

U.S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

ANNUAL
METEOROLOGICAL
SUMMARY

WITH COMPARATIVE DATA

1933

YAKIMA, WASH.

COMPILED BY
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Printed at
U.S. WEATHER BUREAU OFFICE
Peoria, Ill.
MARCH 15, 1934

ANNUAL METEOROLOGICAL SUMMARY

YAKIMA, WASH.

YEAR 1933

Lat. 46° 36' N.; Long. 120° 30' W. Elevation above sea-level [feet] 1076; above ground: thermometers, 58; rain gage, 52; anemometer, 67.

MONTH	TEMPERATURE						PRECIPITATION				Humidity Per cent		SUNSHINE			WIND [True velocities]				NUMBER OF DAYS														
	Mean daily maximum	Mean daily minimum	Mean 1933	Highest	Date.	Lowest	Date.	Total 1933	Greatest in 24 hours	Date.	Snowfall	5 a. m.	Noon	5 p. m.	Number of hours	Percent of possible	Cloudiness [scale 0 to 10]	Avg. miles per h. r.	Prevailing Dir.	Highest			Clear	Partly Cloudy	Cloudy	Precip. .01 or more	Snow 0.1 or more	Thunderstorms	Light fog	Dense Fog	Temperature			
																				Velocity	Direction.	Date.									32 or below	90 or above	32 or below	0 or below
January	41.5	24.6	33	59	8	9	19	.62	.15	29	8.0	78	62	63	159	57	6.8	5.3	nw	32	nw	5	5	9	17	8	6	0	6	2	5	0	25	0
February	39.4	18.8	29	57	25	9	9	.39	.16	28	4.6	72	52	51	165	57	6.0	5.3	w	27	w	22	7	12	9	5	1	0	0	7	0	21	3	
March	52.2	33.3	43	61	18	25	9	.99	.40	27	0.2	75	44	44	218	59	6.6	5.5	nw	26	nw	20	5	12	14	3	1	0	0	0	0	11	0	
April	64.6	39.8	52	81	27	29	9	.16	.09	8	0	60	32	33	329	81	4.1	7.1	nw	27	nw	3	14	10	6	3	1	0	0	0	0	5	0	
May	66.1	43.7	55	82	28	33	3	1.08	.41	1-2	0	72	36	36	310	66	6.2	7.0	nw	23	w	25	5	16	10	11	0	2	0	0	0	0	0	
June	80.1	53.8	67	100	13	41	10	.41	.37	25	0	59	31	27	370	78	4.4	7.3	nw	23	sw	7	12	12	6	3	0	0	0	0	4	0	0	
July	89.3	59.6	74	103	15	52	30	.06	.05	8-9	0	51	21	20	435	91	1.5	7.3	nw	19	nw	3	27	3	1	3	0	1	0	0	14	0	0	
August	88.8	59.3	74	102	15	51	22	.16	.11	30	0	56	25	22	362	82	2.5	6.5	nw	21	nw	20	21	5	5	3	0	1	0	0	16	0	0	
September	70.5	46.8	59	86	12	32	25	.62	.46	5	0	73	38	40	229	61	4.4	5.8	nw	26	sw	2	13	13	4	5	0	1	2	0	0	1	0	0
October	69.4	42.4	56	85	7	27	21	.45	.25	19	0	72	39	40	248	74	4.4	5.0	nw	26	sw	16	13	9	9	6	0	0	0	0	0	1	0	0
November	50.6	33.3	42	72	22	21	29	.21	.16	1-2	0	88	66	65	114	40	7.1	4.0	nw	21	sw	2	6	3	21	5	0	0	12	3	0	13	0	0
December	45.2	31.7	38	65	21	22	4	2.18	.68	25-26	7.5	87	74	75	61	23	8.5	5.1	nw	22	sw	20	2	4	25	19	4	0	8	3	3	0	16	0
Year	63.1	40.6	52	103	Jul 15	- 9	Feb 9	7.32	.68	Dec. 25-26	20.3	70	43	43	2999	64	5.2	5.9	NW	32	NW	Jan 5	130	108	127	79	17	5	30	8	15	34	93	3

COMPARATIVE DATA AND EXTREMES

Month	Temperature						Precipitation						Relative humidity, per cent		Sunshine	Wind (True velocities)					Average number of days												
	Average daily maximum	Average daily minimum	Normal	Absolute highest	Year	Absolute lowest	Year	Normal	Greatest in 24 hours	Year	Averagesnowfall	Greatest snowfall in 24 hours	Year	S a. m.		Noon—local time	S p. m.	Total hours	Per cent	Average hourly velocity	Prevailing direc- tion	Highest velocity	Direction highest velocity	Year	Clear	Partly cloudy	Cloudy	Rain, .01 or more	Snow (trace or more)	Thunderstorms	Dense fog	Max. temp. 90° or above	Minimum temp. 32° or below
YEARS	24	24	24	24	24	24	24	24	25	25	25	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Jan ...	35.4	19.3	27.4	60	*1913	-21	1930	1.23	.63	1929	8.8	7.9	1914	81	69	70	112	43	4.4	nw	32	nw	1933	5	7	19	9	15	0	4	0	28	3
Feb. ...	44.5	25.4	34.5	70	1932	-11	1929	.92	.53	1916	9.2	9.2	1916	78	56	55	173	59	5.0	nw	29	w	1930	7	10	11	4	5	0	1	0	22	2
Mar. ...	57.7	31.9	44.1	82	1911	13	*1917	.33	.73	1931	0.2	1.5	1932	70	43	40	242	63	6.0	nw	34	nw	*1929	7	10	14	7	2	0	0	0	11	0
April ...	66.4	33.3	52.5	94	1926	22	*1918	.47	.55	1928	0.1	2.0	1920	61	30	30	310	76	7.1	nw	32	ne	1931	9	11	10	3	1	0	0	0	3	0
May ...	73.5	45.3	59.0	98	1928	28	*1922	.61	.83	1921	T	T	*1922	63	23	29	349	75	7.6	nw	26	sw	*1930	10	12	9	4	0	1	0	1	0	0
June ...	81.1	52.0	66.4	103	*1925	32	1925	.59	.66	1915	...	...	...	60	29	27	377	79	7.2	nw	30	w	1929	15	7	8	4	0	2	0	4	0	0
July ...	88.8	57.4	71.4	111	1928	41	1924	.32	.91	1923	...	...	...	52	22	20	435	91	7.3	nw	29	nw	1929	24	4	3	2	0	1	0	13	0	0
August ...	87.0	65.8	69.5	103	*1920	36	1925	.17	.57	1923	...	...	...	55	24	22	390	89	6.8	nw	23	se	*1930	23	6	2	1	0	1	0	14	0	0
Sept. ...	76.4	46.5	61.1	98	1928	30	1926	.51	.86	1911	...	...	...	67	33	33	278	74	5.8	nw	27	w	1932	17	8	5	3	0	0	0	2	0	0
Oct. ...	65.2	37.5	50.2	89	*1919	12	1919	.61	1.02	1914	T	T	*1917	74	39	41	235	70	5.1	nw	29	w	1932	14	9	8	5	0	0	0	0	4	0
Nov. ...	48.9	23.3	38.9	72	1933	5	1911	.85	.91	1926	2.7	11.0	1921	82	58	62	140	50	4.4	nw	27	nw	1932	7	8	15	6	3	0	2	0	18	0
Dec. ...	37.2	22.5	30.7	66	*1921	-24	1919	1.31	.68	1933	7.8	7.3	1931	85	72	74	98	37	4.5	nw	27	w	1932	5	7	19	11	10	0	3	0	26	0
Annual	63.5	38.4	50.5	111	July 1928	Dec -24	1919	8.15	1.02	Oct 1914	22.9	11.0	Nov 1921	69	42	41	3139	67	5.9	NW	34	NW	Mar. *1929	143	99	123	59	36	5	10	34	112	5

* Also other dates.

Monthly and Annual Precipitation

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	An'l.
1909..	1.84	1.13	.18	...	...	...	...	...	.74	.32	1.76	.93	...
1910..	.73	.64	.21	.08	.35	.55	.00	.12	.38	.12	1.49	.71	5.38
1911..	.40	.34	.23	.11	1.10	.32	.02	.21	2.21	.12	.04	.28	5.38
1912..	1.82	.55	.21	.63	.27	.98	.22	.50	.17	.47	1.04	.36	7.22
1913..	.88	.30	.02	.51	.67	.78	T.	.02	.36	.96	1.49	.84	6.83
1914..	2.09	.53	.03	.69	.90	.21	.17	.00	.75	1.51	.71	.81	8.40
1915..	1.17	1.30	.77	.62	1.28	1.11	.43	.05	T.	.29	1.85	1.56	10.43
1916..	.71	1.60	1.17	.44	.13	.63	1.35	T.	T.	.05	.40	.74	7.22
1917..	.23	.47	.31	.59	.70	.28	.01	.00	.34	T.	1.28	1.96	6.17
1918..	.64	.73	.24	T.	.65	.11	.28	.30	.30	1.14	.51	.75	5.65
1919..	1.00	.99	.10	.38	.58	.01	.03	.08	.69	.12	.50	.99	5.50
1920..	.94	.04	.02	.53	.39	.33	.25	.44	1.18	.55	1.35	1.82	7.84
1921..	1.52	.59	.25	.35	.92	.27	T.	.02	.27	.31	2.33	1.24	8.07
1922..	.23	.18	.74	.03	.13	T.	.00	.18	.43	.85	.11	1.20	4.08
1923..	.45	.30	.19	.35	.42	.48	1.97	.80	.86	.49	.24	1.07	7.65
1924..	.59	.57	.02	.04	.04	.04	.18	.59	.50	1.03	2.08	.42	6.10
1925..	.71	.98	.13	.64	1.07	.08	T.	T.	.87	.14	.47	1.02	6.11
1926..	.53	1.36	.02	.05	.14	.27	T.	.29	.26	.40	3.11	1.19	7.62
1927..	2.08	.98	.18	.01	.32	.16	.03	.01	.93	.90	1.43	.06	7.14
1928..	1.41	.05	.70	1.21	.20	.20	.13	.08	.38	.47	.62	1.81	7.26
1929..	1.50	.01	.45	.09	.18	.55	T.	T.	.17	.05	T.	1.13	4.13
1930..	.52	1.19	.20	.08	.41	.44	.02	T.	.15	.24	.39	.26	3.90
1931..	1.24	.15	1.11	.02	T.	.91	T.	T.	.23	.33	.48	3.75	8.22
1932..	.76	.33	.49	.22	.96	.06	.16	.12	T.	.41	1.13	.72	5.36
1933..	.62	.38	.99	.16	1.08	.41	.06	.16	.62	.45	.21	2.18	7.32
Mean	.98	.64	.36	.33	.54	.38	.22	.16	.51	.47	1.00	1.11	6.70

Monthly and Annual Mean Temperature

1909..	19.4	38.3	46.6	...	...	...	...	...	63.5	50.7	40.0	24.6	...
1910..	27.5	31.2	49.7	55.4	63.7	64.8	74.4	68.0	61.8	53.6	39.2	32.0	51.8
1911..	30.6	33.6	47.2	55.6	56.9	68.4	76.0	70.4	58.5	49.1	37.8	31.8	51.3
1912..	26.6	38.8	42.4	52.5	62.0	69.9	71.2	67.3	59.4	47.1	40.1	32.4	50.8
1913..	25.9	28.8	41.0	52.7	58.9	66.3	70.4	71.2	60.4	49.0	41.2	31.6	49.8
1914..	34.2	35.2	47.8	54.4	62.2	64.4	73.4	71.2	58.2	52.8	40.4	22.6	51.4
1915..	24.6	37.8	49.1	55.5	58.0	64.8	69.4	73.8	59.6	51.8	37.2	30.2	51.0
1916..	19.8	33.8	44.9	52.4	55.6	63.6	66.2	70.3	61.8	50.5	34.8	26.4	48.3
1917..	26.8	34.2	38.4	47.5	58.0	63.0	74.0	74.2	64.2	53.4	43.1	38.0	51.2
1918..	35.0	33.8	43.4	53.6	57.0	70.4	73.0	67.8	67.4	52.5	39.4	33.3	52.2
1919..	33.5	35.4	45.4	53.5	58.6	63.6	72.6	71.4	60.3	48.0	37.8	21.0	50.1
1920..	28.4	36.3	43.9	48.2	56.4	63.6	74.8	71.0	61.0	49.8	39.1	32.8	50.4
1921..	30.6	35.6	45.0	49.8	60.2	67.0	71.0	71.8	58.1	52.8	36.9	30.8	50.8
1922..	18.2	30.0	40.6	49.0	57.9	72.2	74.6	71.0	63.0	52.8	36.7	23.4	49.1
1923..	34.0	29.8	42.9	51.6	58.2	65.3	73.5	73.0	64.0	51.2	41.0	32.2	51.4
1924..	26.0	41.5	43.8	51.4	65.2	66.3	72.2	70.2	61.8	50.2	37.1	23.6	50.8
1925..	34.1	41.4	45.4	54.6	62.0	67.2	76.0	70.4	62.2	51.2	37.2	35.8	53.1
1926..	32.4	41.2	49.0	56.7	56.5	70.0	74.8	70.3	56.5	51.5	39.7	27.4	52.2
1927..	26.1	37.4	43.6	49.9	56.2	68.0	73.2	71.7	59.9	50.8	42.2	27.2	50.5
1928..	29.0	37.1	45.9	48.7	63.8	66.4	76.2	70.6	63.6	51.6	40.6	30.3	51.9
1929..	16.9	23.4	45.0	49.0	60.2	65.5	72.6	74.6	61.6	54.4	37.8	34.4	49.5
1930..	15.7	39.8	47.7	56.0	58.5	63.9	75.4	75.1	63.7	48.9	38.2	31.6	51.2
1931..	33.0	38.2	44.8	53.2	64.3	66.2	75.9	73.8	62.6	52.4	36.4	24.8	52.1
1932..	26.3	32.6	44.2	53.8	59.4	70.2	69.7	71.4	65.2	52.6	42.8	29.0	51.4
1933..	33.0	29.1	42.8	52.2	54.9	67.0	74.4	73.8	58.6	55.9	42.0	38.4	51.8
Mean	27.5	35.0	45.9	52.4	59.4	66.6	73.1	68.6	61.5	51.4	39.1	29.8	50.9

NOTE: Data in this summary are from the following Weather Bureau records: Special meteorological station, 1909 to November 15, 1928; all instruments ground exposure. First order station after November 15, 1928; all instruments on roof of office building.