

# 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: JANUARY YEAR: 1993

LATITUDE: 40°35'N LONGITUDE: 105°01'W

GROUND ELEVATION: 4920 FT.

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					0500 MST	1100 MST	1700 MST	2300 MST		
				HEATING	COOLING						SPEED (m.p.h.)	DIRECTION	SPEED (m.p.h.)	DIRECTION									
1	29	7	18	47	0	0	0	3	4.8	12	8	07	12	07	91		6	92	68	79	91	1	
2	50	16	33	32	0	0	0	3	5.9	24	11	03	13	03	61		6	86	47	79	95	2	
3	25	7	16	49	0	.04	1.6	3	6.6	17	14	17	17	17	10		8	86	86	91	84	3	
4	19	-3	8	57	0	0	0	4	5.1	12	10	12+	12	12+	0		0	89	60	92	82	4	
5	27	-1	13	52	0	0	0	3	4.8	36	10	14+	12	14+	1		1	90	52	60	83	5	
6	29	2	16	49	0	0	0	3	4.1	03	8	17+	9	17+	9		8	91	47	46	93	6	
7	24	9	17	48	0	.04	.8	3	4.8	12	9	12	10	12	10		10	95	78	90	90	7	
8	20	11	16	49	0	.16	3.9	4	5.6	05	11	05	14	05	10	2	10	85	72	90	89	8	
9	11	-3	4	61	0	.05	.7	8	4.3	12	7	12+	8	12+	91		10	90	60	86	90	9	
10	11	-3	4	61	0	T	T	8	2.4	12	7	14	8	14	91		9	89	59	83	89	10	
11	13	-10	2	63	0	0	0	8	4.2	34	11	36+	13	36+	91		7	88	60	77	87	11	
12	10	-8	1	64	0	T	T	7	5.9	18	13	18+	16	18+	1		4	86	64	77	86	12	
13	18	-12	3	62	0	0	0	7	3.7	18	8	16	9	16	9		7	86	70	62	86	13	
14	33	4	19	46	0	0	0	7	3.3	34	8	27+	9	27+	71		6	93	47	71	94	14	
15	47	11	29	36	0	0	0	6	4.4	34	10	24	12	24	7		5	95	40	70	85	15	
16	38	11	25	40	0	0	0	5	4.5	36	10	14+	12	14+	6		5	90	42	70	97	16	
17	28	12	20	45	0	0	0	5	4.3	36	8	34	9	34	91		9	97	82	87	100	17	
18	32	13	23	42	0	T	T	5	4.2	12	8	16+	9	16+	6	2	8	100	66	81	94	18	
19	20	14	17	48	0	.07	1.8	5	4.8	36	8	34+	9	34+	10	2	10	94	94	89	88	19	
20	39	4	22	43	0	0	0	6	5.2	36	10	27	12	27	2	2	5	90	70	41	70	20	
21	50	26	38	27	0	0	0	5	10.3	27	33	32	46	32	3		2	60	30	22	83	21	
22	56	19	38	27	0	T	T	5	10.8	36	32	27	46	27	7		7	87	62	60	38	22	
23	36	18	27	38	0	0	0	4	11.2	36	26	32	33	32	6		3	34	52	49	91	23	
24	33	10	22	43	0	0	0	3	3.5	36	9	17+	10	17+	8		4	96	80	52	90	24	
25	42	11	27	38	0	0	0	3	4.3	03	8	06	9	06	9		5	95	42	63	92	25	
26	44	19	32	33	0	0	0	3	4.3	16	8	03	9	03	4		2	89	51	66	98	26	
27	48	17	33	32	0	0	0	3	4.5	36	8	24+	9	24+	0		0	98	33	56	89	27	
28	38	19	29	36	0	T	T	3	7.4	14	17	36	20	36	8		6	75	63	96	99	28	
29	32	24	25	37	0	T	T	3	5.1	33	10	33+	12	33+	91		7	97	80	89	96	29	
30	45	14	30	35	0	0	0	3	3.3	34	10	34+	12	34+	0		0	86	42	77	87	30	
31	46	18	32	33	0	0	0	2	4.3	34	6	34+	7	34+	0		1	84	35	71	96	31	
SUM	993	276	-	1373	0	.36	8.8	-	161.9	-	-	-	-	-	193		168	273	182	2212	2732	SUM	
AVG	32.0	8.9	-	-	-	-	-	-	5.2	PRE-VAILING	33	32	46	27	6.2		5.4	88	59	71	88	AVG.	
MISC.	→										36	21ST	46	22ND+	-	-	-	-	-	-	-	-	-
DATE	→										36	21ST	46	22ND+	-	-	-	-	-	-	-	-	-

TEMPERATURE DATA		PRECIPITATION DATA		WEATHER		SYMBOLS USED IN COLUMN 17	
AVERAGE MONTHLY	20.5	TOTAL FOR THE MONTH	.36	NUMBER OF DAYS -	8	NUMBER OF DAYS -	8
DEPARTURE FROM NORMAL	- 6.4	DEPARTURE FROM NORMAL	-.07	CLEAR (Scale 0-3)	8	1 = FOG	8
HIGHEST	56	GREATEST IN 24 HRS.	.21	PARTLY CLOUDY (Scale 4-7)	8	2 = FOG WITH VISIBILITY 1/4 MILE OR LESS	4
LOWEST	-12	ON	8TH-9TH	CLOUDY (Scale 8-10)	15	3 = THUNDER	0
NUMBER OF DAYS WITH -	15	SNOWFALL, ICE PELLETS	8.8	WITH TRACE OR MORE PRECIP.	11	4 = ICE PELLETS	0
MAX. 32° OR BELOW	15	TOTAL FOR THE MONTH	8.8	WITH 0.01 INCH OR MORE PRECIP.	5	5 = HAIL	0
MAX. 90° OR ABOVE	0	GREATEST IN 24 HRS.	4.6	WITH 0.10 INCH OR MORE PRECIP.	1	6 = GLAZE OR RIME	0
MIN. 32° OR BELOW	0	ON	8TH-9TH	WITH 0.50 INCH OR MORE PRECIP.	0	7 = DUSTSTORM OR SANDSTORM	0
MIN. 0° OR BELOW	31	GREATEST DEPTH ON GROUND	8	WITH 1.00 INCH OR MORE PRECIP.	0	8 = SMOKE OR HAZE	0
MIN. 0° OR BELOW	7	NOTES:				9 = BLOWING SNOW	0
HEATING DEGREE DAYS (Base 65°)	1373					X = TORNADO	0
TOTAL THIS MONTH	+ 224						
DEPARTURE FROM NORMAL	4365						
SEASONAL TOTAL	+ 639						
DEPARTURE FROM NORMAL	0						
COOLING DEGREE DAYS (Base 65°)	0						
TOTAL THIS MONTH	0						
DEPARTURE FROM NORMAL	0						
SEASONAL TOTAL	0						
DEPARTURE FROM NORMAL	0						

# 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: JANUARY YEAR: 1993

LATITUDE: 40°35'N LONGITUDE: 105°01'W

GROUND ELEVATION: 4920 FT.

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)	SNOWFALL, ICE PELLETS	PREVAILING DIRECTION			FASTEST 1-MINUTE		PEAK GUST					0500 MST	1100 MST	1700 MST	2300 MST		
				HEATING	COOLING						SPEED (m.p.h.)	DIRECTION	SPEED (m.p.h.)	DIRECTION									
1	29	7	18	47	0	0	0	3	4.8	12	8	07	12	07	9	1	6	92	68	79	91	1	
2	50	16	33	32	0	0	0	3	5.9	24	11	03	13	03	6	1	6	86	42	79	95	2	
3	25	7	16	49	0	.04	1.6	3	6.6	17	14	17	17	17	10		8	96	86	91	84	3	
4	19	-3	8	57	0	0	0	4	5.1	12	10	12+	12	12+	0		0	89	60	82	82	4	
5	27	-1	13	52	0	0	0	3	4.8	36	10	14+	12	14+	1		1	90	52	60	83	5	
6	29	2	16	49	0	0	0	3	4.1	03	8	17+	9	17+	9		8	91	47	46	93	6	
7	24	9	17	48	0	.04	.8	3	4.8	12	9	12	10	12	10		10	95	78	90	90	7	
8	20	11	16	49	0	.16	3.9	4	5.6	05	11	05	14	05	10	2	10	85	72	90	89	8	
9	11	-3	4	61	0	.05	.7	8	4.3	12	7	12+	8	12+	9	1	10	90	60	86	90	9	
10	11	-3	4	61	0	T	T	8	2.4	12	7	14	8	14	9	1	9	89	59	83	89	10	
11	13	-10	2	63	0	0	0	8	4.2	34	11	36+	13	36+	9	1	7	88	60	77	87	11	
12	10	-8	1	64	0	T	T	7	5.9	18	13	18+	16	18+	1		4	86	64	77	86	12	
13	18	-12	3	62	0	0	0	7	3.7	18	8	16	9	16	9		7	86	70	62	86	13	
14	33	4	19	46	0	0	0	7	3.3	34	8	27+	9	27+	7	1	6	93	47	71	94	14	
15	47	11	29	36	0	0	0	6	4.4	34	10	24	12	24	7		5	95	40	70	85	15	
16	38	11	25	40	0	0	0	5	4.5	36	10	14+	12	14+	6		5	90	42	70	97	16	
17	28	12	20	45	0	0	0	5	4.3	36	8	34	9	34	9	1	9	97	82	87	100	17	
18	32	13	23	42	0	T	T	5	4.2	12	8	16+	9	16+	6	2	8	100	66	81	94	18	
19	20	14	17	48	0	.07	1.8	5	4.8	36	8	34+	9	34+	10	2	10	94	94	89	88	19	
20	39	4	22	43	0	0	0	6	5.2	36	10	27	12	27	2	2	5	90	70	41	70	20	
21	50	26	38	27	0	0	0	5	10.3	27	33	32	46	32	3		2	60	30	22	83	21	
22	56	19	38	27	0	T	T	5	10.8	36	32	27	46	27	7		4	87	62	60	38	22	
23	36	18	27	38	0	0	0	4	11.2	36	26	32	33	32	6		3	34	52	49	91	23	
24	33	10	22	43	0	0	0	3	3.5	36	9	17+	10	17+	8		4	96	80	52	90	24	
25	42	11	27	38	0	0	0	3	4.3	03	8	06	9	06	9		5	95	42	63	92	25	
26	44	19	32	33	0	0	0	3	4.3	16	8	03	9	03	4		2	89	51	66	98	26	
27	48	17	33	32	0	0	0	3	4.5	36	8	24+	9	24+	0		0	98	33	56	89	27	
28	38	19	29	36	0	T	T	3	7.4	14	17	36	20	36	8		6	75	63	96	99	28	
29	32	24	25	37	0	T	T	3	5.1	33	10	33+	12	33+	9	1	7	97	80	89	96	29	
30	45	14	30	35	0	0	0	3	3.3	34	10	34+	12	34+	0		0	96	42	77	87	30	
31	46	18	32	33	0	0	0	2	4.3	34	6	34+	7	34+	0		1	84	35	71	96	31	
SUM	993	276	—	1373	0	.36	8.8	—	161.9	—	—	—	—	—	193	—	168	2733	1829	2212	2732	SUM	
AVG	32.0	8.9	—	—	—	—	—	—	5.2	PREVAILING 36	FASTEST 33	DIRECTION 32	PEAK 46	DIRECTION 27	6.2	—	5.4	88	59	71	88	AVG.	
									MISC. →														
									DATE →														

FORT COLLINS, COLORADO, JANUARY, 1993, VOL. 18, NO. 1

TEMPERATURE DATA		PRECIPITATION DATA		WEATHER		SYMBOLS USED IN COLUMN 17	
AVERAGE MONTHLY	20.5	TOTAL FOR THE MONTH	.36 IN.	NUMBER OF DAYS —		NUMBER OF DAYS —	
DEPARTURE FROM NORMAL	- 6.4	DEPARTURE FROM NORMAL	- .07 IN.	CLEAR (Scale 0-3)	8	1 = FOG	8
HIGHEST	56 ON 22nd	GREATEST IN 24 HRS.	.21 ON 8th-9th	PARTLY CLOUDY (Scale 4-7)	8	2 = FOG WITH VISIBILITY 1/4 MILE OR LESS	4
LOWEST	-12 ON 13th	SNOWFALL, ICE PELLETS		CLOUDY (Scale 8-10)	15	3 = THUNDER	0
NUMBER OF DAYS WITH —		TOTAL FOR THE MONTH	8.8 IN.	WITH TRACE OR MORE PRECIP.	11	4 = ICE PELLETS	0
MAX. 32° OR BELOW	15	GREATEST IN 24 HRS.	4.6 ON 8th-9th	WITH 0.01 INCH OR MORE PRECIP.	5	5 = HAIL	0
MAX. 90° OR ABOVE	0	GREATEST DEPTH ON GROUND	8 ON 11th+	WITH 0.10 INCH OR MORE PRECIP.	1	6 = GLAZE OR RIME	0
MIN. 32° OR BELOW	31	NOTES:		WITH 0.50 INCH OR MORE PRECIP.	0	7 = DUSTSTORM OR SANDSTORM	0
MIN. 0° OR BELOW	7			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	1373					X = TORNADO	0
DEPARTURE FROM NORMAL	+ 224						
SEASONAL TOTAL	4365						
DEPARTURE FROM NORMAL	+ 639						
COOLING DEGREE DAYS (Base 65°)							
TOTAL THIS MONTH	0						
DEPARTURE FROM NORMAL	0						
SEASONAL TOTAL	0						
DEPARTURE FROM NORMAL	0						



# RECORD OF HOURLY WEATHER OBSERVATIONS

STATION: **MSWS OBSERVATORY  
Fort Collins, Colorado**  
DATE: **JAN 01 1989**

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)	Peak Speed (MPH)	Associated Direction	Time Of Occurrence					
0100	12	90			2		00	00				15		F	2120	0007
0200	10	90			2		02	05				15				
0300	8	90			2		03	05				15				
0400	8	90			2		23	05				15	7/0301			
0500	9	92			2		03	05				15				
0600	7	92			2		28	05				15				
0700	8	92			4		17	03				15				
0800	8	92			7		33	06				15				
0900	12	92			8		27	05				25				
1000	17	85			8		32	05				25				
1100	21	68			9		01	05				25	SCSL ACSL SW-NW			
1200	24	61			10		07	05				25	SCSC ACSL SW-NW			
1300	26	58			10		12	08				30	SCSC ACSL SW-NW			
1400	28	61			10		15	06				30	SCSL ACSL SW-NW			
1500	28	61			10		12	06				30	SCSL SW-NW ACSL W			
1600	26	65			10		12	05				30	29/144/ SCSEA ACSL SW-NW			
1700	23	79			7		24	02				25	ACSL SW-NW			
1800	22	85			7		24	05				25				
1900	21	87			7		29	06				20				
2000	20	87			7		29	03				15				
2100	19	91			7		30	05				15				
2200	19	91			7		12	05				10				
2300	18	91			7	F	08	05				6				
2400	18	91			7	F	12	04				6				
SUM	—	—	0	0	154	—	—	114	—	—	—	—				
AVG	—	—	—	—	6.4	—	Pre- vailing 12	48	—	—	—	—				

1001  
 1001  
 1036  
 1546  
 1547  
 1547  
 1001  
 1001

Time MST	Max Temp	Min Temp	Precip	Snow-fall	Snow on the Ground
0000-0500	13	7	0	0	3
0500	13	7	0	0	3
1100	21	7	0	0	3
1700	29	21	0	0	3
2300	23	18	0	0	3
2300-2400	18	18	0	0	3

Sunrise 0724 Sunset 1644

TIME (MST)	0455
ATT. THERM.	63.0
OBSRVD. BARO.	25.205
TOTAL CORR.	-0.078
STA. PRESS.	25.115
BAROGRAPH	25.110
BARO. CORR.	-0.065

+ - 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	Heating Degree Days	Cooling Degree Days	Total Precipitation	Total Snow-fall	Snow/ice on Grnd 0500	Pvlg Wind Direc	Avg Hourly Wind Speed	Highest 1-Min Speed	Associated Direc	Time	Peak Gust	Associated Direc	Time	Avg Sunrise to Sunset	Avg 0000-2400	Weather or Obstructions to Vision
29	7	18	47	0	0	0	3	12	48	8	07	1200	12	07	1200	9	6	1

Additional notes, remarks or comments:  
 TIME 0455 SEA LEVEL PRES. 1025.1 ALTIMETER SETTING 30.09 ANEROID BARO. 25.220 CORR. -105

(WIND DIRECTION ESTIMATED)  
 BWW: B 0245 0200 AT OTHER TIMES)

RECORD OF HOURLY WEATHER OBSERVATIONS

STATION: MSWS OBSERVATORY  
Fort Collins, Colorado

DATE: JAN 02 1999

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)	Peak Speed (MPH)	Associated Direction	Time Of Occurrence					
0100	17	92			5	F	07	07				6	16/0055	F CONT 0701		
0200	18	92			5	F	07	07				6				
0300	22	90			5	F	07	06				6				
0400	22	87			5	F	36	05				6				
0500	21	86			5	F	34	06				6				
0600	20	86			5	F	03	07				6				
0700	19	89			8	F	07	06				6				
0800	19	88			8		33	05				35				
0900	22	75			6		12	05				45	CLDS OASCR6 MTNS SW-NW			
1000	31	54			6		12	06				45	CLDS OASCR6 MTNS SW-NW			
1100	37	42			5		06	06				60	CLDS OMTNS SW-NW			
1200	43	40			2		14	06				60	CLDS OMTNS SW-NW			
1300	44	35			2		03	09				60	Sc AC OMTNS SW-NW 50/1229			
1400	42	42			6		14	08				60				
1500	40	55			7		21	07				40				
1600	39	57			9		24	05				40				
1700	33	79			9		24	05				25				
1800	29	85			10		24	06				25				
1900	27	87			10		27	06				25				
2000	27	93			5		34	06				25				
2100	27	94			5		34	04				25				
2200	27	95			5		36	03				25				
2300	26	95			5		09	06				25				
2400	25	95			5		36	05				25				
SUM	—	—	0	0	144	—	—	142	—	—	—	—				
AVG	—	—	—	—	6.0	—	—	5.9	—	—	—	—				

1001

1601

1571

1571

1571

1571

1001

1031

Time MST	Max Temp	Min Temp	Precip	Snowfall	Snow on the Ground
0000-0500	22	16	0	0	3
0500	22	16	0	0	3
1100	37	19	0	0	3
1700	50	23	0	0	3
2300	33	26	0	0	3
2300-2400	26	25	0	0	3

Sunrise 0724 Sunset 1645

TIME (MST)	0455
ATT. THERM.	02.5
OBSRVD. BARO.	24.916
TOTAL CORR.	-0.077
STA. PRESS.	24.839
BAROGRAPH	24.670
BARO. CORR.	-0.445

+ - 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	Heating Degree Days	Cooling Degree Days	Total Precipitation	Total Snowfall	Snow/ice on Grnd 0500	Prvlg Wind Direc	Avg Hourly Wind Speed	Highest 1-Min Speed	Associated Direc	Time	Peak Gust	Associated Direc	Time	Avg Sunrise to Sunset	Avg 0000-2400	Weather or Obstructions to Vision
50	16	33	32	0	0	0	3	24	5.9	11	03	1246	13	03	1246	6	6	1

Additional notes, remarks or comments:  
TIME 0455 SEA LEVEL PRES. 1011.4 ALTIMETER SETTING 29.75 ANEROID BARO. 24.860 CORR. -0.35

(WIND DIRECTION ESTIMATED)  
BWW: B 0315 E 2200 AT OTHER TIMES)