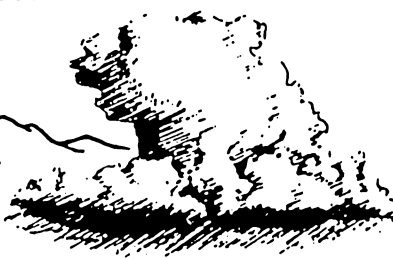


MOUNTAIN STATES WEATHER SERVICES

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: JUNE YEAR: 1999

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	75	42	59	6	0	T	0	0	4.5	14	12	32	15	32	4	3	4	81	26	23	86	1	
2	81	47	64	1	0	T	0	0	6.3	18	26	18	46	15	7	3	6	91	36	16	26	2	
3	83	48	66	0	1	0	0	0	4.7	34	12	18+	14	18+	2		2	91	35	13	63	3	
4	84	47	66	0	1	0	0	0	5.1	12	20	32	30	32	3		2	81	28	16	59	4	
5	66	43	55	10	0	-05	0	0	7.1	36	30	34	37	34	9	3	7	69	49	67	93	5	
6	76	42	59	6	0	0	0	0	4.4	14	20	18	26	18	8		7	47	32	26	73	6	
7	86	46	66	0	1	0	0	0	5.5	18	15	18+	17	18+	1		2	94	25	15	55	7	
8	91	48	70	0	5	0	0	0	5.0	18	13	18	16	18	1		1	81	16	11	45	8	
9	75	52	64	1	0	.35	0	0	7.8	34	18	36	28	36	5	3	6	71	43	47	96	9	
10	68	50	59	6	0	.39	0*	0	5.4	15	20	09	24	09	10	35	10	90	57	57	70	10	
11	74	43	59	6	0	.12	0	0	4.2	18	16	09	23	09	3	3	4	94	41	48	91	11	
12	72	49	61	4	0	T	0	0	4.6	34	18	09	24	09	7	3	6	93	52	42	88	12	
13	88	47	58	7	0	0	0	0	4.9	14	13	04	17	04	8		8	85	50	45	80	13	
14	71	51	61	4	0	.02	0	0	6.0	03	15	25	21	25	9	3	9	91	59	40	85	14	
15	66	49	58	7	0	.20	0	0	2.9	12	12	09	14	09	10		10	93	23	67	91	15	
16	59	50	55	10	0	T	0	0	4.8	14	10	14+	12	14+	10	1	10	89	75	61	83	16	
17	72	49	61	4	0	.86	0*	0	3.3	14	20	24	24	24	9	1	3	92	58	80	91	17	
18	80	49	65	0	0	T	0	0	3.5	18	10	18	13	18	6	3	5	91	40	28	76	18	
19	84	53	69	0	4	0	0	0	4.1	21	16	24	23	24	6		7	88	32	34	56	19	
20	83	53	68	0	3	0	0	0	4.0	34	14	34	17	34	5		5	97	39	35	47	20	
21	86	52	69	0	4	.15	0	0	5.2	33	13	33	22	05	8	3	6	90	31	84	20	21	
22	87	53	70	0	5	.02	0	0	6.1	32	20	32	25	32	6	3	4	93	32	17	67	22	
23	85	54	70	0	5	0	0	0	4.9	14	10	10	13	10	2		2	92	26	21	69	23	
24	89	55	72	0	7	0	0	0	4.6	14	10	14+	14	14+	2		4	63	29	18	57	24	
25	91	58	75	0	10	0	0	0	4.5	33	13	32+	18	32+	4		5	81	45	32	85	25	
26	84	57	71	0	6	0	0	0	6.4	14	15	07	22	07	1		2	66	29	38	78	26	
27	81	60	71	0	6	0	0	0	5.8	14	14	36	21	36	8		8	80	69	45	19	27	
28	75	49	62	3	0	0	0	0	8.1	21	20	34	28	34	2		3	87	41	36	54	28	
29	85	49	67	0	2	0	0	0	5.1	21	19	05	23	05	6		5	91	34	20	54	29	
30	82	55	69	0	4	0	0	0	4.8	21	20	30	31	30	8		7	89	31	46	84	30	
31																							31
SUM	2359	1500	—	75	64	2.16	0*	—	153.6	—	—	—	—	—	170	—	166	2531	1228	1155	2101	SUM	
AVG	78.6	50.0	—	—	—	—	—	—	5.1	PRE-VAILING	FASTEST	DIRECTION	PEAK	DIRECTION	5.7	—	5.5	84	41	39	70	AVG.	
										14	30	34	46	15	—	—	—	—	—	—	—	—	
											5TH		2ND		—	—	—	—	—	—	—		

TEMPERATURE DATA		PRECIPITATION DATA		WEATHER		SYMBOLS USED IN COLUMN 17	
AVERAGE MONTHLY	64.3	TOTAL FOR THE MONTH	2.16	NUMBER OF DAYS —	9	NUMBER OF DAYS —	2
DEPARTURE FROM NORMAL	- 1.1	DEPARTURE FROM NORMAL	+ .23	CLEAR (Scale 0-3)	10	1 = FOG	0
HIGHEST	91 ON 8TH+25TH	GREATEST IN 24 HRS.	.86 ON 17TH	PARTLY CLOUDY (Scale 4-7)	11	2 = FOG WITH VISIBILITY 1/4 MILE OR LESS	0
LOWEST	42 ON 1ST+6TH	SNOWFALL, ICE PELLETS	0*	CLOUDY (Scale 8-10)	14	3 = THUNDER	12
NUMBER OF DAYS WITH —		TOTAL FOR THE MONTH	0*	WITH TRACE OR MORE PRECIP.	9	4 = ICE PELLETS	0
MAX. 32° OR BELOW	0	GREATEST IN 24 HRS.	0* ON 10TH+17TH	WITH 0.01 INCH OR MORE PRECIP.	6	5 = HAIL	2
MAX. 90° OR ABOVE	2	GREATEST DEPTH ON GROUND	0 ON —	WITH 0.10 INCH OR MORE PRECIP.	1	6 = GLAZE OR RIME	0
MIN. 32° OR BELOW	0	NOTES: *0 - trace		WITH 0.50 INCH OR MORE PRECIP.	0	7 = DUSTSTORM OR SANDSTORM	0
MIN. 0° OR BELOW	0			WITH 1.00 INCH OR MORE PRECIP.	0	8 = SMOKE OR HAZE	0
HEATING DEGREE DAYS (Base 65°)	75	10TH HAIL 1640 - 1641 MST MAXIMUM DIAMETER				9 = BLOWING SNOW	0
TOTAL THIS MONTH	+ 2	< 1/4 INCH				X = TORNADO	0
DEPARTURE FROM NORMAL	- 411	17TH HAIL 1547 - 1552 MST MAXIMUM DIAMETER					
SEASONAL TOTAL	64	1/4 INCH					
DEPARTURE FROM NORMAL	- 23						
COOLING DEGREE DAYS (Base 65°)	64						
TOTAL THIS MONTH	- 30						
DEPARTURE FROM NORMAL	- 30						
SEASONAL TOTAL							
DEPARTURE FROM NORMAL							

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MOUNTAIN STATES WEATHER SERVICES

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LOCAL CLIMATOLOGICAL DATA/Monthly

STATION: MSWS OBSERVATORY, FORT COLLINS, COLO.
MONTH: June YEAR: 1999
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	75	42	59	6	0	T	0	0	4.5	14	12	32	15	32	4	3	4	81	26	23	86	1		
2	81	47	64	1	0	T	0	0	6.3	18	26	18	46	15	7	3	6	91	36	16	36	2		
3	83	48	66	0	1	0	0	0	4.7	34	12	18+	14	18+	2		2	91	35	13	63	3		
4	84	47	66	0	1	0	0	0	5.1	12	20	32	30	32	3		2	81	28	16	59	4		
5	66	43	55	10	0	0	0	0	7.1	36	30	34	37	34	9	3	7	69	49	67	93	5		
6	76	42	59	6	0	0	0	0	4.4	14	20	18	26	18	8		7	47	32	26	73	6		
7	86	46	66	0	1	0	0	0	5.5	18	15	18+	17	18+	1		2	94	25	15	55	7		
8	91	48	70	0	5	0	0	0	5.0	18	13	18	16	18	1		1	81	16	11	45	8		
9	75	52	64	1	0	0	0	0	7.8	34	18	36	28	36	5	3	6	71	43	47	96	9		
10	68	50	59	6	0	0	0	0	5.4	15	20	09	24	09	10	3 5	10	90	51	84	70	10		
11	74	43	59	6	0	0	0	0	4.2	18	16	09	23	09	3	3	4	94	41	48	91	11		
12	72	49	61	4	0	T	0	0	4.6	34	18	09	24	09	7	3	6	93	52	42	88	12		
13	68	47	58	7	0	0	0	0	4.9	14	13	04	17	04	8		8	85	50	45	80	13		
14	71	51	61	4	0	0	0	0	6.0	03	15	25	21	25	9	3	9	91	59	40	85	14		
15	66	49	58	7	0	0	0	0	2.9	12	12	09	14	09	10		10	93	73	67	91	15		
16	59	50	55	10	0	T	0	0	4.8	14	10	14+	12	14+	10	1	10	89	75	61	83	16		
17	72	49	61	4	0	0	0	0	3.3	14	20	24	24	24	9	1 3 5	9	92	58	80	91	17		
18	80	49	65	0	0	T	0	0	3.5	18	10	18	13	18	6	3	5	91	40	28	76	18		
19	84	53	69	0	4	0	0	0	4.1	21	16	24	23	24	6		7	88	33	34	56	19		
20	83	53	68	0	3	0	0	0	4.0	34	14	34	17	34	5		5	87	39	35	47	20		
21	86	52	69	0	4	0	0	0	5.2	33	13	33	22	05	8	3	6	90	31	84	70	21		
22	87	53	70	0	5	0	0	0	6.1	32	20	32	25	32	6	3	4	93	32	17	67	22		
23	85	54	70	0	5	0	0	0	4.9	14	10	10	13	10	2		2	92	26	21	69	23		
24	89	55	72	0	7	0	0	0	4.6	14	10	14+	14	14+	2		4	63	29	18	57	24		
25	91	58	75	0	10	0	0	0	4.5	33	13	32+	18	32+	4		5	81	45	32	85	25		
26	84	57	71	0	6	0	0	0	6.4	14	15	07	22	07	1		2	66	29	38	78	26		
27	81	60	71	0	6	0	0	0	5.8	14	14	36	21	36	8		8	80	69	45	19	27		
28	75	49	62	3	0	0	0	0	8.1	21	20	34	28	34	2		3	87	41	36	54	28		
29	85	49	67	0	2	0	0	0	5.1	21	19	05	23	05	6		5	91	34	20	54	29		
30	82	55	69	0	4	0	0	0	4.8	21	20	30	31	30	8		7	89	31	46	84	30		
31																							31	
SUM	2359	1500	—	75	64	2.16	0*	—	153.6	—	—	—	—	—	170	—	166	231	128	115	210	101	SUM	
AVG	78.6	50.0	—	—	—	—	—	—	5.1	PREVAILING	FASTEST	DIRECTION	PEAK	DIRECTION	5.7	—	5.5	84	41	39	70	70	AVG.	
										MISC. →	14	30	34	46	15									
										DATE →	5TH		2ND											

TEMPERATURE DATA		PRECIPITATION DATA		WEATHER		SYMBOLS USED IN COLUMN 17	
AVERAGE MONTHLY	64.3	TOTAL FOR THE MONTH	2.16 IN.	NUMBER OF DAYS —		NUMBER OF DAYS —	
DEPARTURE FROM NORMAL	- 1.1	DEPARTURE FROM NORMAL	+ .23 IN.	CLEAR (Scale 0-3)	9	1 - FOG	2
HIGHEST	91 ON 8TH+25TH	GREATEST IN 24 HRS.	.86 ON 17TH	PARTLY CLOUDY (Scale 4-7)	10	2 - FOG WITH VISIBILITY 1/4 MILE OR LESS	0
LOWEST	42 ON 1ST+6TH	SNOWFALL, ICE PELLETS	0*	CLOUDY (Scale 8-10)	11	3 - THUNDER	12
NUMBER OF DAYS WITH —		TOTAL FOR THE MONTH	0* IN.	WITH TRACE OR MORE PRECIP.	14	4 - ICE PELLETS	0
MAX. 32° OR BELOW	0	GREATEST IN 24 HRS.	0* ON 10+17TH	WITH 0.01 INCH OR MORE PRECIP.	9	5 - HAIL	2
MAX. 90° OR ABOVE	2	GREATEST DEPTH ON GROUND	0 ON —	WITH 0.10 INCH OR MORE PRECIP.	6	6 - GLAZE OR RIME	0
MIN. 32° OR BELOW	0	NOTES: 0* - Trace		WITH 0.50 INCH OR MORE PRECIP.	1	7 - DUSTSTORM OR SANDSTORM	0
MIN. 0° OR BELOW	0			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	75	10TH - Hail 1640 - 1641 MST maximum diameter < 1/4 inch				10 - TORNADO	0
DEPARTURE FROM NORMAL	+ 2						
SEASONAL TOTAL	6010	17TH - Hail 1547 - 1552 MST maximum diameter 1/4 inch					
DEPARTURE FROM NORMAL	- 411						
COOLING DEGREE DAYS (Base 65°)							
TOTAL THIS MONTH	64						
DEPARTURE FROM NORMAL	- 23						
SEASONAL TOTAL	64						
DEPARTURE FROM NORMAL	- 30						



RECORD OF HOURLY WEATHER OBSERVATIONS

STATION: **MSWS OBSERVATORY**
Fort Collins, Colorado

DATE: **JUN 01 1999**

TIME (MST)	Temperature (°F)	Relative Humidity (%)	Precipitation (Melted-inches)	Snowfall (Unmelted-inches)	Sky Cover (Scale 0-10)	WIND				PEAK WIND			Visibility	REMARKS	Weather and Obstruction to Vision	Time of Beginning	Time of End	
						Direction (Tens of Degrees)	1-Minute Speed (MPH)	2-Minute Speed (MPH)	Character	Peak Speed (MPH)	Associated Direction	Time of Occurrence						
0100	49	48			3	32	07	07					25					
0200	49	52			2	00	00	00					25			T	1715	1850
0300	48	54			2	32	04	04					25			Rev	1720	1724
0400	44	67			2	34	04	04					25					
0500	42	81			3	27	02	02					25	ACSL W				
0600	47	70			3	14	05	05					75	ACSL SW+W				
0700	53	49			3	14	05	05					75	ACSL W				
0800	57	38			1	20	07	07					75	ACSL SW				
0900	60	35			1	20	05	05					75	ACSL SW-NW				
1000	63	32			1	20	07	07					75	ACSL SW+SE				
1100	67	26			1	20	07	07					75	ACSL SW+NW				
1200	69	25			1	20	07	07					75	ACSL SW-N 66/1108				
1300	71	22			4	20	06	06					75	ACSL SW-NW				
1400	73	21			4	14	05	05					75					
1500	74	21			6	12	07	07					75	75/1416				
1600	74	21			7	14	07	07					75					
1700	71	23			7	12	07	07					75	MDT CW W VNTY STN				
1800	70	30	T		10	14	04	04					75	TB 15 VNTY STN N-S MOVE SE				
1900	67	34			10	14	07	07					75	TB 55 MOVE SE CB NE-SE MOVE E				
2000	63	57			9	12	05	05					25					
2100	58	69			5	00	00	00					25					
2200	55	80			3	00	00	00					25					
2300	51	86			0	00	00	00					25					
2400	49	90			0	00	00	00					25					
SUM	.....	.....	T	0	88	Prevailing	108	108	.....	.....	.....	.....	.....
AVG	.....	.....	.....	.....	3.7	14	4.5	4.5	.....	.....	.....	.....	.....

81001
 81041
 81040
 81041
 81131
 81271
 81576
 81000

Time (MST)	Max Temp	Min Temp	Precip	Snow-fall	Snow on the Ground
0000-0500	49	42	0	0	0
0500	49	42	0	0	0
1100	67	42	0	0	0
1700	75	66	0	0	0
2300	71	51	0	0	0
2300-2400	51	49	0	0	0

TEMPERATURE (°F)						Precipitation (Inches)			WIND (MPH/10's of Degrees)										SKY COVER		Weather or obstructions to vision	
24-Hour Max	24-Hour Min	Avg. Temperature	Heating Degree Days	Cooling Degree Days		Total Precipitation	Total Snow-fall	Snow/Ice on Ground 0500	Prvlg Wind Direc	Avg Hourly Wind Speed	Highest 1-Min Speed	Associated Direc	Time	Highest 2-Min Speed	Associated Direc	Time	Peak Gust	Associated Direc	Time	Avg. Sunrise to Sunset		Avg. 0000-2400
75	42	59	60	T	0	0	0	0	14	45	12	32	0127	11	32	0127	15	32	0127	4	4	

Additional notes, remarks or comments:
 1715 TB OVHD CB VNTY STN S-N MOVE E

BWW: B 0230 E 2000 (WIND DIRECTION ESTIMATED AT OTHER TIMES)

Sunrise 0432 Sunset 1924

TIME (MST)	0455		
ATT. THERM.	67.0		
OBSRVD. BARO.	29.97		
TOTAL CORR.	-0.02		
STA. PRESS.	29.951		
BAROGRAPH	29.940		
BARO. CORR.	+0.010		
SEA LEVEL PRES.	29.950		
ALTIMETER SETTING	29.90		
ANEROID BARO.	29.960		
CORR.	-0.030		