

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
STATION METEOROLOGICAL SUMMARY
MONTHLY RECORD

STATION Yakima, Washington (Municipal Airport) MONTH January YEAR 1950
Pacific STANDARD TIME

DAY	TEMPERATURE °F.					PRECIPITATION (IN.)			WIND	SUNSHINE		SKY COVER		THUNDERSTORM OR DISTANT LIGHTNING	VISIBILITY 1/4 MI. OR LESS CAUSED BY			
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	DEGREE DAYS (BASE 65°)	TOTAL (WATER EQUIVALENT)	SNOWFALL, SLEET, HAIL	SNOW, SLEET, HAIL OR ICE ON GROUND AT 4:30 P.M.		TOTAL (Hours and minutes)	PERCENT OF POSSIBLE	SUNRISE TO SUNSET (tenths)	MIDNIGHT TO MIDNIGHT (tenths)					
1	33	13	23	-6	42	T	T	T	W	6.8		8	5					
2	26	9	18	-10	47	T	T	T	E	7.3		3	3					
3	16	8	12	-16	53	.07	0.9	T	E	6.1		10	9					
4	22	-4	9	-19	56	0	0.0	1	W	6.9		10	7					
5	20	-4	8	-20	57	0	0.0	1	W	4.4		10	10					
6	27	11	19	-8	46	.39	3.7	4	W	5.3		10	10					
7	32	23	28	+1	37	T	T	5	W	3.9		10	10					
8	34	20	27	0	38	.03	0.3	4	W	5.7		10	10					
9	28	8	18	-9	47	.26	2.7	4	W	6.0		10	10		F			
10	42	20	31	+4	34	.12	1.6	6	SSW	13.8		4	5					
11	31	3	17	-10	48	0	0.0	5	WSW	5.8		5	3					
12	29	-5	12	-15	53	T	T	5	W	5.8		5	3		F, K			
13	14	-18	-2	-29	67	.63	6.7	10	ESE	9.4		10	8					
14	15	-19	-2	-29	67	T	T	11	W	6.3		3	4					
15	13	-10	2	-25	63	.15	1.6	12	W	6.0		10	9					
16	14	-14	0	-27	65	T	0.1	12	W	6.1		5	5					
17	8	-18	-5	-32	70	T	T	12	W	5.6		10	8					
18	13	5	9	-18	56	.17	1.9	12	W	4.7		10	10					
19	14	5	10	-17	55	.37	3.0	13	ESE	2.5		10	10					
20	26	11	19	-8	46	T	0.0	13	SW	4.0		10	10					
21	41	8	25	-2	40	.02	0.0	11	W	5.0		9	6		F			
22	55	31	43	+16	22	T	0.0	10	S	11.9		2	4					
23	45	14	30	+3	35	T	T	9	W	11.0		2	3					
24	19	5	12	-15	53	.08	2.0	11	E	8.3		10	9					
25	15	-6	5	-22	60	.01	0.2	11	W	5.2		7	9					
26	15	-3	6	-22	59	.11	1.2	12	W	7.0		8	9					
27	16	4	10	-18	55	.02	0.5	12	W	5.3		10	10					
28	24	-7	9	-19	56	.02	0.2	12	W	6.2		4	6					
29	14	-12	1	-28	64	T	T	12	E	5.1		10	10					
30	22	-15	4	-25	61	0	0.0	12	W	9.0		3	4					
31	5	-21	-8	-37	73	T	T	11	W	5.7		10	7					
SUM	728	42				2.45	26.6			202.1		238	226					
AVG	23.5	1.4							PREVAILING	6.5	FASTEST	DIRECTION	POSSIBLE	%	7.7	7.3		

TEMPERATURE DATA

AVERAGE MONTHLY 12.5
DEPARTURE FROM NORMAL -14.9
HIGHEST 55 ON 22
LOWEST -21 ON 31
NUMBER OF DAYS WITH—
MAX. 32° OR BELOW 25
MAX. 90° OR ABOVE 0
MIN. 32° OR BELOW 31
MIN. 0° OR BELOW 14
DEGREE DAYS (BASE 65°)—
TOTAL THIS MONTH 1625
DEPARTURE FROM NORMAL +500
SEASONAL TOTAL 3961
DEPARTURE FROM NORMAL +464

PRECIPITATION DATA

TOTAL FOR THE MONTH 2.45 IN.
DEPARTURE FROM NORMAL -1.34 IN.
GREATEST IN 24 HOURS 0.63 ON 13
SNOWFALL, SLEET, AND HAIL
TOTAL FOR THE MONTH 26.6 IN.
GREATEST IN 24 HOURS 6.7 ON 13
GREATEST DEPTH ON GROUND 13 ON 19, 20

BAROMETRIC PRESSURE

MONTHLY MEAN STATION 28.806 IN.
HIGHEST SEA-LEVEL 30.65 IN. ON 31
LOWEST SEA-LEVEL 29.32 IN. ON 10

WEATHER

NUMBER OF DAYS—
CLEAR (Scale 0-3) 5
PARTLY CLOUDY (Scale 4-7) 6
CLOUDY (Scale 8-10) 20
WITH 0.01 INCH OR MORE PRECIP. 15
WITH 0.10 INCH OR MORE PRECIP. 8
WITH 0.50 INCH OR MORE PRECIP. 1
WITH 1.00 INCH OR MORE PRECIP. 0
DATES OF—
HAIL 0
SLEET 19
GLAZE 19, 20, 21

SYMBOLS USED IN COLUMNS 18-19

A=Hail
BS=Blowing Snow
DL=Distant Lightning
D=Dust
E=Sleet
F=Fog
H=Haze
K=Smoke
L=Drizzle
N=Sand
R=Rain
S=Snow
T=Thunderstorm
ZL=Freezing Drizzle
ZR=Freezing Rain

The temperature for the month averaged the lowest on record in Yakima. The January 31 minimum of -21° tied the previous minimum temperature record for January set in 1909. New daily minimum temperature records were set on the 14th, 15th, 16th, 17th, 26th, 29th, 30th and 31st. Considerable damage to the 1950 soft fruit crop in the Yakima Valley seems likely because of the extremely cold weather. Both precipitation and snowfall amounts were the greatest on record for Yakima in the month of January.

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SPECIAL METEOROLOGICAL SUMMARIES

YAKIMA, WASHINGTON WBAP
DECEMBER 1949

(Based on only one month's record)

A. TEMPERATURE AND WIND SPEED -- RELATIVE HUMIDITY
OCCURRENCES (HOURLY OBSERVATIONS):

WIND	0-4 M.P.H.						5-14 M.P.H.						15-24 M.P.H.						25 M.P.H. AND OVER						TOTAL OBS.
	REL HUMID.	UNDER 30	30-49%	50-69%	70-79%	80-89%	90-100%	UNDER 30	30-49%	50-69%	70-79%	80-89%	90-100%	UNDER 30	30-49%	50-69%	70-79%	80-89%	90-100%						
	(°F)																								
55-59								1	2							2	1			3	9				
50-54								4	5							9	11			4	35				
44-49				1				7	12		1					17	16			3	62				
40-44		1	3					21	27		1					9	6			4	88				
35-39			1		6				37		1						1				101				
30-34				8	15	2		14	44	23	5										201				
25-29		1		2	4	13	8		9	17	58	24									136				
20-24					3	10	1		2		27	13									78				
15-19					1						4	20									28				
10-14						3	1					9	1								14				

B. WIND DIRECTION
AND SPEED OCCURRENCES:

HOURLY OBSERVATIONS OF WIND SPEED (IN MILES PER HOUR)										AV SPEED	
DIRECTION	0-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	47- OVER	TOTAL	
N	5	6	3							14	5.0
NNE	4	10	8							22	6.5
NE	4	17	8	2						31	6.4
E	7	20	8							35	5.9
ESE	7	24	17	3						48	6.4
SE	3	16	3							22	5.9
SSE	3	13	5							22	6.3
S	3	4	2							9	5.7
SSW	2	8	8	5	2					25	9.5
SW	3	7	2	20	9	3	1			45	15.2
WSW	6	14	8	6	8	4				46	11.8
W	3	32	21	6	3	2	1			68	9.3
WNW	10	76	93	15	11	5	2			232	9.4
NW	17	24	14	10	1	1				48	7.2
NNW	5	13	6	1						28	6.4
CALM	18	19								19	
TOTALS	88	303	230	70	34	15	4			744	8.6

C. HOURLY OCCURRENCES OF PRECIPITATION AMOUNTS:

INTENSITIES	FREQUENCY OF OCCURRENCE FOR EACH HOUR OF THE DAY																								INTENSITIES	
	A.M. HOUR ENDING AT												P.M. HOUR ENDING AT													
	1	2	3	4	5	6	7	8	9	10	11	NOON	1	2	3	4	5	6	7	8	9	10	11	NOON		
TRACE																										TRACE
01 IN.	1	2	1	2		1			3	5	1	1	1	2	2	1	1	1	1	1	3	2	1	3	8	01 IN.
02 TO 09 IN.	1					1						1	1							1					1	02 TO 09 IN.
10 TO 24 IN.																										10 TO 24 IN.
25 TO 49 IN.																										25 TO 49 IN.
50 TO 99 IN.																										50 TO 99 IN.
1.00 TO 1.99 IN.																										1.00 TO 1.99 IN.
2.00 IN. AND OVER																										2.00 IN. AND OVER
TOTAL	2	2	1	2	1				3	5	2	1	1	1	2	2	1	1	1	2	3	2	5	3	12	TOTAL

D. CEILING -- VISIBILITY
OCCURRENCES (HOURLY OBS.):

VISIBILITY (MILES)	CEILING (FEET)									TOT.
	0	100 200	300 400	500 600	1000 1500	2000 2500	3000 3500	5000 5500	OVER 9500	
0 TO 1/8	3									3
3/8 TO 3/8	1		1						2	4
1/2 TO 3/4										1
1 TO 2 1/2				1	4	1		2	1	9
3 TO 4					2	2				4
4 TO 7 1/2					6	13	20	25	43	107
7 TO 15						2	31	73	346	452
15 TO 30								3	146	149
30 OR MORE										
TOTAL	4		1	1	7	10	54	113	524	744

E. HOURLY OCCURRENCES OF SKY COVER, WIND,
AND RELATIVE HUMIDITY:

HOUR OF DAY	CLOUDS SCALE - 10				WIND SPEED (MPH)								RELATIVE HUMIDITY (%)										HOUR OF DAY
	0-3	4-7	8-10	0	1-3	4-7	8-12	13-18	19-24	25-38	OVER 38	0-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100			
1	11	6	14		2	12	16	1					1	5	6	15	4						
2	12	5	14		3	12	15		1					3	4	3	14	7		2			
3	13	7	11	1	5	13	9	2	1						2	5	13	9		3			
4	10	7	14		1	13	13	3	1						2	4	16	6		4			
5	11	8	12	2	4	14	9	1	1					1		6	15	7		5			
6	10	5	16		6	16	7		1						1	3	2	17	8	6			
7	12	3	16		2	14	8	1	2						2	2	3	14	10	7			
8	9	4	18		2	10	15		1						2	2	6	16	8	8			
9	8	8	15	2	1	14	11	2	1						2	2	6	16	9	9			
10	8	6	17	1	3	21	3	1	1	1					1	2	6	9	9	10			
11	8	6	17	4	3	15	4	3	1	2					2	10	6	7	5	11			
12	9	4	18	1	2	12	7	4	3	2					2	7	9	5	2	12			
13	8	7	16	1	4	11	5	4	1	5					1	12	6	7	4	13			
14	7	3	21	1	2	8	8	6	3	3					4	10	5	8	2	14			
15	8	2	21		1	7	14	5	4				1	2	12	5	7	1	3	15			
16	8	2	21	1		12	7	4	2	2					1	10	8	8	2	16			
17	8	2	21	1		3	10	6	2	2					2	5	5	11	9	17			
18	9	3	19		3	14	6	7							1	3	6	6		18			
19	9	4	18		2	15	6	7	1						1	3	6	8		19			
20	6	7	18	1	2	12	10	3	3							2	4	6	8	10	20		
21	7	9	15		2	14	11			1						2	3	3	8	12	21		
22	8	8	15		7	9	12	1	2								3	4	9	13	22		
23	10	6	15		2	12	14	2	1								1	2	3	9	14	23	
24	11	8	12	1	3	13	11	2	1								3	3	6	15	4	24	
TOTAL	220	130	394	19	69	303	230	70	34	19			1	15	72	84	117	123	236	87	TOTAL		

F. HOURLY TEMPERATURES (READ ABOUT 40 MIN. BEFORE THE HOUR):

DAY NO.	NOON											PM											DAY NO.			
	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM		MID.		
1	32	32	32	32	33	32	32	31	31	37	38	41	48	54	55	55	52	51	50	51	52	52	52	52	1	
2	48	48	47	45	47	42	39	44	28	24	26	31	34	36	38	38	38	38	35	33	31	31	29	29	30	2
3	27	28	28	28	28	28	28	24	26	31	30	30	33	38	41	44	46	46	42	40	36	34	35	32	33	3
4	30	30	30	30	29	30	29	30	29	30	30	33	34	38	41	44	46	46	42	40	36	34	35	32	33	4
5	35	34	34	32	33	30	29	30	29	30	33	36	40	48	53	51	48	43	43	40	40	37	33	31	31	5
6	30	27	28	30	31	30	30	28	31	32	32	39	42	44	41	41	40	39	34	32	30	30	30	29	30	6
7	29	29	28	27	29	30	32	34	35	37	40	42	42	42	42	41	40	39	38	32	30	29	28	27	7	
8	28	27	26	25	25	24	24	23	26	31	38	41	42	43	43	41	37	32	31	32	32	29	29	26	8	
9	24	24	23	22	24	36	38	35	35	40	42	46	43	43	40	41	37	32	33	31	35	35	34	32	9	
10	31	31	32	30	33	22	21	24	28	36	40	42	41	43	41	43	33	29	25	23	22	21	21	19	10	
11	18	18	17	17	18	18	24	24	26	25	28	31	36	36	38	39	39	39	39	39	39	39	39	39	11	
12	26	26	26	26	26	26	26	26	26	26	30	30	47	47	47	39	40	36	30	28	27	27	28	24	12	
13	22	22	21	19	20	24	25	26	27	29	31	32	33	33	33	33	33	32	32	32	33	33	33	33	13	
14	32	32	30	28	29	26	27	25	26	30	30	33	36	38	37	36	35	34	32	31	31	31	32	32	14	
15	31	31	30	30	30	30	29	29	29	29	30	31	32	33	33	34	33	31	30	29	28	28	26	26	15	
16	27	27	27	27	25	24	20	21	23	28	26	28	36	39	39	37	34	32	34	35	35	34	33	33	16	
17	33	33	33	32	30	25	28	28	29	31	38	42	43	43	47	43	39	39	35	34	31	34	32	29	17	
18	28	28	29	30	30	30	29	30	30	32	36	41	43	42	42	39	36	34	32	32	30	30	28	27	18	
19	26	26	23	23	23	20	17	12	14	17	22	25	28	25	23	22	20	20	20	20	20	20	20	20	19	
20	19	19	20	20	20	20	20	20	20	27	16	19	24	29	31	29	29	23	18	15	15	16	14	13	20	
21	13	13	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	21	
22	10	10	20	20	20	20	17	22	25	29	31	55	55	51	53	52	51	49	49	49	43	42	48	43	22	
23	40	36	34	34	33	31	32	31	32	33	34	37	47	49	46	45	43	39	40	35	31	31	32	38	23	
24	39	37	36	35	33	32	31	30	32	38	40	42	42	42	43	41	37	33	30	31	29	28	29	24	24	
25	29	29	27	27	27	25	24	24	24	29	45	44	43	46	48	46	44	45	42	39	38	34	34	35	25	
26	31	35	31	36	38	34	40	40	36	39	41	43	45	47	48	46	45	46	42	40	38	38	36	32	26	
27	35	37	37	36	39	41	46	45	43	53	52	54	53	55	58	56	53	51	50	51	51	50	49	50	27	
28	47	48	48	48	48	48	48	48	48	48	54	55	55	56	54	52	50	51	49	52	47	45	41	28	28	
29	43	42	35	33	32	34	34	45	48	49	50	49	48	47	42	40	38	38	38	35	34	32	34	30	29	29
30	39	39	39	39	26	24	25	26	26	33	37	38	41	40	40	38	35	32	35	32	25	25	25	24	30	30

G. 6-HOURLY OBSERVATIONS OF SKY COVER, PRESSURE, PSYCHROMETRIC DATA, AND WIND:

[illegible]