U. S. DEPARTMENT OF COMMERCE

CHARLES SAWYER, Secretary
WEATHER BUREAU
F. W. REICHELDERFER, Chief

LOCAL CLIMATOLOGICAL SUMMARY

WITH COMPARATIVE DATA

1949

MEACHAM, OREGON

Compiled under the direction of DOUGLAS H. PARROTT



SEATTLE 1950

METEOROLOGICAL DATA FOR THE CURRENT YEAR

MEACEAM OREGON 1949

			Tempe	eratu	е						Precipit	ation				Rela bum					Wind	ı								Num	ber of	days				
Month	A	verage	•		Extr	nmes						Snow	, Sleet	, Hail	PST	PST	PST	PST	עד		Fa	stest :	nile *	oesibl	y cover sunset	Sunri	se to s	unset	n Hore	t, Hati	ē		Max.	temp.	Min.	temp.
	Daily maximum	Daily minimum	Monthly	Highest	Date	Lowest	Date	Degree day	Total	Greatest in 24 hrs.	Date	Total	Greatest in 24 hrs.	Date	4:30	10:30	4:30 p.	10:30 p.]	Average hourly spec	Prevailing direction	Speed	Direction	Date	Percent of p	Average sky sunrise to su	Clear	Partly cloudy	Cloudy	Precipitatio .01 inch or	1 8 6	Thundersto	Heavy fog	90° and above	32° and below	32° and below	Zero and below
J F M J J A S O N D	20.5 34.6 41.4 55.9 62.7 68.5 76.8 76.7 69.9 49.6 52.6 34.5	20.4 28.1 33.2 41.1 41.8 47.5 48.2 44.8 31.5 36.1	12.4 27.5 34.8 44.6 51.9 55.0 62.2 62.4 57.4 40.6 44.4 28.4	54 52 72 81 84 93 91 87 65 68	17 28 4 17 25 6 31 1 1 1 2+	-12 - 3 16 24 27 31 39 38 30 18 26	13 28 3 4 17 6 13 12	1631 1047 936 613 409 306 150 131 240 758 619 1132	1.48 6.71 1.25 1.00 1.96 0.78 0.22 0.16 2.01 2.89 5.31 3.06	0:18 0.35 0.59 0.41 0.10 0.09 0.96 0.69 1.76	18-19 26 21 1 16 23 23 9-10 6-7 22-23	7.9 2.7 T 0.0 0.0 T 4.2 4.9	2.1 1.6 T 0.0 0.0 T 3.0 2.4	26	86 77 83 76 64 68 67 77	80 74 76 54 59 43 36 42 62 63 77	80 81 74 51 54 35 29 31 44 63 67 80	83 87 87 68 72 63 53 54 62 72 73 81	6.1 5.7 5.7 5.9 6.3	SE NW WNW WNW WNW NNW ESE	32 19 21 21 25 27	W WSW WSW WSW WSW WSW WSW WSW WSW WSW W	7 14 27 20 2 24 26 6 16 9 27 24		7.2 8.3 8.1 6.2 4.9 3.4 3.3 5.2 6.2 6.2	7 4 2 7 10 9 18 17 10 8 8	5 1 7 9 5 16 8 10 10 11 6 3	19 23 22 14 16 5 5 4 10 12 16 27	14 20 15 9 10 7 4 3 8 9 11 20	10 13 4 1 0 0 0 0 0 3 2 13	0 0 0 1 6 0 3 6 2 0	4 3 4 2 1 0 0 0 3 3 6	0 0 0 0 0 0 3 1 0 0	31 13 2 0 0 0 0 0 0 0 0	31 28 28 12 4 2 0 0 2 18 10 29	11 2 0 0 0 0 0 0 0 0
Year	53.6	33.2	43.5	93	July 31	-12	Jan. 10	7972	26.83	1.85	Feb. 18-19	147.2	13.0	Feb. 18-19	76	58	57	71	6.5	SE	32 32	ANA ANA	2/14 6/24		6.2	101	91	173	130	46	18	26	4	62	164	13

^{*} Data entered in column headed Fastest Mile in this table is the fastest mile observed. This station is not equipped with automatic recording wind instruments.

MEANS AND EXTREMES FOR PERIOD OF RECORD

		T	empe	eratur	e								Pre	cipita	tion							telati umic				Wind			ne				Me	טת מפּ	mber	of da	ys	
	Mean	28			Entre	me		e days									Snow	r, Sleet	, Hail		PST	PST	P31	7		Fa	atest	mile	suns	y cover		nrise unset		nore	ie i		Ma ten	
Daily	Daily		Monthly	Record	Year	Record	Year	Mean degre	Mean total	Meximum monthly	Year	Minimum monthly	Year	Maximum in 24 hrs.	1 3	Mean total	Maximum monthly	Year	Maximum in 24 hrs.	Year	4:30 B.	4	4:30 p. 10:30 p.	Mean hourly spee	Prevailing direction	Speed	Direction	Year	Pet of poss	Average sk sunrise to	Clear	Partly cloudy	Cloudy		Snow, Steet, Fl. 1.0 or more Thunderstorms	Heavy fog	°2 90€	32.
31.7 36.8 41.6 50.5 65.2 76.5 76.0 66.6 53.4 41.0	22.5 26.5 31.4 39.5 42.3 48.4 48.3 42.5 38.5	5 2 5 3 5 5 4 5 5 6 5 5 9 5 4 5 9 5 4 5 5 9 5 4 5 5 6 5 6 5 6 5 6 6 6 6 6 6 6 6 6 6	9.7 4.1 0.9 9.9 3.8 2.5 2.2	51 66 81 87 89 93 91 89 78 68	1945 1946 1947 1946 1947 1948 1946 1949 1947 1945 1948	11 24 31 30 30 21	2 1945 3 1945 3 1945 4 1948 4 1945 5 1945 7 1946 1 1946 1 1948	995 956 724 468 342 133 123 646 910	4.78 3.08 2.59 2.97 2.17 1.01 0.36 2.14 3.22 5.33	5 6.75 6.71 5.54 3.61 4.36 3.48 1.36 0.74 2.86 6.00 7.77 7.48	1949 1945 1945 1948 1947 1948 1947 1946	0.83 1.25 1.00 1.10 0.78 0.02 0.13 1.62 1.01	1947 1949 1947 1947 1945 1947 1948 1945	2.34 1.19 1.27 1.51 1.05 0.96 0.32 0.96 1.57	1945 1946 1945 1946 1947 1946 1945 1946	32.7 26.6 16.8 1.3 0.1 T 0.0 T	62.0 55.0 34.9 6.4 0.7 T 0.0 T	1945+ 1946 1945	14.2 10.8 13.2 3.6 0.7 7 0.0	1948 1945 1945 1948 1945 1947	87 86 84 83 83 68 69 72 80	75 72 62 59 57 42 41 51 64	30 85 77 85 72 84 52 79 57 76 52 73 34 56 35 56 49 67 65 76	9.1 6.2 5.8 5.4 6.9 6.1 5.7 5.9 6.3	NW NW NW NW NW SE SK					5 7.8 8.5 8.1 7.6 6.8 6.2 3.4 3.6 5.2 6.4 8.3	5 4 2 2 3 6 7 17 18 12 8 3	5 3 7 6 9 10 10 7 8 7 4	5 21 23 22 21 15 12 4 6 11 16 23 24	5 16 17 19 17 13 12 4 4 9 12 19	5 9 0 8 0 5 2 0 6 0 3 0 5 0 2 1 0 8 0 12 0	4 3 4 2 0 2 2 6	000020000	5 5 16 30 8 27 3 28 1 19 0 5 0 0 0 0 0 0 0 0 12 4 23 14 28
52.8	33.7	7 4	3.3	93	July 1946	-1:	Jan.	8017	36.99	7.77	Nov. 1945	0.02	July 1945	3.00	Dec. 1946	185.5	68.8	Dec. 1948	22.9	Jan. 1947	81	63	76	6.5	SE	_				6.7	83	82	198	161	51 2:	2 40	2	46 176

⁽a) Length of record, years.**

** This station was established in March, 1943. Records for that year are therefore incomplete. Station records for the year 1944 are also incomplete. Length of record therefore includes only the years 1945, 1946, 1947, 1948 and 1949.

MONTHLY AND SEASONAL DEGREE DAYS

Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
1943-44		_	_	_	_	_	_	_	1031	_	_		
1944-45	-	-	268	340	969	1148	1102	967	1039	825	498	396	
1945-46	59	78	368	472	973	1155	1141	978	951	691	476	384	772
1946-47	136	94	351	822	988	1012	1265	865	791	678	352	384	773
1947-48	122	156	284	592	972	1087	1131	1116	1063	813	607	258	820
1948-49	196	178	360	587	999	1318	1631	1047	936	613	409	306	858
1949	150	131	240	758		1132						1000	

	Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
Ī														
						ľ								

REFERENCE NOTES

Unless otherwise indicated, dimensional units used in this bulletin are: temperature in degrees F.; precipitation and snowfall in inches; wind movement in miles per hour; and relative humidity in percent.

Sky cover is based on 0 for no clouds or obstructions to 10 for complete sky cover. Degree days are based on daily average temperatures of 65°F. Sleet and hail were included in snowfall totals, beginning with July 1948.

As of January 1, 1949, dewpoint values below 32°F. and relative humidity values at temperatures below 32°F. are expressed with respect to water rather than with respect to ice, as used prior to that date. Therefore, these hygrometric values before and after January 1, 1949, cannot accurately be combined without necessary conversion.

Heavy fog in the Means and Extremes Tables includes data referred to at various times in the past as "Dense" or "Thick". The upper visibility limit for heavy fog is 1/4

Below zero temperatures are preceded by a minus sign.

- No record.
- Also on other dates, months, or years.
 T Trace, an amount too small to measure.

Sale Price: 10 cent per copy. Checks and money orders should be made payable to the Treasurer of the United State. Correspondence regarding subscriptions should be addressed to the Weather Bureau Office in the city for which this summary was issued.

TOTAL PRECIPITATION

MEA	CHAM
OREGON	1949

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	An l
1943	_	_	41.9	43.4	43.4	_	62.2	60.2	_	46.0	-	-	_
944	_ !	_ !	31.8	_	-	_	_ !	-	58.0	54.0	32.6	28,0	-
1945	29.4	30.4	31.4	37.4	48.6	52.4	66.6	65.0	53.2	49.8	32.6	27.8	43.8
1946	28.3	30.0	34.2	42.2	49.6	52.4	62.6	63.8	53,3	38.4	32.0	32.4	43.3
947	24.2	34.0	39.4	42,4	54.0	52.2	61.8	60,4	56.3	45.9	32.5	29.8	44.4
948	28.5	26.5	30.6	37.8	45.4	57.0	59,2	59,5	53.8	46.1	31.7	22.4	41.5
949	12.4	27.5	34.8	44.6	51.9	55.0	62.2	62.4	57.4	40.6	44.4	28.4	43.5
							1						
					1			ł			!		
	1	1				, ,	1	1	1		1		

Year	Jan.	Feb.	Mar.	Āpr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Аппиа
1943	-	_	1.15	3.35	2.74	_	0.89	1.39	-	3.58	_	-	-
1944	-	-	2.18	-	-	-	-	-	2.46	0,69	3,05	1.16	-
1945	6.75	6.58	5,54	3,61	4.07	1.46	0.02	0.53	2.37	1.01	7.77	6.51	46.22
1946	6.11	3.98	3,31	1,82	3,37	2.32	0.97	0.25	1.83	6.00	4,28	7,48	41.72
1947	3.75	0.83	3.01	3.09	1.10	3.48	0.50	0.13	2.86	4.06	5.52	3.80	32.13
1948	2.30	5.81	2.34	3.41	4.36	2.80	1,36	0.74	0.62	2.13	3.77	5.41	35.05
1949	1.48	6.71	1.25	1.00	1.96	0.78	0.22	0.16	2.01	2,89	5,31	3,06	26.83
	(, ,										ļ	Į

MONTHLY AND SEASONAL SNOWFALL

Season	July	Āug.	Sept.	Oct	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Tota
1943-44		0	_	0.3	_	- ;	-		18.8		_	-	_
1944-45	1 -	-	0	0	19.1		41.8				T	0.7	- ا
1945-46	0	0	T	3.6	41.9	30.5	67.7			6.3	0		215.
1946-47	0	0	0	14.9	22,2	23.1	49.7		19.9	9.6	0	T	141.
1947-48	0	0	T	T	37.0	30.9	9.7	33,2	25.0	30.4	6.4	0	172.
1948-49	0	0	т	0.4	23.2	68.8	24,5	62.0	7.9	2.7	T	т	189,
1949	Ŏ	Õ	T	4.2		41.0				l		1	İ

	Season	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total
											٠		l l	
														į
١														

STATION HISTORY

The Weather Bureau Office at Meacham, Oregon, was established and put into operation on March 23, 1943. Its location of Latitude 45° 30' N. Longitude 118° 25' W. is in the Blue Mountains of Oregon. The station is located on the east side of the Meacham, Emergency Landing Strip. It is fairly open country to the west, but east of the station there are trees which obscure any landmarks in that direction. The farthest visibility marker is a hill five miles to the northwest.

The ground on which the instruments are set is bare and level. Most instruments are either in a shelter or on supports or towers. An anemometer and wind vane are located on a tower which is twelve feet above the roof or about twenty-eight feet above the ground. These were installed during March, 1943. The instrument shelter is located between the office building and the living quarters and is five and six tenths feet above the ground. It contains a dry and wet bulb thermometer and maximum and minimum thermometer. A psychrometer fan is used in determining wet bulb temperatures. This was set up in March, 1943. An

8-inch rain gage is located near the instrument shelter and was also set up in March, 1943. A weighing type rain gage is located between the office building and the living quarters and is mounted on a steel tower 8.9 feet above the ground and is of the single traverse type. It was located here in March, 1943. The station barometer was located here in March, 1943 and is 4056 feet above mean sea level and is mounted on a shielded barometer board in the office building. A 4-day barograph is located in the office building and was placed there in March, 1943. The ceiling light with a 500 watt bulb was installed in March, 1943 and has a 440 foot base line.

The observational program of this station consists of taking and recording hourly observations and three and six hourly additive data. These reports are transmitted over teletype circuit number 8011.

Normal station complement consists of five meteorological aids and station operations covers 24 hours daily, seven days a week. In the winter the station is accessible only by skis or snowshoes because of heavy snow.

GPO-S-FSO-2-6-50-400