60	20	59	18	60	5	76	15	80	22	90	17	102	15	93	4	94	11	83	5	72	14	63	23
Weston	55	20	57	17	64	6	75	15	78	22	87	18	97	15	93	5	90	11	85	5	74	14	63	23
PLATEAU DISTRICT.																								
Baker City	51	26	49	19	52	7	68	15	72	23	90	16	96	17	86	5	91	11	76	5	59	2	50	1
Beulah	52	26	51	17	55	30	73	8	81	19	98	15	104	17	95	5		80	5	75	12	2	42	30
Burns	48	18	50	15	50	17	71	8	76	18								79	6	64	14	58	1	
Dayville	61	26	60	14	65	8	75	15	79	23	84	16	96	16	89	4	93	25	87	5	77	2	53	1
Happy Valley	55	26	55	19	65	0	76	8	77	10	93	16	97	16	85	3	89	11	78	5	63	2	55	1
Joseph	51	27	46	17	49	7	66	15	71	23	84	24	91	16	85	5	90	11	74	5	64	14	50	1
Klamath Falls	52	30	56	13	63	6	79	8	87	10	94	15	98	16	94	30	94	12						
La Grande	58	25	54	19	54	18	78	15	89	7	91	16	99	17	89	3	93	26	80	5	65	14	49	1
Lakeview			51	12	56	5	74	20	77	10	90	16	95	18	87	3	88	10	72	5	58	2	50	1
Lone Rock	56	26	60	15	57	27	76	8	73	29	87	16	97	15	90	2	94	26	82	5	65	13	61	25
Lorella									72	30	94	15	98	31										
New Bridge	50	17	50	17	60	9	78	14	90	26	95	7	102	17	92	4	93	12	78	4	66	4	47	1
Payette, Ida.	52	30	56	21	60	8	80	15	82	23	99	17	104	18	98	5	100	12	82	4	62	22	58	1
P. Runch	60	27	54	11	66	5	78	7	78	11	90	15	98	22	90	1	91	10					54	7
Prineville	57	27	60	22	59	1	83	24	78	12	96	22	98	6	83	31	93	8	81	7	67	19	56	1
Riverside	53	26	63	18	61	6	81	14	81	16			106	17	97	4	94	11	79	6	61	2	54	1
Silver Lake	60	28	62	19	63	6	76	9	78	11	94	18	95	17	88	3	93	12	80	6	66	3	50	1
Sparta	48	21	46	19	47	17	63	15	71	23	84	17	94	17	87	5	89	26	76	8	60	4	45	2
Vale	49	28	53	17	60	24	79	15	83	10	96	18	101	17	94	5	91	12	75	7	60	4	50	1
MISCELLANEOUS.																								
Boise, Ida.	53	27	53	10	58	24	76	15	77	23	98	16	102	18	92	5	95	12	80	5	64	2	53	1
Helena, Mont.	49	21	51	18	55	7	70	9	76	24	87	24	98	18	86	31	86	11	75	5	65	14	54	24
Idaho Falls, Ida.	40	31	41	19	54	24	72	9	75	23														
Kalispell, Mont.							78	24	78	24	83	24	89	18	81	6	77	26	64	6	58	14	50	24
Neah, Wash.	53	20	50	14	52	16	66	24	59	22	60	8	78	26	67	3	69	27	65	4	59	13	59	6
Pocatello, Ida.													96	19	90	31	90	12</						

Monthly Minimum Temperatures for the Year 1899, with Dates.

Stations.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		
	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	Minimum.	Date.	
COAST DISTRICT.																									
Alpha																									
Astoria	29	3	15	3	33	22	33	26	38	13	42	7	48	1	47	28	46	23	36	14	42	17	33	19	
Bandon	36	8	18	4	32	5	36	5	38	2	45	15	43	5	43	27	46	7	33	11	37	17	30	19	
Bay City	28	3	12	3	28	23	31	23	31	15	35	7	43	9	42	28	42	17	29	14	39	5	30	19	
Fairview	32	14	20	3	29	22	31	13	33	14	34	7	40	28	41	10	43	4	29	14	43	19	36	15	
Fort Canby, Wash.	30	3	16	3	33	14	38	27	40	11	45	7	51	4	51	28	48	30	41	14	42	29	32	17	
Gardiner	36	3	16	4	31	21	34	13	36	14	38	6	45	8	47	29	47	27	35	15	41	17	32	17	
Glenora	28	4	6	3	25	26	28	7	32	1	35	7	40	22	38	11	38	17	22	13	34	1	28	2	
Langlois	34	8	16	4	31	10	34	23	35	2	36	5	42	9	44	26	34	30	33	13	36	17	29	19	
Newport	22	1	12	2	31	23	29	27	37	10	40	7	42	1	44	28	42	18	27	19	31	30	20	1	
Toledo	30	2	8	4	25	25	29	13	34	14	36	6	37	11	40	10	40	3	26	14	37	16	28	19	
Crescent City, Cal.	33	12	23	4	33	10	33	29	33	12	36	13	39	4	41	25	40	14	32	15	39	5	32	19	
WILLAMETTE VALLEY.																									
Albany	29	7	2	4	28	15	32	23	38	1	41	7	44	2	44	28	44	18	30	13	37	5	31	19	
Bull Run	28	6	—	4	26	21	28	12	35	1	38	6	40	7	41	27	41	22	25	13	35	10	29	2	
Corvallis	29	3	1	4	29	22	31	13	33	14	35	6	40	7	41	27	41	22	25	13	35	10	29	2	
Falls City	29	3	1	4	29	22	31	13	33	14	35	6	40	7	41	27	41	22	25	13	35	10	29	2	
Forest Grove	20	31	—	2	24	17	29	27	30	1	35	6	40	8	41	28	43	2	28	14	36	1	29	28	
Government Camp	8	7	—	4	12	17	14	13	26	13	27	7	32	6	31	29	31	6	18	14	27	5	16	14	
Irvington (near Portland)	20	4	6	3	30	5	30	13	36	15	37	6	50	9	48	17	41	8	31	12	42	1	29	19	
McMinnville	27	7	—	4	27	23	29	13	32	12	37	6	40	23	32	21	40	1	25	14	36	2	30	27	
Miramonte Farm	22	7	—	4	25	23	28	13	31	15	33	6	41	6	40	28	41	7	29	14	35	2	29	3	
Monmouth	28	7	—	4	28	22	29	13	32	14	36	21	39	8	40	11	38	7	29	14	35	2	28	3	
Monroe	27	3	—	4	27	22	28	13	32	14	36	21	39	8	40	11	38	7	29	14	35	2	28	3	
Mount Angel	18	3	—	4	27	22	28	13	32	14	36	21	39	8	40	11	38	7	29	14	35	2	28	3	
Newberg	29	22	—	4	26	23	27	8	31	15	34	6	40	10	39	28	41	2	26	14	36	2	27	3	
Portland	29	6	9	4	31	25	31	13	38	15	39	6	51	10	46	28	46	14	34	14	38	1	30	28	
Salem	26	7	—	4	25	26	28	13	34	2	32	6	35	13	40	11	40	8	23	14	35	2	27	17	
Stafford	21	7	0	4	27	3	29	13	36	1	35	6	45	11	44	28	45	7	29	14	35	1	26	3	
Vancouver, Wash.	15	3	6	3	26	23	31	5	35	13	36	6	44	3	42	30	42	17	26	14	34	1	27	19	
Verona	21	3	2	3	24	26	28	7	32	10	35	30	38	3	40	13	40	14	25	14	34	2	25	19	
SOUTHERN OREGON.																									
Ashland	27	14	0	4	28	10	28	13	29	12	32	6	40	4	40	28	36	6	26	15	31	2	24	27	
Buckhorn Farm	26	3	8	4	25	13	26	22	27	2	36	20	36	9	37	22	35	2	23	14	34	20	25	19	
Grants Pass	26	1	10	6	28	26	30	13	29	2	36	6	40	22	39	22	38	14	25	14	34	1	22	19	
Jacksonville	27	3	5	4	27	10	30	22	30	1	35	6	43	22	41	22	37	5	28	13	33	22	24	29	
Roseburg	32	3	7	4	28	22	31	13	32	2	36	6	44	22	43	23	43	14	29	14	35	17	27	19	
Williams	27	26	4	4	26	26	27	23	29	2	31	6	38	8	36	27	35	14	22	14	29	1	21	19	
COLUMBIA RIVER VAL.																									
Arlington	0	4	—	3	4	28	17	29	5	36	2	43	9	42	4	48	30	45	7	28	13	33	16	18	19
Blalocks	15	6	4	4	31	17	33	13	38	2	45	6	50	1	50	12	49	6	36	13	36	17	21	10	19
Cascade Locks	15	6	4	4	30	25	32	13	40	1	42	7	48	1	45	29	45	14	30	14	39	5	26	19	
Heppner	4	8	—	3	22	17	25	23	29	2	34	6	40	21	39	28	39	7	20	13	30	2	12	20	
Hood River (near)	8	6	—	3	26	23	29	13	32	3	38	7	42	23	39	14	40	8	24	14	33	17	21	19	
Pendleton	—	6	—	4	20	16	27	25	32	15	37	6	42	1	42	29	40	8	22	13	31	4	14	19	
The Dalles	9	5	—	3	28	17	31	13	34	1	40	6	45	1	45	12	42	8	29	14	34	22	22	18	
Walla Walla, Wash.	—	4	—	6	5	28	26	32	13	37	2	42	6	47	1	47	29	46	8	30	14	31	3	9	19
Weston	—	10	3	—	15	4	22	25	30	11	34	5	42	4	40	29	38	6	20	12	29	1	6	19	
PLATEAU DISTRICT.																									
Baker City	5	4	—	20	4	14	14	23	28	1	31	6	41	5	37	15	33	8	18	11	26	17	6	14	
Beulah	—	1	—	23	4	15	22	19	5	19	1	28	6	36	1	28	15	18	2	18	23	—	—	—	—
Burns	—	4	—	24	3	14	20	20	12	22	1	30	6	40	1	37	15	35	24	18	11	25	5	0	25
Dayville	15	7	—	10	4	21	10	28	5	30	10	30	6	40	1	37	15	35	24	18	11	25	5	0	25
Happy Valley	3	9	—	22	4	13	27	18	13	21	14	23	5	30	1	28	15	23	6	9	11	19	5	—	1
Joseph	—	3	—	24	4	18	14	20	28	20	14	26	6	37	21	33	15	32	7	19	11	23	17	3	20
Klamath Falls	13	22	0	4	18	10	22	28	22	2	32	4	36	22	32	15	36	6	9	11	23	17	3	20	
La Grande	4	3	—	18	3	16	13	27	12	32	1	36	4	41	22	41	14	35	30	23	9	27	16	15	17
Lakeview	—	17	—	3	11	9	18	30	18	1	29	5	35	3	28	21	28	30	22	14	22	4	2	13	13
Lone Rock	1	8	—	18	3	8	17	18	23	21	14	22	6	31	6	31	11	29	6	5	13	18	2	6	17
Lorella	—	17	—	3	11	9	18	30	18	1	29	5	35	3	28	21	28	30	22	14	22	4	2	13	13
New Bridge	15	4	—	11	5	19	14	21	24	22	1	29	6	37	23	32	15	31	6	16	11	17	23	—	5
Payette, Ida.	10	3	—	15	4	25	12	25	30	25	2	30	5	46	22	35	14	36	7	20	10	25	22	—	6
P. Ranch	15	4	—	9	4	18	9	22	12	26	1	27	6	38	4	32	14	28	5	19	31	21	16	18	27
Prineville	18	3	—	17	4	16	6	16	20	23	6	24	8	32	18	30	5	31	7	19	31	21	16	18	27
Riverside	3	13	13	3	16	6	16	18	27	19	2	22	1	26	14	15	6	—	2	9	5	4	—	21	17
Silver Lake	10	12	—	4	10	10	19	18	13	17	3	17	5	16	14	23	6	11	10	13	5	—	4	19	19
Spurta	9	3	—	15	3	15	12	21	24	2	28	6	39	22	33	20	33	6	23	10	26	21	8	26	20
Vale	4	2	—	12	4	19	27	20	17	20	1	29	6	39	23	30	15								

Monthly and Annual Precipitation for the Year 1899, with Departures from the Normal.

Stations.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Annual.	
	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.
COAST DISTRICT.																										
Alpha.....	18.84	+6.82	12.52	+4.25	4.21	-4.66	8.84	+3.35	5.57	+1.80	2.60	-0.35	0.52	-0.72	3.32	.....	2.95	.....	8.50	.....	22.92	.....	13.68	.....	.....	.....
Astoria.....	7.45	-5.12	7.50	-1.18	6.06	-0.83	5.01	-0.83	4.58	-0.74	1.57	-0.18	0.10	-0.44	2.25	+1.79	1.71	-1.00	10.28	+4.92	17.77	+7.41	13.30	+0.95	**	+26.04
Bandon.....	23.53	.....	16.89	.....	6.06	.....	14.99	.....	9.32	.....	3.51	.....	0.44	.....	5.43	.....	2.87	.....	6.98	+1.61	15.81	+9.13	10.87	-1.55	70.74	+2.14
Bay City.....	5.57	.....	7.88	.....	6.62	.....	4.34	.....	4.53	.....	0.61	.....	0.02	.....	1.97	.....	1.58	.....	6.24	.....	14.86	.....	13.58	.....	67.80	.....
Coguille River L. H.....	12.36	.....	10.66	.....	10.35	.....	6.22	.....	3.97	.....	1.23	.....	T.	.....	2.57	.....	2.08	.....	.....	.....	12.45	.....	14.24	.....	.....	.....
Fairview.....	15.48	+5.91	11.83	+3.82	2.84	-4.84	7.07	+1.88	5.50	+2.31	2.26	-0.44	0.52	-1.01	2.97	+1.90	3.10	+0.07	8.00	+2.43	16.03	+7.17	14.45	-0.30	66.10	+17.61
Fort Canby, Wash.....	13.06	-1.01	11.74	+2.27	7.23	-1.24	7.65	-0.39	5.70	-0.44	2.18	+0.34	0.30	-0.69	4.22	+3.57	3.02	-1.22	7.39	+1.32	20.25	+12.98	18.45	-0.30	66.10	+17.61
Gardiner.....	30.08	+9.35	19.49	+7.87	12.57	-0.49	16.81	+1.96	6.94	-0.63	2.64	-0.88	0.00	-0.50	5.89	+5.11	3.02	-3.38	4.74	+7.35	11.33	+13.93	15.48	-2.97	33.92	.....
Glenora.....	12.31	-5.73	9.91	-1.01	11.52	+1.85	7.30	-6.05	6.91	-4.05	2.12	+0.59	0.00	-0.50	3.06	+2.67	3.87	-0.15	9.65	+3.02	23.42	+11.34	18.15	+2.07	88	+6.35
Langlois.....	24.31	.....	20.79	.....	6.39	.....	15.55	.....	8.07	.....	2.28	.....	0.24	.....	8.13	.....	4.63	.....	11.32	.....	21.32	.....	11.60	.....	.....	.....
Nehalem.....	13.24	+2.60	12.95	+7.09	4.90	-1.88	6.81	+1.37	4.64	-0.12	1.44	-1.75	0.59	+0.01	4.21	+3.68	2.94	-0.03	7.87	+3.48	17.49	+8.70	11.67	-0.67	90.19	+22.57
Newport.....	10.06	-4.61	6.59	-1.74	2.50	-3.03	5.99	-0.96	4.32	+0.86	1.87	-2.65	0.52	-0.09	4.27	+3.23	2.79	-0.86	4.32	-0.52	12.84	+6.51	.....	.....	6.65	+63.14
Tillamook Rock.....	13.80	-1.89	14.80	+4.51	7.20	+0.36	9.85	+2.47	5.45	-0.97	2.15	-0.28	T.	-0.04	2.80	+2.69	2.60	-0.23	2.95	+3.31	10.35	+0.62	4.05	-4.70	70.60	+5.41
Toledo.....	11.06	-0.69	10.95	-0.23	11.62	+1.61	3.20	-4.20	4.40	-0.33	1.30	-0.18	0.09	-0.25	1.53	+1.30	2.61	-0.06	8.36	+4.29	20.15	+12.19	11.28	-0.39	86.55	+16.00
Crescent City, Cal.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
WILLAMETTE VALLEY.																										
Albany.....	5.80	-2.36	5.94	+0.13	5.54	+0.92	.....	.....	2.66	.....	0.64	.....	0.03	.....	3.20	.....	1.30	.....	3.17	.....	8.89	.....	7.45	.....	46.99	.....
Albany (river station).....	5.56	.....	5.37	.....	5.74	.....	2.98	.....	8.38	.....	2.69	.....	0.28	.....	6.05	.....	2.77	.....	8.08	.....	12.35	.....	8.70	.....	.....	.....
Bull Run.....	6.26	-0.33	5.61	+0.76	5.16	+0.68	3.64	-0.28	2.26	-0.40	0.42	-0.74	0.07	-0.08	2.76	+2.48	1.04	-0.33	3.97	+1.10	10.93	+6.72	7.57	+0.58	49.69	+10.16
Corvallis.....	.....	.....	5.08	+1.20	5.27	+2.93	7.78	-0.30	2.80	+0.53	.....	.....	T.	-0.53	3.14	+2.80	1.39	-0.24	2.68	+0.07	6.14	+3.01	5.33	-1.33	.....	.....
Eugene.....	5.32	.....	6.76	.....	5.64	.....	2.54	.....	3.23	.....	1.05	.....	0.07	.....	2.92	.....	2.64	.....	7.25	.....	20.92	.....	10.79	.....	91.33	.....
Eugene (river station).....	15.69	.....	11.19	.....	6.60	.....	9.13	.....	3.12	.....	0.97	.....	0.07	.....	2.92	.....	2.64	.....	7.25	.....	20.92	.....	10.79	.....	91.33	.....
Falls City.....	8.58	+0.74	7.08	+2.15	5.38	-0.73	4.47	+1.05	2.79	+0.47	.....	.....	.....	.....	7.56	+2.38	3.26	-0.06	10.23	.....	11.60	.....	5.73	-0.09	.....	.....
Forest Grove.....	20.79	.....	22.22	.....	15.28	.....	12.70	.....	8.47	.....	3.68	.....	0.32	.....	2.60	+2.38	1.25	-0.06	10.23	.....	11.60	.....	5.73	-0.09	.....	.....
Governor Camp.....	5.55	-0.15	4.13	-0.38	2.57	-1.13	2.18	-0.36	5.70	-1.71	1.00	-0.65	0.32	.....	2.60	+2.38	1.25	-0.06	10.23	.....	11.60	.....	5.73	-0.09	.....	.....
Irrington (nr Portland).....	8.26	+0.66	6.06	-1.31	3.39	-1.14	5.00	+1.21	2.89	-0.66	0.70	-1.29	0.30	+0.17	3.71	+3.34	2.56	-0.79	5.23	+1.57	12.00	+6.76	6.38	-1.29	56.68	+12.75
McMinnville.....	6.45	-1.79	6.29	-2.55	4.00	-2.52	2.22	+0.60	3.55	+0.01	0.87	-0.51	0.43	+0.16	2.64	+2.25	2.15	-0.25	3.67	-0.48	8.12	+2.48	6.30	-0.64	49.09	+2.36
Miramonte Farm.....	4.02	.....	4.33	.....	4.01	.....	4.91	.....	2.28	.....	0.86	.....	0.31	.....	2.20	.....	1.69	.....	4.85	.....	11.04	.....	7.84	.....	55.61	.....
Monmouth.....	8.55	.....	6.35	.....	4.01	.....	3.95	.....	2.15	.....	0.77	.....	T.	.....	2.26	.....	1.69	.....	4.85	.....	11.04	.....	7.84	.....	55.61	.....
Monroe.....	5.38	-2.34	5.31	+1.52	5.01	+0.07	4.90	+0.53	3.85	+0.83	.....	.....	0.03	-0.70	.....	.....	0.82	-0.04	3.73	-0.35	10.35	+5.87	5.80	-2.22	.....	.....
Mount Angel.....	6.86	-1.08	5.18	+1.57	3.20	-1.63	4.81	+0.02	3.21	-0.24	0.76	-0.61	0.22	-0.08	2.44	+1.89	2.06	-0.11	4.40	+0.56	10.35	+5.87	5.80	-2.22	.....	.....
Newberg.....	6.42	-3.71	4.20	-1.92	3.20	-3.24	3.73	+0.43	3.16	-0.77	0.62	-1.23	0.47	-0.11	2.50	+1.95	1.37	-0.38	3.97	-0.09	7.56	+1.78	5.56	-2.76	48.75	+3.17
Portland.....	5.76	-2.21	6.35	+2.99	4.13	-0.84	3.72	-1.16	3.90	+0.01	0.25	-1.24	0.00	-0.24	2.91	+2.58	1.35	-0.80	3.95	-0.01	9.22	+4.04	6.58	+0.07	48.12	+3.18
Salem.....	8.06	.....	6.39	.....	4.22	.....	5.65	.....	3.89	.....	1.63	.....	1.15	.....	3.51	.....	2.07	.....	4.90	.....	9.22	.....	7.65	.....	58.72	.....
Stafford.....	6.46	-0.42	4.39	-0.80	2.46	-0.16	3.75	+0.16	4.00	+1.64	1.20	-0.73	0.10	-0.99	3.03	+2.38	1.83	-0.15	5.05	+2.10	9.07	+4.15	5.86	-0.91	47.20	+8.62
Vancouver, Wash.....	8.65	-1.23	6.81	-1.35	5.18	-1.06	5.78	-0.34	3.65	+2.31	0.81	-1.57	0.02	-0.55	2.83	+2.36	2.10	-0.71	5.61	-0.62	10.96	+2.67	6.50	-4.10	59.17	-2.93
Vernonia.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
SOUTHERN OREGON.																										
Ashland.....	2.63	-0.49	1.77	-0.41	3.54	+1.63	1.07	-0.68	1.30	-0.42	0.32	-0.78	0.00	-0.59	0.61	+0.44	0.32	-0.41	2.38	+0.94	2.46	+0.59	3.14	-0.45	19.54	-0.63
Backhorn Farm.....	12.49	.....	7.14	.....	9.55	.....	0.82	.....	1.80	.....	0.08	.....	0.00	.....	1.15	.....	1.11	.....	7.07	.....	17.74	.....	13.70	.....	73.41	.....
Grants Pass.....	5.50	-1.97	3.60	-0.91	4.82	-0.94	1.44	-0.33	3.04	-0.33	0.29	-0.79	0.00	-0.07	0.96	+0.72	0.59	-0.52	7.20	+2.29	7.98	+4.35	7.24	+1.55	39.04	+4.50
Jacksonville.....	5.55	+1.02	4.53	+1.16	4.05	+1.67	1.29	-0.10	3.81	-0.61	0.40	-0.52	0.09	-0.07	0.97	+0.80	0.54	-0.47	2.89	+1.57	4.78	+2.04	6.73	+1.49	33.63	+9.20
Placer.....	8.11	.....	7.00	.....	6.82	.....	1.51	.....	2.53	.....	0.66	.....	0.00	.....	1.34	.....	1.11	.....	12.25	.....	57.29	.....	9.62	.....	57.99	.....
Roseburg.....	4.57	-1.69	6.27	+1.48	7.31	+3.74	2.27	-0.34	2.66	+0.67	0.62	-0.64	0.00	-0.44	2.23	+1.97	0.62	-0.38	3.87	+1.10	5.63	+1.94	6.92	+0.47	42.97	+7.88
Williams.....	5.59	-1.41	4.05	-0.03	5.18	+1.02	0.93	-1.56	1.70	-0.66	0.55	+0.48	0.00	-0.10	0.76	-0.68	0.70	-0.37	3.17	+1.37	7.37	+3.80	7.00	-0.01	37.00	+3.21
COLUMBIA RIVER VAL.																										
Arlington.....	2.31	+0.46	1.23	+0.58	0.23	-0.67	0.27	-0.39	0.58	-0.27	0.09	-0.30	0.00	-0.24	0.59	+0.51	0.49	+0.10	1.51	+0.45	1.52	+0.59	1.29	-0.23	10.11	+0.59
Blalocks.....	0.80	.....	0.80	.....	0.80	.....	0.52	.....	T.	.....	0.33	.....	T.	.....	0.41	.....	0.41	.....	1.51	.....	2.58	.....	1.12	.....	.....	.....
Cascade Locks.....	15.34	+1.30	13.93	+4.06	6.85	-0.86	11.65	+2.20	4.65	-0.94	2.41	-0.22	0.08	-0.86	4.82	+4.21	2.69	-0.88	7.74	-0.04	16.66	+7.56	11.83	-1.97	97.95	+18.25

Chart II. LOCATION OF OBSERVING AND FORECAST DISPLAY STATIONS.

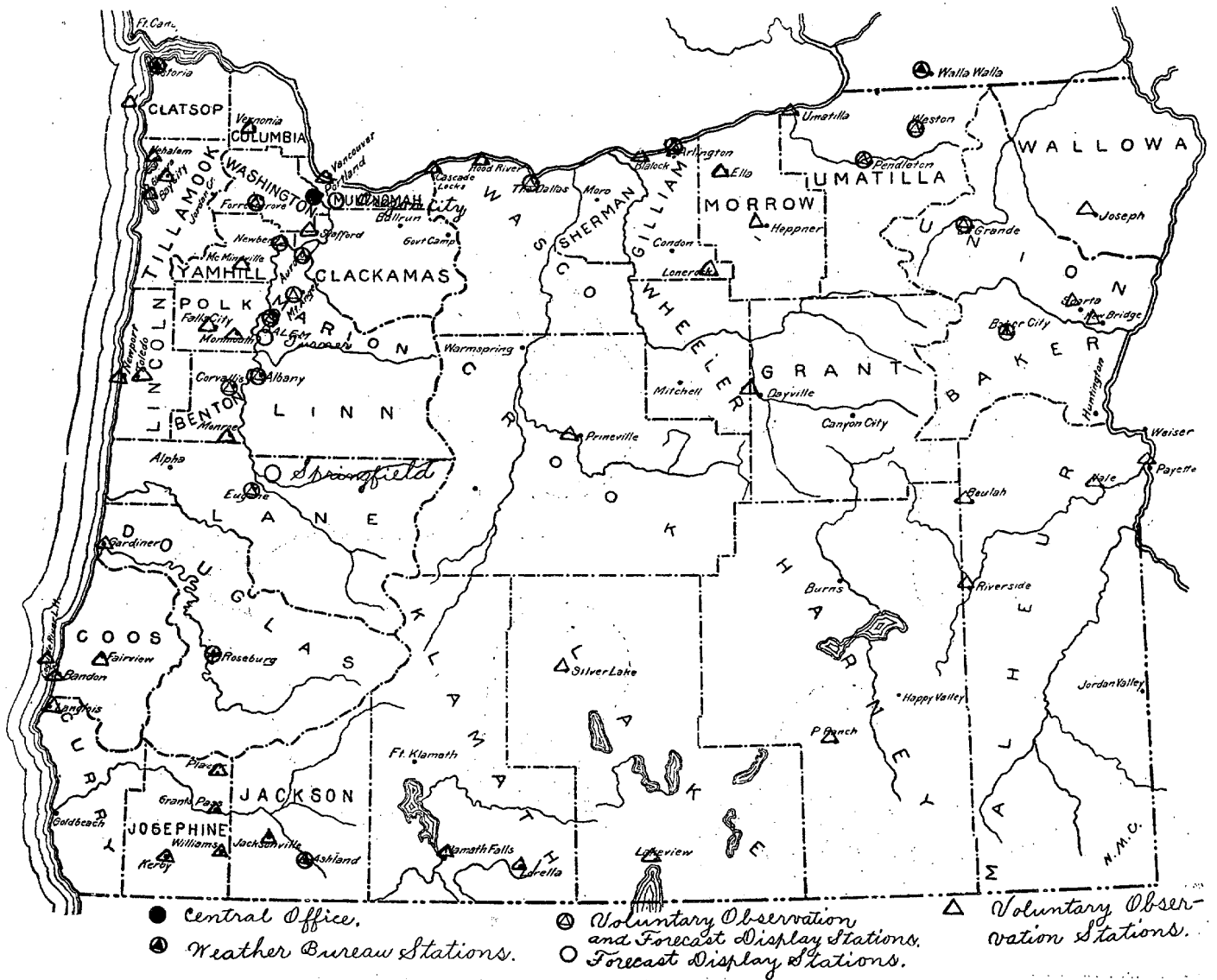
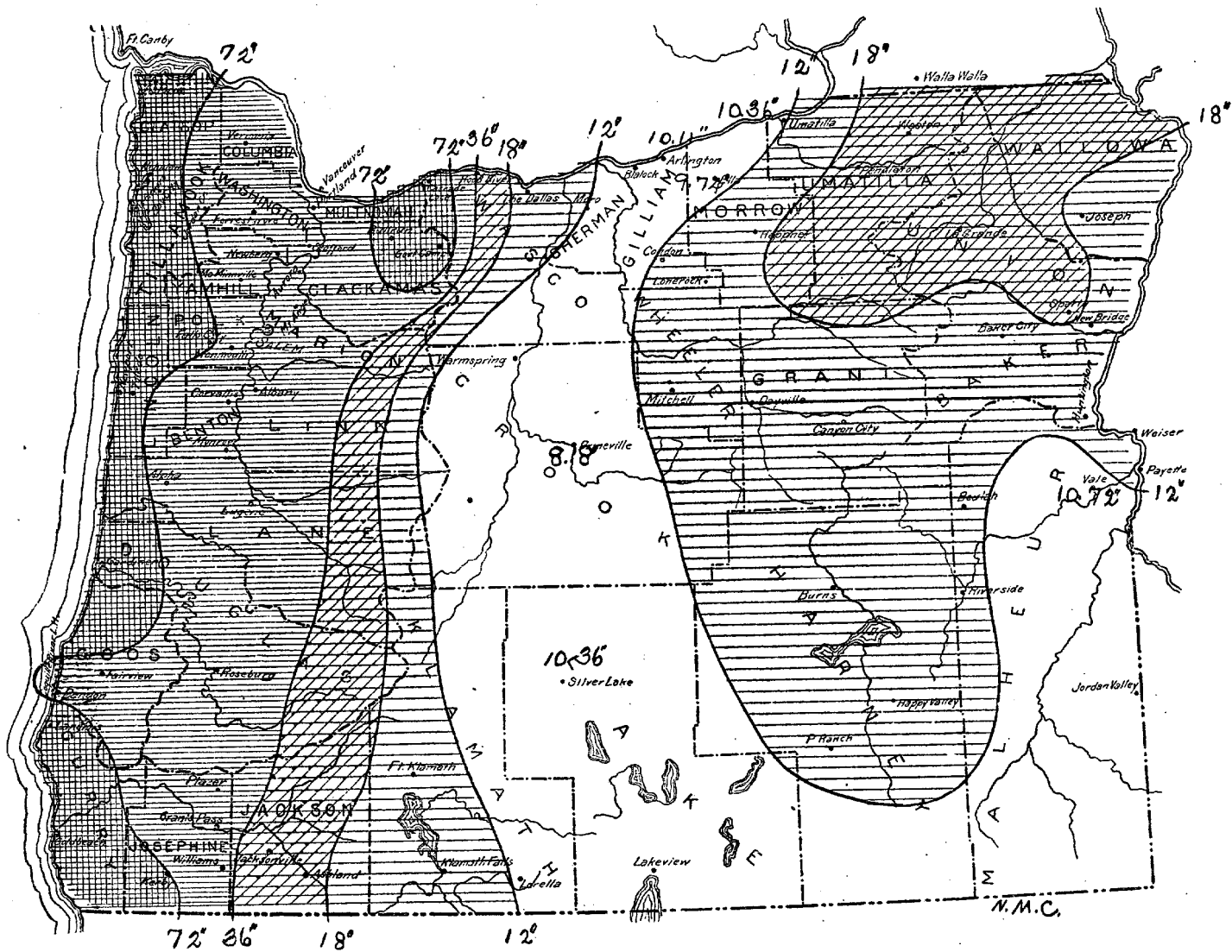


Chart III. TOTAL ANNUAL PRECIPITATION.

YEAR, 1899.



SCALE OF SHADES (IN INCHES).



8 to 12 12 to 18 18 to 36 36 to 72 OVER 72

Daily Forecast and Frost Display Stations.

Stations.	Displaymen.	Stations.	Displaymen.	Stations.	Displaymen.	Stations.	Displaymen.
Albany	F. M. French.	Corvallis	Oregon Agri. College.	Oregon City	Wm. R. Logus.	Springfield	Washburn & Son.
Arlington	C. A. Shurtie.	Engene	J. H. Day.	Endleton	Prof. H. L. Tunkington.	Stacyton	W. H. Cooper.
Ashland	F. H. Carter.	Forest Grove	Prof. A. R. Sweetser.	Portland	U. S. Weather Bureau.	The Dalles	Athletic Club.
Aurora	H. A. Snyder.	La Grande	J. H. Robbins.	Roseburg	U. S. Weather Bureau.	Turner	G. F. Robertson.
Baker City	U. S. Weather Bureau.	Mount Angel	Dr. Urban Fisher.	Salem	Secretary of State.	Weston	M. A. Baker.

Voluntary Observers.

Stations.	Observers.	Stations.	Observers.	Stations.	Observers.	Stations.	Observers.
Alpha	C. A. Potterf.	Eugene	University of Oregon.	Langlois	Capt. S. T. Malehorn.	Prineville	Geo. Summers.
Arlington	C. H. Shurtie.	Fairview	Wm. Bettys.	Lone Rock	R. M. Johnson.	Riverside	J. D. Fairman.
Ashland	F. H. Carter.	Falls City	Frank Butler.	Lorella	A. R. Campbell.	Roseburg	U. S. Weather Bureau.
Astoria	U. S. Weather Bureau.	Forest Grove	Pacific University.	McMinnville	Prof. A. M. Brumback.	Salem	C. T. Roberts.
Baker City	U. S. Weather Bureau.	Gardiner	J. S. Gray.	Miramonte Farm	G. Meucke.	Silver Lake	G. B. Wardell.
Bandon	George Bennett.	Glenora	Mrs. Jennie A. Reeber.	Monmouth	State Normal School.	Sparta	Hon. J. A. Wright.
Bay City	Capt. J. J. Dawson.	Government Camp	O. C. Yocum.	Monroe	J. H. Starr.	Stafford	J. P. Gage.
Benlah	W. S. Cooley.	Grants Pass	J. B. Paddock.	Mount Angel	Rev. Dr. U. F. Fisher.	The Dalles	S. L. Brooks.
Blalocks	C. R. Smead.	Happy Valley	J. H. Neal.	Nehalem	J. M. Alley.	Tillamook Rock	U. S. L. H. Koeper.
Buckhorn Farm	E. F. Meissner.	Heppner	Arthur Smith.	Newberg	O. M. Coffin.	Toledo	Otto O. Krogstad.
Bull Run	Portland Water Works.	Hood River	Dr. P. G. Barrett.	New Bridge	Frank Craig.	Umatilla	J. W. Duncan.
Burns	W. C. Byrd.	Irvington	Dr. Geo. Wigg.	Newport	Capt. J. E. Mathews.	Vale	Finley McDonald.
Cascade Locks	W. G. Brown.	Jacksonville	E. Britt.	Payette, Ida.	Dr. F. B. Delano.	Vancouver, Wash.	A. A. Quarnberg.
Coquille River L. H.	U. S. L. H. Keeper.	Joseph	J. D. McCully.	Pendleton	Wm. Hilton.	Veronia	L. W. Van Dyke.
Corvallis	Oregon Agri. College.	Klamath Falls	Otto Heidrich.	Placer	W. H. Hampton.	Walla Walla, Wn.	U. S. Weather Bureau.
Crescent City, Cal.	D. S. Sartwell.	La Grande	J. H. Robbins.	Portland	U. S. Weather Bureau.	Weston	Miss M. M. Baker.
Dayville	J. Campbell-Martin.	Lakeview	A. Y. Beach.	P. Ranch	Thos. Sharp, Jr.	Williams	W. C. Stites.
Ella	W. B. Parsons.						

Special Wheat Reporters.

Reporters.	Stations.	Reporters.	Stations.	Reporters.	Stations.	Reporters.	Stations.
Agricultural College	Moscow, Ida.	Collins, E. J.	The Dalles, Ore.	McCain, James.	McMinnville, Ore.	Postmaster	Dayton, Wash.
Atkinson, Eugene	Pullman, Wash.	Dodd, E. J.	Colfax, Wash.	Mitchell, J. L.	Kendrick, Ida.	Robbins, J.	La Grande, Ore.
Baker, Miss Maud	Weston, Ore.	Gibson, Thos.	Roseburg, Ore.	Newman, F.	Walla Walla, Wn.	Sinclair, George	Ritzville, Wash.
Brandt, A. M.	Rockford, Wash.	Gilbert, Henry	Eureka, Wash.	Nottingham, R. L.	Oakesdale, Wash.	Smith, A.	Heppner, Ore.
Buckley, W. A.	Sprague, Wash.	Hilton, Wm.	Pendleton, Ore.	Paddock, J. B.	Grants Pass, Ore.	Starr, E. D.	Brownsville, Ore.
Burkhart, C. G.	Albany, Ore.	Mays, F. W. D.	Pomeroy, Wash.	Pentland, E. C.	Independence, Ore.		

Crop Correspondents.

Correspondents.	Stations.	Correspondents.	Stations.	Correspondents.	Stations.	Correspondents.	Stations.
Ainsworth, J. W.	Wasco.	Dixon, W. F.	Woodburn.	Kimberland, G. H.	Mount Vernon.	Robinson, F. M.	Beaverton.
Atkinson, Eugene	Sand Lake.	Dodd, E. J.	Springfield.	King, J. R.	Weston.	Robinson, Miss Grace.	Clackamas.
Austin, Lincoln	Flora.	Ebersole, J. F.	Macley.	Kirkwood, James.	Farmington.	Rouse, L. J.	Enterprise.
Baker, Clyde	Graine.	Eddy, Perry	Hoskins.	Kliensmith, Henry.	Clarkes.	Ruble, David	Walport.
Baker, C. H.	Walterville.	Eggl, John	Dundee.	Kloestch, Jacob	Sublimity.	Schmitt, Henry	Athena.
Baker, H. J.	Pine.	Evans, N. C.	Hood River.	Knowles, J. B.	Rickreall.	Scott, Henry	Melrose.
Baker, Maude M.	Weston.	Farnsworth, F. P.	Hartman.	Krogstad, Otto O.	Toledo.	Scott, J. H.	Tangent.
Baldwin, L. D.	Buena Vista.	Fisher, J. K.	Haines.	Kruse, J. L.	Stafford.	Severy, D. E.	Siltz.
Baruett, W. M.	Wasco.	Fleck, Peter	Grant.	Lamb, F. M.	Tillamook.	Shanks, F. H.	Mount Angel.
Beach, Edwin R.	Lexington.	Flett, W. G.	Olex.	Lambert, Nick	Sublimity.	Shanno, Emile	The Dalles.
Beaty, F. J.	Chemawa.	Fligg, George W.	Enderly.	Lawton, D. T.	Medford.	Shives, Cruden	Buena Vista.
Billings, A. B.	Mount Hood.	Forbes, S. W.	Browtown.	Loggan, R. O.	Philomath.	Sizemore, J. A.	Juntura.
Bock, G. A.	Aurora.	Fullerton, C. P.	Alsea.	McCall, J. M.	Island City.	Soggan, R. O.	Philomath.
Boles, W. H.	Philomath.	Funk, Louis	Logan.	McCloskey, Sol. J.	Norway.	Smith, A. W.	Oakville.
Bonney, A. A.	Tygh Valley.	Ganet, D. M. C.	Hillsboro.	McKee, D. A.	McKee.	Smith, E. F.	Cottage Grove.
Boyd, W. H.	Beaverton.	Garrigus, J.	Greenville.	McMahon, O. A.	Thurston.	Smith, J. W.	Macksburg.
Bradford, I. N.	Union.	Glethens, L. A.	Athena.	Macpherson, A. E.	Sumpter.	Smith, M. F.	Hubbard.
Brattain, J. E.	Springfield.	Glassford, H. H.	Wren.	Magness, A. P.	Wheatland.	Smith, R. M.	Monmouth.
Bristo, H. T.	Dusty.	Gooley, Ed	Mount Angel.	Massey, W. A.	Merlin.	Smith, T. W. B.	Corvallis.
Buckman, Fred	Damasus.	Goulding, H.	Laurens.	Mayer, A. J.	Gravelford.	Starr, Miles	Monroe.
Buckner, W. F.	Sidney.	Gourley, James G.	Lutgens.	Mayfield, G. E.	Elgin.	Steiner, J.	Wolf Creek.
Bull, W. E.	Hopewell.	Hackenberger, Jos.	Rainier.	Menefee, W. R.	Dunfur.	Stevenson, J. G.	Engene.
Burill, J. A.	Knaprispe.	Haley, W. T.	Parker.	Merrill, U. S.	Merrill.	Stewart, G. D.	Garvais.
Buxton, H. T.	Buxton.	Hall, E.	Prairie.	Miles, Henry	Wisonville.	Stiles, W. E.	Williams.
Byron, James	Olalla.	Hall, J. W.	Myrtle Point.	Miller, Julius J.	Aurora.	Stockwell, Lena	Creswell.
Callahan, M. F.	Wardton.	Hames, C. A.	Narrows.	Miller, Wm. R.	Wedderburn.	Stoddard, H. C.	Hubbard.
Cambell, A. R.	Lorella.	Hames, J. A.	Eskey.	Miller, Mrs. Fannie.	Glandale.	Stuhlecker, Dan.	Graine.
Carr, Noel E.	Tule Lake.	Hammie, O. P.	Belvan.	Mills, C.	Beaver.	Swan, G. G.	Dora.
Cates, John A.	Tolocast.	Hammond, E. P.	Medford.	Mills, Seth A.	Newberg.	Talcott, W. H.	Wapinitia.
Churchill, J. L.	Coles Valley.	Hanson, J. A.	Oakland.	Minnick, John W.	Union.	Taylor, H. J.	Pendleton.
Churchill, J. S.	Springfield.	Harbison Bros.	Hood River.	Moore, W. A.	Myrtle Creek.	Thiessen, H.	Milwaukie.
Clark, F. P.	Zena.	Harlan, J. R.	Harlan.	Morelock, J. P.	Wallowa.	Thompson, L. T.	Coles Valley.
Clark, O. D.	Seal Rock.	Harrington, Marie	Highland.	Morris, D. M.	Turner.	Underwood, A. V.	Biglow.
Clarke, Wm. B.	Millwood.	Hayes, T. F.	Woodburn.	Morrison, G. M.	Adams.	Vidito, Willis	Alsea.
Clarke, William J.	Gervais.	Henry, John	Beaverton.	Morrison, Mrs. A.	Kerby.	Vincent, T. T.	Wren.
Coleman, Harry	Beaverton.	Hiatt, J. G.	Selma.	Mosher, D. H.	Redland.	Wagner, I. M.	Turner.
Colt, J. A.	Summerville.	Hibbard, K. L.	Willard.	Nealon, S. M.	Table Rock.	Wakefield, Ira	Phoenix.
Corneli, E. W.	Wilsonville.	Hilleary, W. M.	Turner.	Newell, A. E.	Damasus.	Walker, S. T.	Forest Grove.
Covett, Dr. D. A.	Logan.	Hillegas, M. J.	Springfield.	Newell, W. K.	Dille.	Ward, E.	Wardton.
Covum, H. T.	Wapinitia.	Hindman, J. L.	Elgin.	Oakerman, Paul L.	Reedville.	Watson, A. Lyon.	Springbrook.
Crabtree, Newton	Scio.	Hindman, W. B.	Elgin.	O'Bryant, J. F.	Hames.	Weaver, E. L.	Liberty.
Cray, A. E.	Lestine.	Hinrichs, P. D.	Hood River.	Overton, Dell	Westfall.	Weaver, J. W.	Myrtle Creek.
Crow, W. M.	Merlin.	Holden, C. H.	Florence.	Pasley, S.	Buxton.	Webber, Morris	Yones Valley.
Crowley, R. E.	Lorella.	Homes, F. C.	Ashland.	Parsons, W. B.	Ella.	Welch, John R.	Sunnyside.
Cummings, William L.	Shaw.	Howard, Mary S.	Mulins.	Patrick, W. H.	Central Point.	Westfield, W. I.	Grass Valley.
Cunningham, B.	Liberty.	Howe, J.	Perrydale.	Patton, T. B.	Macleay.	Wheeler, J. W.	Newberg.
Dalaba, S. H.	Salado.	Hoxie, J. M.	Wilderville.	Payne, S. L.	Westfall.	White, F. M.	Gales Creek.
Davis, A. I.	Crabtree.	Hug, Henry	Elgin.	Peacock, William P.	Parker.	White, W. L.	Aurora.
Davis, E. W.	Union.	Hunt, James L.	Oakland.	Penne, Peter	Farmington.	Whitten, John D.	Kingsley.
Davis, G. E.	Lorella.	Ingles, William E.	Manning.	Pound, F. L.	Anmsville.	Wigant, W. A.	Rural.
Davis, Watson	Roseburg.	Jack, Henry	Farmington.	Powell, J. S. S.	Buena Vista.	Wilson, E. D. F.	Aurora.
Davidson, T. C.	Liberty.	Johnson, J. C.	Scappose.	Price, E. H.	Ithane.	Wilson, F. P.	Logan.
Dextor, Robert	Heppner.	Johnson, Free	Roseburg.	Rees, J. H.	Springbrook.	Wood, John T.	Beaverton.
Dillard, John	Olele.	Jones, Buford	Brooks.	Richards, E. L.	Stephens.	Wood, John T.	Amity.
Diller, Edward W.	Melrose.	Jones, C. E.	Eight Mile.	Riddle, J. A.	Monmouth.	Woodruff, E. T.	Cleveland.
Dilley, E. J.	Wren.	Jory, John W.	Salem.	Ridtmann, Paul	Ione.	Wright, S.	Liberal.
Dimmick, A. R.	Scotts Mills.	Kennedy, J. M.	Glandale.	Roberts, L. O.	Noble.	Yates, Chris. P.	Sheridan.