

# MOUNTAIN STATES WEATHER SERVICES

820 S. Summit View Drive  
Fort Collins, CO 80524-3670  
Phone (303) 484-9463



## LOCAL CLIMATOLOGICAL DATA/Monthly

STATION: MSWS OBSERVATORY, FORT COLLINS, COLO.

MONTH: APRIL YEAR: 1994

LATITUDE: 40°35'N LONGITUDE: 105°01'W

GROUND ELEVATION: 4920 FT.

FORT COLLINS, COLORADO APRIL, 1994 Vol. 19, No. 4

DAY	TEMPERATURE °F						PRECIPITATION (in.)		SNOW, ICE PELLETS OR ICE ON GROUND AT 0500M	AVERAGE SPEED (m.p.h.)	WIND (10's of Degrees)				SKY COVER SUNRISE TO SUNSET (TENTHS)	WEATHER OCCURRENCES	SKY COVER MIDN'T-MIDN'T (Tenths)	RELATIVE HUMIDITY					DAY	
	MAXIMUM	MINIMUM	AVERAGE	DEGREE DAYS (Base 65°)		TOTAL (Water equivalent)	SNOW-FALL, ICE PELLETS	PREVAILING DIRECTION			FASTEST 1-MINUTE		PEAK GUST					18	19	20	21	22		23
				HEATING	COOLING						SPEED (m.p.h.)	DIRECTION	SPEED (m.p.h.)	DIRECTION										
1	67	26	47	18	0	0	0	0	6.5	32	20	33	28	33	8	7	76	22	28	36	1			
2	52	32	42	23	0	.01	0	0	7.6	17	15	34	21	34	9	8	68	55	69	98	2			
3	68	25	47	18	0	0	0	0	6.0	36	15	18	17	18	7	5	98	43	16	28	3			
4	60	29	45	20	0	T	T	0	13.0	05	28	02	40	06	8	9	18	20	62	85	4			
5	39	22	31	34	0	T	T	0	6.1	18	14	18	16	18	9	7	89	57	53	96	5			
6	56	17	37	28	0	0	0	0	5.8	34	14	18	17	18	8	7	100	31	30	61	6			
7	62	31	47	18	0	.03	0	0	8.5	33	25	34+	34	34+	9	7	85	34	32	38	7			
8	59	34	47	18	0	0	0	0	8.3	14	17	27	25	27	5	5	49	18	16	46	8			
9	47	32	40	25	0	.64	2.6	0.5	6.3	10	17	10	22	10	10	10	50	94	99	98	9			
10	35	31	33	32	0	.16	1.7	3	8.3	12	14	14+	16	14+	10	10	96	82	84	87	10			
11	44	30	37	28	0	T	T	T	7.5	36	15	36	20	36	10	8	77	50	44	77	11			
12	67	28	48	17	0	0	0	0	8.1	32	21	32	28	32	0	1	86	17	12	56	12			
13	71	37	54	11	0	0	0	0	10.8	32	25	32	38	32	4	4	33	18	15	54	13			
14	64	34	49	16	0	0	0	0	11.6	36	28	33	40	33	8	7	63	34	38	89	14			
15	69	32	51	14	0	0	0	0	9.1	32	14	32	18	32	3	4	83	50	22	52	15			
16	77	32	55	10	0	0	0	0	6.5	14	14	18	17	18	0	0	96	22	15	63	16			
17	78	39	59	6	0	0	0	0	7.5	24	17	24	21	24	9	7	72	22	21	60	17			
18	79	41	60	5	0	T	0	0	2.8	24	20	14	25	14	8	8	82	23	31	62	18			
19	72	46	59	6	0	0	0	0	7.3	34	15	18+	18	18+	10	9	86	50	43	84	19			
20	76	40	58	7	0	0	0	0	8.1	33	17	31+	22	31+	8	7	99	31	26	74	20			
21	75	43	59	6	0	0	0	0	8.0	14	13	04	15	04	2	2	92	45	28	78	21			
22	77	43	60	5	0	0	0	0	8.1	34	18	27	29	27	6	5	97	40	26	76	22			
23	79	42	61	4	0	0	0	0	9.2	33	23	27	32	27	5	6	96	23	19	43	23			
24	78	45	62	3	0	0	0	0	9.2	33	17	36	20	36	7	8	81	20	16	45	24			
25	54	41	48	17	0	.35	0.7	0	11.1	34	20	32+	29	32+	10	9	71	91	63	71	25			
26	44	26	35	30	0	0	0	0	9.7	33	21	33	28	33	10	10	57	43	43	72	26			
27	33	23	28	37	0	.02	.1	T	10.0	14	15	13+	18	13+	10	10	88	79	70	97	27			
28	40	27	34	31	0	.20	2.2	T	6.5	14	11	12	13	12	10	10	97	71	76	96	28			
29	36	30	33	32	0	.22	.8	T	8.3	09	16	09+	21	09+	10	10	94	92	92	91	29			
30	54	30	42	23	0	0	0	T	5.2	15	12	16	15	16	9	9	91	55	41	90	30			
31																						31		
SUM	1812	988		542	0	1.63	7.4		246.0						222		209	2394	1332	1230	2103	SUM		
AVG	60.4	32.9							8.2	PREVAILING	FASTEST	DIRECTION	PEAK	DIRECTION	7.4		7.0	80	44	44	70	AVG.		
										MISC. →	33	28	33	40	33									
										DATE →	14th+		14th+											

TEMPERATURE DATA		PRECIPITATION DATA		WEATHER		SYMBOLS USED IN COLUMN 17	
AVERAGE MONTHLY	46.7	TOTAL FOR THE MONTH	1.63	NUMBER OF DAYS -		NUMBER OF DAYS -	
DEPARTURE FROM NORMAL	-.3	DEPARTURE FROM NORMAL	-.28	CLEAR (Scale 0-3)	4	1 = FOG	11
HIGHEST	79 ON 18TH + 23RD	GREATEST IN 24 HRS.	7.9 ON 9TH-10TH	PARTLY CLOUDY (Scale 4-7)	6	2 = FOG WITH VISIBILITY 1/4 MILE OR LESS	0
LOWEST	17 ON 6TH	SNOWFALL, ICE PELLETS		CLOUDY (Scale 8-10)	20	3 = THUNDER	2
NUMBER OF DAYS WITH -		TOTAL FOR THE MONTH	7.4	WITH TRACE OR MORE PRECIP.	12	4 = ICE PELLETS	0
MAX. 32° OR BELOW	0	GREATEST IN 24 HRS.	4.3 ON 9TH-10TH	WITH 0.01 INCH OR MORE PRECIP.	8	5 = HAIL	1
MAX. 90° OR ABOVE	0	GREATEST DEPTH ON GROUND	3 ON 10TH	WITH 0.10 INCH OR MORE PRECIP.	5	6 = GLAZE OR RIME	3
MIN. 32° OR BELOW	18	NOTES:		WITH 0.50 INCH OR MORE PRECIP.	1	7 = DUSTSTORM OR SANDSTORM	0
MIN. 0° OR BELOW	0	9th Maximum snow depth 2 inches from 2100 - 2400		WITH 1.00 INCH OR MORE PRECIP.	0	8 = SMOKE OR HAZE	0
HEATING DEGREE DAYS (Base 65°)						9 = BLOWING SNOW	0
TOTAL THIS MONTH	542					X = TORNADO	0
DEPARTURE FROM NORMAL	- 5*	Trace-hail					
SEASONAL TOTAL	6404						
DEPARTURE FROM NORMAL	+ 340						
COOLING DEGREE DAYS (Base 65°)							
TOTAL THIS MONTH	0						
DEPARTURE FROM NORMAL	0						
SEASONAL TOTAL	0						
DEPARTURE FROM NORMAL	0						

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MONTH: April YEAR: 1994

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GROUND ELEVATION: 4920 FT.

FORT COLLINS, COLORADO APRIL, 1994 VOL. 19, NO. 4

DAY	TEMPERATURE °F						PRECIPITATION (in.)		SNOW, ICE PELLETS OR ICE ON GROUND AT 0500M	AVERAGE SPEED (m.p.h.)	WIND (10's of Degrees)				SKY COVER SUNRISE TO SUNSET (TENTHS)	WEATHER OCCURRENCES	SKY COVER MIDN'T-MIDN'T (Tenths)	RELATIVE HUMIDITY				DAY	
	MAXI-MUM	MINI-MUM	AVER-AGE	DEGREE DAYS (Base 65°)		TOTAL (Water equivalent)	SNOW-FALL, ICE PELLETS	PREVAILING DIRECTION			FASTEST 1-MINUTE		PEAK GUST					0500 MST	1100 MST	1700 MST	2300 MST		
				HEATING	COOLING						SPEED (m.p.h.)	DIREC-TION	SPEED (m.p.h.)	DIREC-TION									
1	67	26	47	18	0	0	0	0	6.5	32	20	33	28	33	8		7	70	22	28	36	1	
2	52	32	42	23	0	.01	0	0	7.6	17	15	34	21	34	9		8	68	55	69	98	2	
3	68	25	47	18	0	0	0	0	6.0	36	15	18	17	18	7		5	98	43	16	28	3	
4	60	29	45	20	0	T	T	0	13.0	05	28	02	40	06	8	1	9	48	20	62	85	4	
5	39	22	31	34	0	T	T	0	6.1	18	14	18	16	18	9	1	7	89	57	53	96	5	
6	56	17	37	28	0	0	0	0	5.8	34	14	18	17	18	8		7	100	31	30	61	6	
7	62	31	47	18	0	.03	0	0	8.5	33	25	34+	34	34+	9		7	85	34	32	38	7	
8	59	34	47	18	0	0	0	0	8.3	14	17	27	25	27	5		5	49	18	16	46	8	
9	47	32	40	25	0	.64	2.6	0	6.3	10	17	10	22	10	10	1	10	50	94	99	98	9	
10	35	31	33	32	0	.16	1.7	3	8.3	12	14	14+	16	14+	10	1	10	96	82	84	87	10	
11	44	30	37	28	0	T	T	T	7.5	36	15	36	20	36	10	1	8	77	50	44	77	11	
12	67	28	48	17	0	0	0	0	8.1	32	21	32	28	32	0		1	86	17	12	56	12	
13	71	37	54	11	0	0	0	0	10.8	32	25	32	38	32	4		4	33	18	15	54	13	
14	64	34	49	16	0	0	0	0	11.6	36	28	33	40	33	8		7	63	34	38	89	14	
15	69	32	51	14	0	0	0	0	9.1	32	14	32	18	32	3		4	83	50	22	52	15	
16	77	32	55	10	0	0	0	0	6.5	14	14	18	17	18	0		0	96	22	15	63	16	
17	78	39	59	6	0	0	0	0	7.5	24	17	24	21	24	9		7	72	22	21	60	17	
18	79	41	60	5	0	T	0	0	7.8	24	20	14	25	14	8		8	82	23	31	62	18	
19	72	46	59	6	0	0	0	0	7.3	34	15	18+	18	18+	10		9	86	50	43	84	19	
20	76	40	58	7	0	0	0	0	8.1	33	17	34+	22	34+	8		7	99	31	26	74	20	
21	75	43	59	6	0	0	0	0	8.0	14	13	04	15	04	2		2	92	45	28	78	21	
22	77	43	60	5	0	0	0	0	8.1	34	18	27	28	27	6	1	5	97	40	26	76	22	
23	79	42	61	4	0	0	0	0	9.2	33	23	27	32	27	5	3	6	96	23	19	43	23	
24	78	45	62	3	0	0	0	0	9.2	33	17	36	20	36	7		8	81	20	16	45	24	
25	54	41	48	17	0	.35	0*	0	11.1	34	20	32+	29	32+	10	1 3 5	9	71	91	63	71	25	
26	44	26	35	30	0	0	0	0	9.7	33	21	33	28	33	10		10	57	43	43	72	26	
27	33	23	28	37	0	.02	.1	T	10.0	14	15	13+	18	13+	10	1	6	10	88	79	70	97	27
28	40	27	34	31	0	.20	2.2	T	6.5	14	11	12	13	12	10	1	6	10	97	71	76	96	28
29	36	30	33	32	0	.22	.8	T	8.3	09	16	09+	21	09+	10	1	6	10	94	92	92	91	29
30	54	30	42	23	0	0	0	T	5.2	15	12	16	15	16	9	1		9	91	55	41	90	30
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SUM	1812	988		542	0	1.63	7.4		246.0						222			205	2394	332	1230	2103	SUM
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										MISC. →	28		40										
										DATE →	33	14th+	33	14th+	33								

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HIGHEST	79 ON 18th+23rd	GREATEST IN 24 HRS.	.79 ON 9th-10th	PARTLY CLOUDY (Scale 4-7)	6	2 = FOG WITH VISIBILITY 1/4 MILE OR LESS	0
LOWEST	17 ON 6th	SNOWFALL, ICE PELLETS		CLOUDY (Scale 8-10)	20	3 = THUNDER	2
NUMBER OF DAYS WITH -		TOTAL FOR THE MONTH	7.4 IN.	WITH TRACE OR MORE PRECIP.	12	4 = ICE PELLETS	0
MAX. 32° OR BELOW	0	GREATEST IN 24 HRS.	4.3 ON 9th-10th	WITH 0.01 INCH OR MORE PRECIP.	8	5 = HAIL	1
MAX. 90° OR ABOVE	0	GREATEST DEPTH ON GROUND	3 ON 10th	WITH 0.10 INCH OR MORE PRECIP.	5	6 = GLAZE OR RIME	3
MIN. 32° OR BELOW	18	NOTES:		WITH 0.50 INCH OR MORE PRECIP.	1	7 = DUSTSTORM OR SANDSTORM	0
MIN. 0° OR BELOW	0	1/4 April 9th Maximum snow depth 2 inches from 2100-2400		WITH 1.00 INCH OR MORE PRECIP.	0	8 = SMOKE OR HAZE	0
HEATING DEGREE DAYS (Base 65°)		*Trace-hail				9 = BLOWING SNOW	0
TOTAL THIS MONTH	542					X = TORNADO	0
DEPARTURE FROM NORMAL	-5						
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COOLING DEGREE DAYS (Base 65°)	0						
TOTAL THIS MONTH	0						
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DEPARTURE FROM NORMAL	0						

RECORD OF HOURLY WEATHER OBSERVATIONS

STATION: MSWS OBSERVATORY  
Fort Collins, Colorado

DATE: APR 01 1994

TIME (MST)	Temperature (°F)	Relative Humidity (%)	Precipitation (Melted-Inches)	Snowfall (Unmelted-Inches)	Sky Cover (Scale 0-10)	Weather or Obstructions to Vision	WIND			PEAK WIND			Visibility	REMARKS	Weather and Obstruction to Vision	Time Of Beginning	Time Of Ending
							Direction (Tens of Degrees)	Speed (MPH)	Character	Peak Speed (MPH)	Associated Direction	Time Of Occurrence					
0100	32	61			0		33	07					25				
0200	30	61			0		35	06					25				
0300	30	61			0		34	07					25	CI S			
0400	28	63			0		35	06					25	CI S			
0500	27	70			2		32	05					25				
0600	28	79			5		33	05					75	26/0537			
0700	43	63			6		27	05					75				
0800	47	46			6		12	05					75				
0900	52	34			8		21	06					75				
1000	56	28			9		18	05					75				
1100	61	22			9		18	05					75				
1200	64	16			9		24	05					75	MDT CU VIRGA DRWG SW-NW			
1300	64	16			9		24	05					75	MDT CU VIRGA SW-N 67/1247			
1400	64	19			9		32	07					75	MDT CU VIRGA S-NE			
1500	63	19			9		32	07					75	MDT CU VIRGA ALQDS			
1600	61	24			10		32	12	620				75	MDT CU VIRGA ALQDS			
1700	59	28			10		34	07	617				75	RWU SW-NW VIRGA ALQDS 58/1650			
1800	58	35			10		34	11					75	RWU SW-N VIRGA ALQDS			
1900	57	36			10		33	09	617	28	33	1825	25	VIRGA ALQDS			
2000	56	38			10		32	10					25	VIRGA ALQDS			
2100	54	42			10		32	06					25	VIRGA ALQDS			
2200	52	41			10		33	06					25	VIRGA ALQDS			
2300	52	36			10		36	04					25				
2400	52	34			10		01	06					25				
SUM			0	0	171												
AVG					7.1		Pre- vailing 32	6.5									

1000  
1001  
1071  
1171  
1271  
1571  
1571  
1521

Time MST	Max Temp	Min Temp	Precip	Snow-fall	Snow on the Ground
0000-0500	34	27	0	0	0
0500	35	27	0	0	0
1100	61	26	0	0	0
1700	67	58	0	0	0
2300	59	52	0	0	0
2300-2400	52	52	0	0	0

Sunrise 0544 Sunset 1824

TIME (MST)	0455			
ATT. THERM.	72.5			
OBSRVD. BARO.	25.171			
TOTAL CORR.	-0.12			
STA. PRESS.	25.059			
BAROGRAPH	25.045			
BARO. CORR.	+0.015			

+ - LAST OCCURRENCE  
Ø - LAST OF MORE THAN ONE  
E - ESTIMATED

TEMPERATURE (°F)				Precipitation (Inches)				WIND (MPH/10's of Degrees)						SKY COVER				
24-Hour Max	24-Hour Min	Avg Temperature	Heat-ing Degree Days	Cool-ing Degree Days	Total Precip-itation	Total Snow-fall	Snow/ice on Grnd 0500	Prvlg Wind Direc	Avg Hourly Wind Speed	Highest 1-Min Speed	Assoc-iated Direc	Time	Peak Gust	Assoc-iated Direc	Time	Avg Sunrise to Sunset	Avg 0000-2400	Weather or Obstructions to Vision
67	26	47	18	0	0	0	0	32	6.5	20	33	18/10	28	33	1825	8	7	

Additional notes, remarks or comments:  
 TIME 0455 SEA LEVEL PRES. 1015.5 ALTIMETER SETTING 30.02 ANEROID BARO. 25.055 CORR. +.005  
 1810 WND 3320623 MPH  
 1825 WND 3316628 MPH

(WIND DIRECTION ESTIMATED)  
BWW: B0245 E 2200 AT OTHER TIMES)

