

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

ANNUAL
METEOROLOGICAL
SUMMARY

WITH COMPARATIVE DATA

1929

YAKIMA, WASHINGTON

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1930

SUMMARY FOR THE YEAR OF 1929, YAKIMA, WASHINGTON

Month	Temperature							Relative Humidity (per cent)			Precipitation			Sunshine		Wind			Average Number of days														
	Mean		Extremes								Total	Greatest in 24 hours		Snowfall	Number of hours	Per cent of possible	Average hourly velocity	Prevailing direction	Highest			Winds (33 miles per hour or over)	Clear	Partly cloudy	Cloudy	With precipitation (0.01 inch or more)	With snow (0.01 or more)	Thunderstorms	Dense Fog	Max. temp.		Min. temp.	
	Maximum	Minimum	Monthly	Highest	Date	Lowest	Date	5 a.m.	Noon	5 p.m.	Date				Velocity	Direction	Date	32° or below	90° or above	32° or below	Zero or below												
January . .	24	10	17	41	17	- 8	30	90	77	80	1.50	0.68	2-3	21.3	75	27	2.7	W	24	NE	18	0	3	6	22	10	22	0	10	27	0	31	5
February . .	34	13	23	51	28	-11	9	83	56	58	0.01	0.01	25	0.2	198	68	3.2	SE	22	NW	25	0	7	12	9	1	4	0	2	15	0	27	7
March.....	56	34	45	67	3	26	12	73	39	38	0.45	0.25	9-10	T	283	76	5.3	NW	35	NW	21	1	10	6	15	5	2	1	0	0	0	14	0
April	60	38	49	80	26	26	8	61	28	29	0.09	0.05	11	T	328	80	6.2	NW	32	W	14	0	10	10	10	3	4	0	0	0	0	6	0
May	73	47	60	89	21	38	3	58	26	27	0.18	0.10	8	0.0	380	81	6.5	NW	25	W	2	0	10	11	10	2	0	1	0	0	0	0	0
June.....	78	53	66	94	24	41	19	63	32	28	0.55	0.28	14-15	0.0	374	79	5.9	NW	31	W	18	0	12	8	10	8	0	1	0	0	1	0	0
July	87	58	73	106	31	50	21	54	23	21	T	T	13	0.0	472	98	5.7	NW	30	NW	6	0	27	3	1	0	0	1	0	0	9	0	0
August....	90	59	75	100	1	45	24	55	24	20	T	T	18	0.0	430	98	5.0	NW	20	NW	18	0	26	4	1	0	0	1	0	0	17	0	0
September.	75	48	62	92	14	35	21	65	32	32	0.17	0.15	25	0.0	281	75	4.2	NW	22	NW	20	0	18	6	6	2	0	0	0	0	3	0	0
October ...	68	40	54	81	15	31	30	71	32	36	0.05	0.05	26	0.0	255	76	3.6	NW	18	NW	27	0	17	9	5	1	0	0	0	0	0	2	0
November.	50	26	38	66	2	18	21	76	46	47	T	T	10	T	207	74	2.3	SE	21	NW	9	0	9	13	8	0	1	0	3	0	0	25	0
December.	42	26	34	56	1	17	5	90	72	74	1.13	0.55	12-13	5.4	129	48	2.8	NW	25	W	30	0	8	7	16	10	7	0	2	0	0	29	0
Year.....	62	38	50	106	July 31	-11	Feb. 9	70	41	41	4.13	0.68	Jan. 2-3	26.9	3409	73	4.4	NW	35	NW	Mar 21	1	157	95	113	42	40	5	17	42	30	134	12

Normal

Monthly and Annual Mean Precipitation

Year	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1906.....													
1907.....													
1908.....													
1909.....	1.84	1.13	0.18						0.74	0.32	1.76	0.93	
1910.....	0.73	0.64	0.21	0.08	0.35	0.55	0.00	0.12	0.88	0.12	1.49	0.71	5.38
1911.....	0.40	0.34	0.23	0.11	1.10	0.32	0.02	0.21	2.21	0.12	0.04	0.28	5.38
1912.....	1.82	0.55	0.21	0.63	0.27	0.98	0.22	0.50	0.17	0.47	1.04	0.36	7.22
1913.....	0.88	0.30	0.02	0.51	0.67	0.78	T	0.02	0.86	0.96	1.49	0.84	6.83
1914.....	2.09	0.53	0.03	0.69	0.90	0.21	0.17	0.00	0.75	1.51	0.71	0.81	8.40
1915.....	1.17	1.30	0.77	0.62	1.28	1.11	0.43	0.05	T	0.29	1.85	1.56	10.43
1916.....	0.71	1.60	1.17	0.44	0.13	0.63	1.35	T	T	0.05	0.40	0.74	7.22
1917.....	0.23	0.47	0.31	0.59	0.70	0.28	0.01	0.00	0.34	T	1.28	1.96	6.17
1918.....	0.64	0.73	0.24	T	0.65	0.11	0.28	0.30	0.30	1.14	0.51	0.75	5.65
1919.....	1.00	0.99	0.10	0.38	0.58	0.04	0.03	0.08	0.69	0.12	0.50	0.99	5.50
1920.....	0.94	0.04	0.02	0.53	0.39	0.33	0.25	0.44	1.18	0.55	1.35	1.82	7.84
1921.....	1.52	0.59	0.25	0.35	0.92	0.27	T	0.02	0.27	0.31	2.33	1.24	8.07
1922.....	0.23	0.18	0.74	0.03	0.13	T	0.00	0.18	0.43	0.85	0.11	1.20	4.08
1923.....	0.45	0.30	0.19	0.38	0.42	0.48	1.97	0.80	0.86	0.49	0.24	1.07	7.65
1924.....	0.59	0.57	0.02	0.04	0.04	0.04	0.18	0.59	0.50	1.03	2.08	0.42	6.10
1925.....	0.71	0.98	0.13	0.64	1.07	0.08	T	T	0.87	0.14	0.47	1.02	6.11
1926.....	0.53	1.36	0.02	0.05	0.14	0.27	T	0.29	0.26	0.40	3.11	1.19	7.62
1927.....	2.08	0.98	0.18	0.01	0.32	0.16	0.08	0.01	0.93	0.90	1.43	0.06	7.14
1928.....	1.41	0.05	0.70	1.21	0.20	0.20	0.13	0.08	0.38	0.47	0.62	1.81	7.26
1929.....	1.50	0.01	0.45	0.09	0.18	0.55	T	T	0.17	0.05	T	1.13	4.13
Means	1.29	0.99	0.38	0.47	0.63	0.59	0.32	0.17	0.51	0.61	0.85	1.34	8.15

Snow Data, 1909-1929

Year	Jan.	Feb.	Mar.	Apr.	May		Oct.	Nov.	Dec.	Season
1895.....										
1896.....										
1897.....										
1898.....										
1899.....										
1900.....										
1901.....										
1902.....										
1903.....										
1904.....										
1905.....										
1906.....										
1907.....										
1908.....										
1909-10.....	3.8	7.0							8.5	19.3
1910-11.....	2.6	3.9	T		T			5.4	3.6	15.5
1911-12.....	14.4	T	T					0.7	2.5	17.6
1912-13.....	12.3	6.1	0.2						2.1	20.7
1913-14.....	14.8	1.0	T						9.2	25.0
1914-15.....	15.5	2.5							6.4	24.4
1915-16.....	11.8	18.5	2.0	T				7.3	12.8	52.4
1916-17.....	3.8	3.8	T					0.6	12.0	20.2
1917-18.....	3.0	4.1	T					T	4.0	3.4
1918-19.....	4.3	6.8	T					T	4.2	15.3
1919-20.....	7.5	T	T	2.0				T	2.3	8.0
1920-21.....	15.1	5.5	T	T				T	9.8	30.4
1921-22.....	3.9	2.4	T		T			25.4	9.2	40.9
1922-23.....	1.4	2.6	0.5					T	10.7	15.2
1923-24.....	6.7	T	T						6.5	13.2
1924-25.....	6.9	0.4						T	4.4	3.3
1925-26.....	3.0	T			T	T			2.0	3.6
1926-27.....	10.5	4.5	T						5.4	10.3
1927-28.....	13.1	0.5	T						1.2	1.9
1928-29.....	21.3	0.2	T	T					T	14.3

ANALOGOUS DATA.

These data taken from the following Weather Bureau records: Special meteorological station, 1909 to December 15, 1928; all instruments ground exposure. First-order station after December 15, 1928; elevation of barometer 1102 feet; height of thermometers above ground 58 feet, rain gage 52 feet.

Monthly and Annual Mean Temperature

Year	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	An ^{al}
1906....	...	...	...	...	...	...	...	...	...	...	...	...	...
1907....	...	...	...	...	...	...	...	...	...	...	...	...	...
1908....	...	...	...	...	...	...	...	...	...	...	...	...	...
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	49.2	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	25.8	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	23.9	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	63.0	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
Normal Means	27.4	34.5	44.1	52.5	59.0	66.4	71.4	69.5	61.1	50.2	38.9	30.7	50.5

Frost Data 1909-1929

Last killing in Spring.

First killing in Autumn.

Year	Feb.	Mar.	Apr.	May.	...	...	...	...	...	...	...	Days*
1895....	..	..	..	..	..	..	..	..	..	..	..	...
1896....	..	..	..	..	..	..	..	..	..	..	..	...
1897....	..	..	..	..	..	..	..	..	..	..	..	...
1898....	..	..	..	..	..	..	..	..	..	..	..	...
1899....	..	..	..	..	..	..	..	..	..	..	..	...
1900....	..	..	..	..	..	..	..	..	..	..	..	...
1901....	..	..	..	..	..	..	..	..	..	..	..	...
1902....	..	..	..	..	..	..	..	..	..	..	..	...
1903....	..	..	..	..	..	..	..	..	..	..	..	...
1904....	..	..	..	..	..	..	..	..	..	..	..	...
1905....	..	..	..	..	..	..	..	..	..	..	..	...
1906....	..	..	..	..	..	..	..	..	..	..	..	...
1907....	..	..	..	..	..	..	..	..	..	..	..	...
1908....	..	..	..	..	..	..	..	..	..	..	..	...
1909....	..	..	29	..	..	..	..	..	7	..	..	192
1910....	..	..	..	15	..	..	..	..	26	..	..	194
1911....	..	..	..	..	6	..	..	..	19	..	..	166
1912....	..	..	21	..	..	..	..	..	7	..	..	200
1913....	..	..	..	28	..	..	..	..	27	..	..	182
1914....	..	..	..	20	..	..	..	..	..	6	..	200
1915....	..	31	..	..	..	..	..	..	..	6	..	220
1916....	..	..	..	..	11	..	..	..	10	..	..	152
1917....	..	..	..	29	..	..	..	..	18	..	..	172
1918....	..	..	..	..	19	..	..	..	30	..	..	164
1919....	..	..	..	12	..	..	..	29	..	..	..	170
1920....	..	..	..	9	..	..	..	..	15	..	..	189
1921....	..	..	..	26	..	..	..	12	..	..	..	139
1922....	..	..	..	13	..	..	..	..	..	3	..	204
1923....	..	..	..	..	2	..	..	..	26	..	..	177
1924....	..	..	..	26	..	..	..	..	9	..	..	166
1925....	..	29	..	..	..	..	..	..	18	..	..	203
1926....	..	..	..	..	..	..	..	24	..	..	..	173
1927....	..	..	..	19	..	..	..	..	31	..	..	195
1928....	..	..	..	8	..	..	..	..	13	..	..	188
1929....	..	..	..	9	..	..	..	..	..	4	..	209

Average, April 17.

Average, October 18.

Average length of growing season, 184 days.

*Number of growing days.

Extremes of Temperature 1909-1929

Month	High- est	Year	Day	Low- est	Year	Day
January....	60	1913*	2	-21	1909	9
February....	66	1926	27	-11	1929	9
March....	82	1911	31	13	1917*	2
April....	94	1926	28	22	1918*	4
May....	98	1928	25	28	1922*	8
June....	103	1925*	26*	32	1925	3*
July....	108	1926	11	41	1924	15
August....	102	1920*	15	36	1925	24*
September....	98	1928	1*	20	1926	24
October....	89	1919	7	12	1919	25
November....	70	1927	3	5	1911	11
December....	66	1921*	12	-24	1919	13

*In other years or on other dates also.

WBO, Fort Worth, Texas, -2-8-193C-500.