

Technical Support Document For the Multiple High Wind Events of May and June 2002



Colorado Department
of Public Health
and Environment

Prepared by the Technical Services Program
Air Pollution Control Division
November 20, 2002

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1.0 Introduction

PM₁₀ Standards

In July 1987, EPA promulgated National Ambient Air Quality Standards for Particulates with an aerodynamic diameter of 10 microns or less (PM₁₀). This is a size that can be inhaled into the alveolar regions of the lungs. The standard has two forms, a 24-hour standard of 150 ug/m³ and an annual arithmetic mean standard of 50 ug/m³. The 24-hour standard is attained when the expected number of exceedances for each calendar year, averaged over three years, is less than or equal to one. The estimated number of exceedances is computed quarterly using available data and adjusting for missing sample days. The annual arithmetic mean standard is attained when the annual mean, averaged over three years is less than or equal to the level of the standard. Each annual mean is computed from the average of each quarter in the year, with adjustments made for missing sample days. In both cases, a data recovery of 75 percent is needed for each calendar quarter to be considered a valid quarter of data. This standard was modified in by EPA in July 1997, but was subsequently nullified back to this form in May 1999.

PM₁₀ exceedances were monitored on May 21, 2002 (160 ug/m³ at Alamosa; 196 ug/m³ at the Lamar Power Plant site; 183 ug/m³ at the Lamar Municipal Complex site). In addition, an elevated level of 134 ug/m³ was recorded at the Alamosa Municipal Building site. On June 20, 2002, exceedances were monitored at the Lamar Power Plant site (181 ug/m³) and the Lamar Municipal Complex site (162 ug/m³). The elevated levels coincided with successive low pressure systems and widespread high winds and gusty conditions that moved across the state.

EPA's Natural Events Policy enables states to demonstrate that PM₁₀ exceedances were caused by natural events (volcanic and seismic activities, wildland fires, or high winds) and therefore are not to be taken into account in determining compliance with National Ambient Air Quality Standards (NAAQS). The Natural Events Policy requires that sufficient documentation be submitted to EPA to demonstrate:

1. That an event occurred that meets the definition of a natural event. This can include monitored particulate data, videos and photographs of the event, eyewitness accounts, and news accounts.
2. That there is a cause and effect relationship between the event and the exceedance. This can include meteorological data, receptor analyses, dispersion modeling, etc.
3. Should a PM₁₀ NAAQS violation occur due to a natural event, a Natural Events Action Plan (NEAP) should be implemented. Due to past PM₁₀ violations, NEAPs are in place for Lamar and Alamosa.

In this report, the Air Pollution Control Division (APCD) provides documentation to support that PM₁₀ exceedances monitored on May 21, 2002, and June 20, 2002 were caused by a natural event.

2.0 Meteorological Data for the May 21, 2002 Event

On Tuesday May 21, 2002, Alamosa and Lamar recorded exceedances of the twenty-four-hour PM10 standard with readings of 160 ug/m³ at Alamosa (Adams State College), 196 ug/m³ at the Lamar Power Plant, and 183 ug/m³ at the Lamar Municipal Building. In addition, the Alamosa Municipal Building had an elevated value of 134 ug/m³. An intense upper level low moved northeast from Utah towards Montana on May 21. Figure 1 shows the 700 millibars (mb) or 10,000-foot level features including a packed gradient over Colorado and winds of 45 knots. The surface weather map for 19Z May 21 (1:00 PM MST on May 21) in Figure 2 shows a storm system with a central pressure of 986 mb in north-central Colorado. The central pressure of the storm is significant since storms of about 1000 mb or lower were identified as a typical precondition for significant blowing dust in eastern Colorado when soils are dry (see reference for the *Natural Events Action Plan for High Wind Events – Lamar, Colorado* at the end of this document).

The intense surface and upper level low pressure systems generated widespread high winds and blowing dust in Utah, New Mexico, Colorado, Kansas, Nebraska, and Wyoming. Figures 3 and 4 show surface weather conditions for 20Z and 22Z (2:00 PM and 4:00 PM), respectively, on May 21. Wind symbols point in the direction that the wind was blowing. Each full barb or flag represents 10 miles per hour (mph) of wind speed. Each half barb represents 5 mph of speed. Winds of 30 to 45 mph were common across the entire multi-state region. Red infinity signs and modified dollar signs represent haze or blowing dust. The small red numbers in front of these symbols show the visual range in miles at the time. Visibilities of 1 to 9 miles in haze or blowing dust were common across the region. At 2:00 PM, for example, the visibility at Trinidad, Colorado, (TAD) was 2 miles in haze or blowing dust with a wind speed of 40 mph.

Sustained winds and gusts in Colorado exceeded blowing dust criteria in most areas of Colorado. A majority of stations recorded wind speeds in excess of 30 mph and gusts in excess of 40 mph. These are the speed and gust thresholds for blowing dust that apply in southeastern Colorado when surface soils are dry (see reference for the *Natural Events Action Plan for High Wind Events – Lamar, Colorado* at the end of this document). Tables 1 and 2 below lists wind speeds and gusts for Lamar and Alamosa, respectively, on May 21. The 30 mph blowing dust threshold applies to hourly average winds. Wind speed observations at stations like Lamar and Alamosa are made just prior to the reported hour of observation. In most cases, these recorded speeds are not hourly average speeds but represent a several-minute average. If these spot observations show that speeds are above the 30 mph threshold for successive hours, then it can be reasonably assumed that hourly average winds are also above 30 mph. During the late morning, afternoon, and evening hours of May 21, winds at Lamar exceeded the blowing dust thresholds for thirteen consecutive hours. The highest gust during this period was 59 mph. During the same period, winds at Alamosa exceeded blowing dust thresholds for eleven consecutive hours. The highest gust during the period was 55 mph

Strong winds were the norm across much of Colorado on May 21, 2002. Many stations recorded winds of 40 to 50 mph with gusts of 45 to 74 mph for several hours of the day. Detailed weather observations for sites in Colorado on May 21 have been included in Attachment A. Reports of haze or blowing dust were common. At the height of the dust storm, visibility at Lamar dropped to one mile at 7:00 PM (see Attachment A) and 1.75 miles at 7:53 PM (see Table 1).

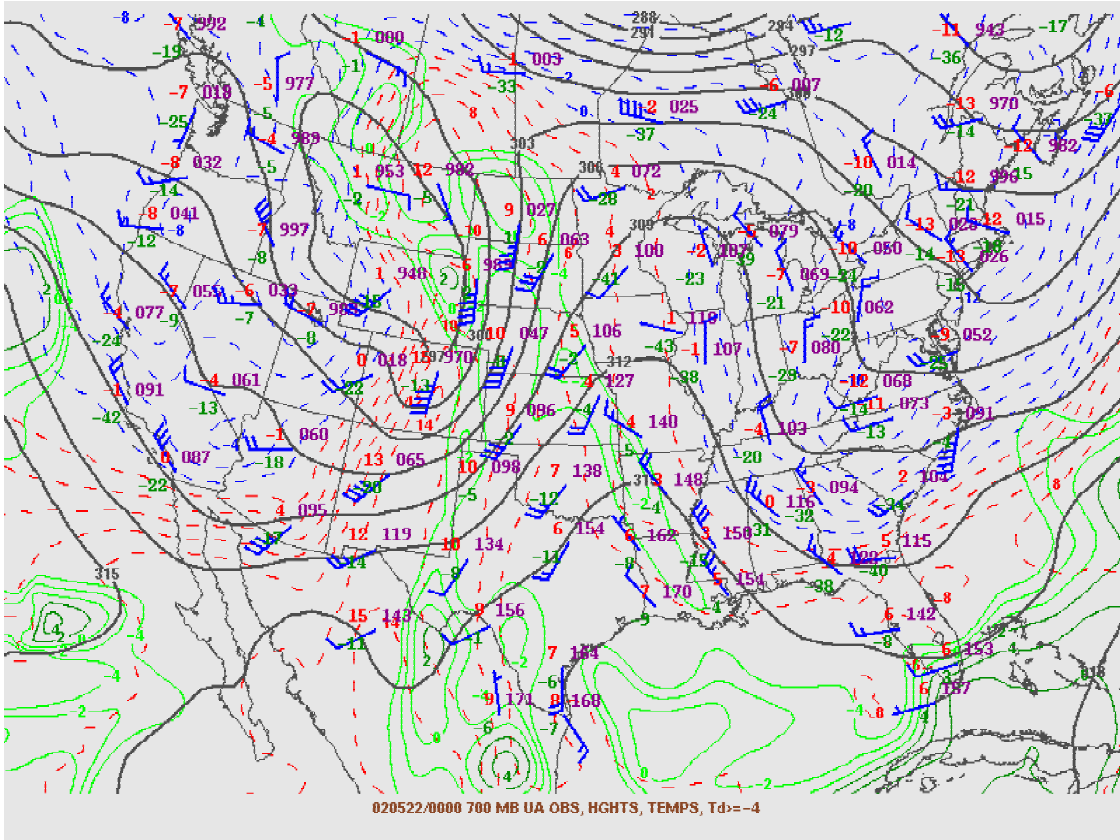


Figure 1. Upper level (700 mb or about 10,000 feet above sea level) weather map for 00Z May 22, 2002, or 6 PM MST May 21, 2002.

Figure 5(a) shows the March 2002 precipitation for Lamar, Alamosa, Saguache, Salida, Colorado Springs, Rocky Ford, and Pueblo. Figure 5(b) shows the April 2002 precipitation at these stations, and Figure 5(c) shows the May 1 through 20, 2002, precipitation at these sites. Precipitation amounts were low at most sites.

Figure 6 shows that the U.S. Drought Monitor had declared that an *extreme* drought was underway in most of Colorado including the area around Lamar and Alamosa. This designation was made on May 23 and was representative of conditions in place on May 21.

Figure 7 shows images of blowing dust at Denver and Colorado Springs in the late afternoon/early evening of May 21, 2002. Cloud cover in many areas of the state precluded good satellite imagery of the dust storm.

Reference

Colorado Department of Public Health and Environment, City of Lamar, Prowers County Commissioners, *Natural Events Action Plan for High Wind Events – Lamar, Colorado*, April 1998.

Wind Speed (kts) / MSLP (mb)

Analysis valid 1900 UTC Tue 21 May 2002

RUC2 model (19z 21 May)

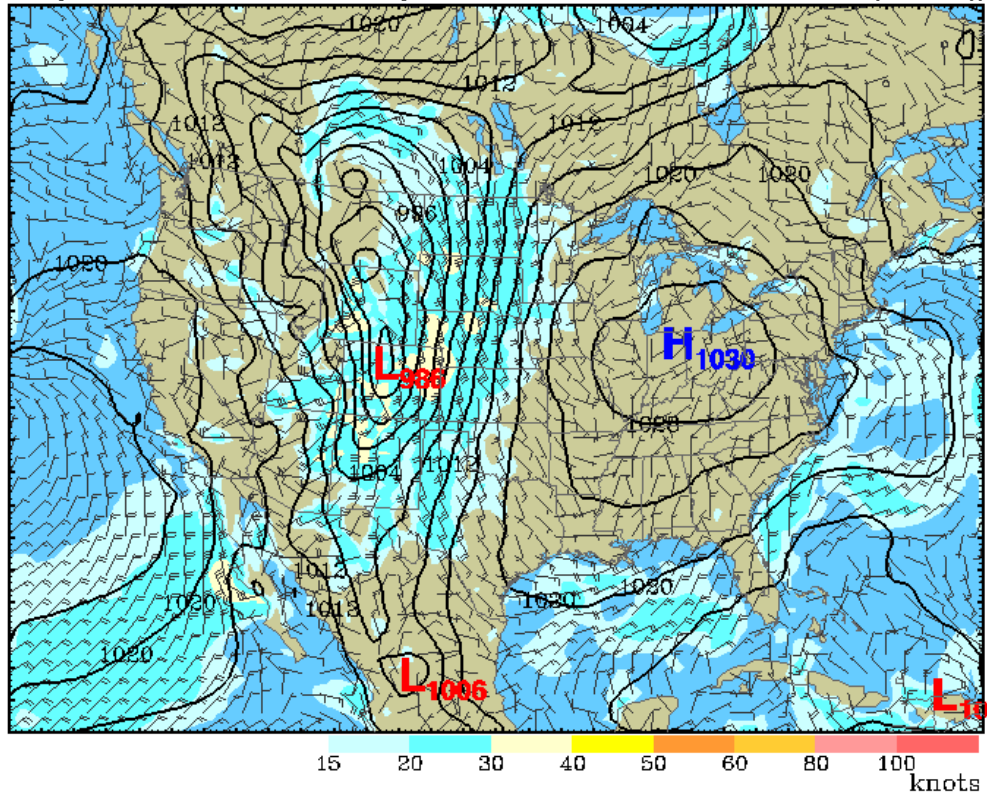


Figure 2. Surface weather map for 19Z May 21, 2002, or *1 PM MST May 21, 2002*.

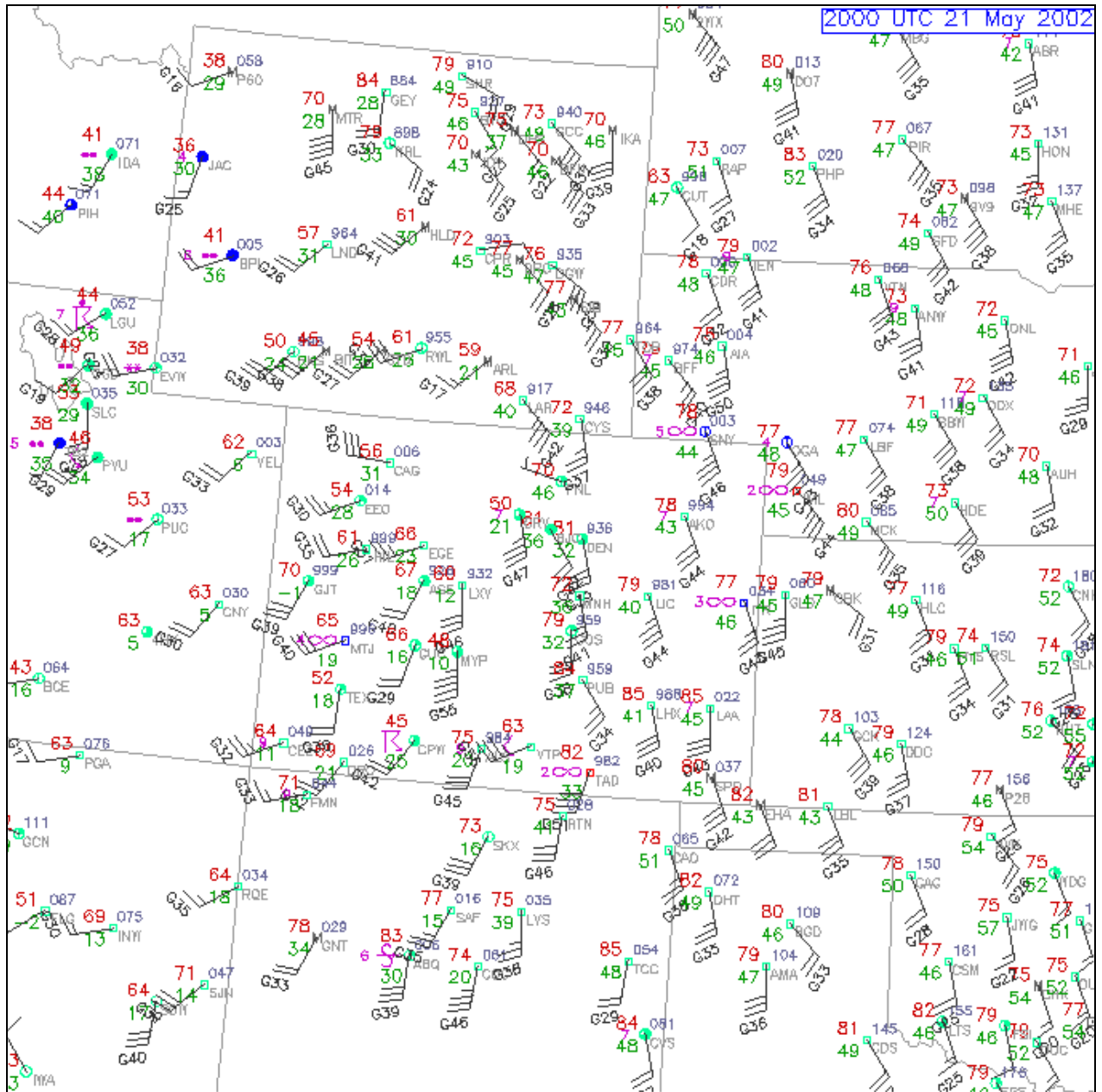


Figure 3. Surface weather map for 2000Z or 2 PM on May 21, 2002, centered on Colorado (see text of report for explanation of symbols).

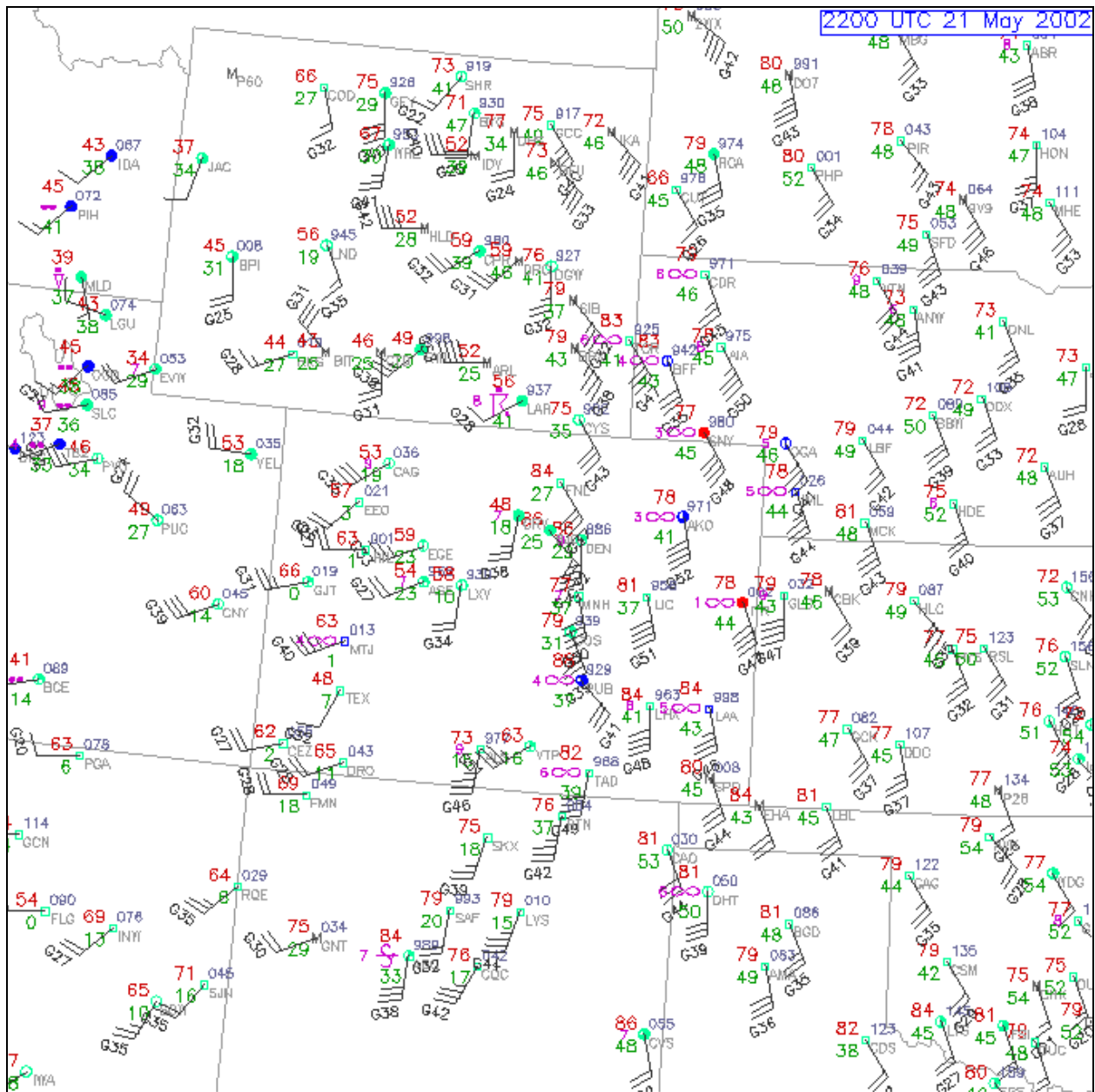


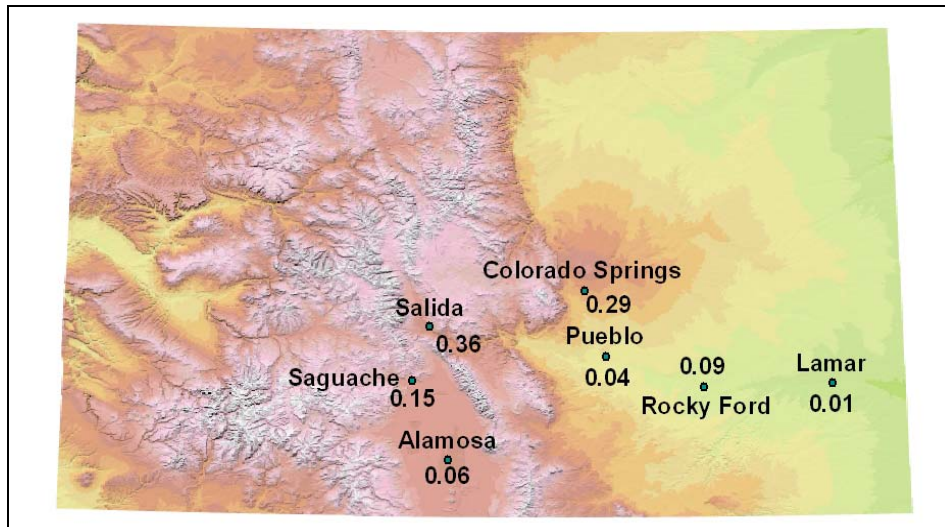
Figure 4. Surface weather map for 2200Z or 4 PM on May 21, 2002, centered on Colorado (see text of report for explanation of symbols).

Table 1. Wind observations for Lamar reported by the National Weather Service on May 21, 2002. Wind speeds or gusts at or above the blowing dust threshold are highlighted in bold and yellow.

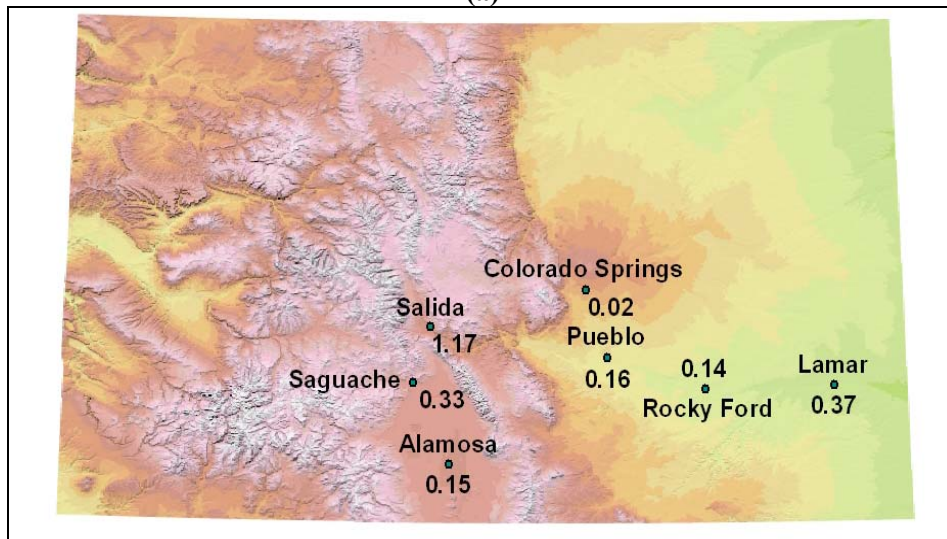
Day of Month during May	Time (Mountain Daylight)	Wind Direction	Wind Speed in mph	Gust Speed in mph	Visibility in Miles	Comments
22	12:53AM	Southerly	36	56	9	
21	11:53PM	Southerly	38	59	6	HAZE
21	10:53PM	Southerly	40	55	6	HAZE
21	09:53PM	Southerly	43	55	4	HAZE
21	08:53PM	South-southeasterly	41	52	6	HAZE
21	07:53PM	South-southeasterly	37	56	3	HAZE
21	05:53PM	Southerly	36	51	1 3/4	HAZE
21	04:53PM	Southerly	32	51	6	HAZE
21	03:53PM	Southerly	38	53	5	HAZE
21	02:53PM	Southerly	39	54	4	HAZE
21	01:53PM	Southerly	36	52	7	
21	01:01PM	Southerly	37	47	2	HAZE
21	11:53AM	Southerly	38	52	7	
21	10:53AM	Southerly	35	49	8	
21	09:53AM	Southerly	28	35	10	
21	08:53AM	Southerly	17	30	10	
21	07:53AM	Southerly	25	33	10	
21	06:53AM	Southeasterly	9	0	10	
21	05:53AM	Southeasterly	12	0	10	

Table 2. Wind observations for Alamosa reported by the National Weather Service on May 21, 2002.
 Wind speeds or gusts at or above the blowing dust threshold are highlighted in bold and yellow.

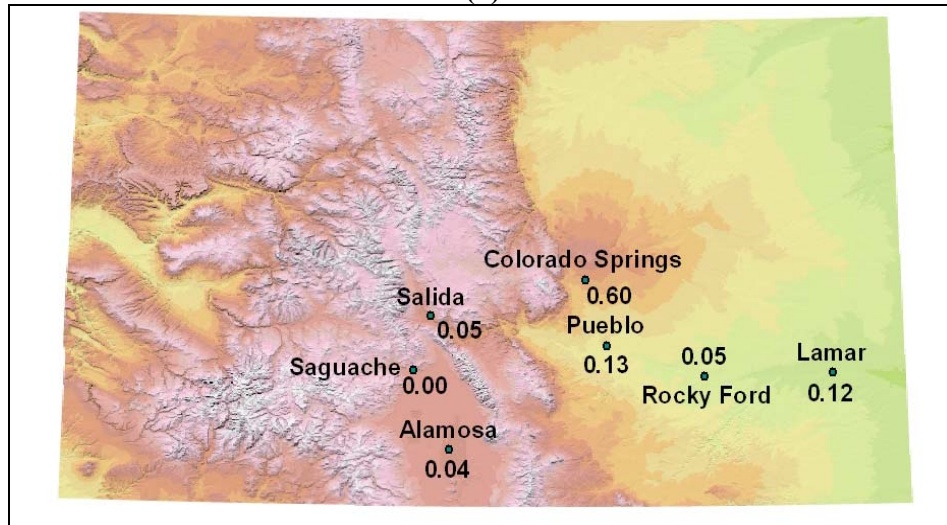
Day of Month during May	Time (Mountain Daylight)	Wind Direction	Wind Speed in mph	Gust Speed in mph	Visibility in Miles	Comments
21	11:52PM	Southwesterly	18	0	10	
21	10:52PM	Southwesterly	13	0	10	
21	09:52PM	Variable	6	31	10	
21	08:52PM	West-southwesterly	23	37	10	
21	07:52PM	Southwesterly	26	43	10	
21	06:52PM	Southwesterly	30	46	10	
21	05:52PM	Southwesterly	32	44	10	
21	04:52PM	Southwesterly	32	48	10	
21	03:52PM	Southerly	39	53	9	
21	02:52PM	South-southwesterly	31	51	10	
21	01:52PM	South-southwesterly	33	55	9	
21	12:52PM	Southerly	38	51	10	
21	11:52AM	Southerly	38	52	10	
21	10:52AM	Southerly	39	55	8	
21	09:52AM	Southerly	35	40	10	
21	08:52AM	Southerly	28	36	10	
21	07:52AM	Southerly	25	30	10	
21	06:52AM	Southerly	16	0	10	
21	05:52AM	Southerly	10	0	10	



(a)



(b)



(c)

Figure 5. Total precipitation (inches of water): (a) March, (b) April, and (c) May 1-20, 2002.

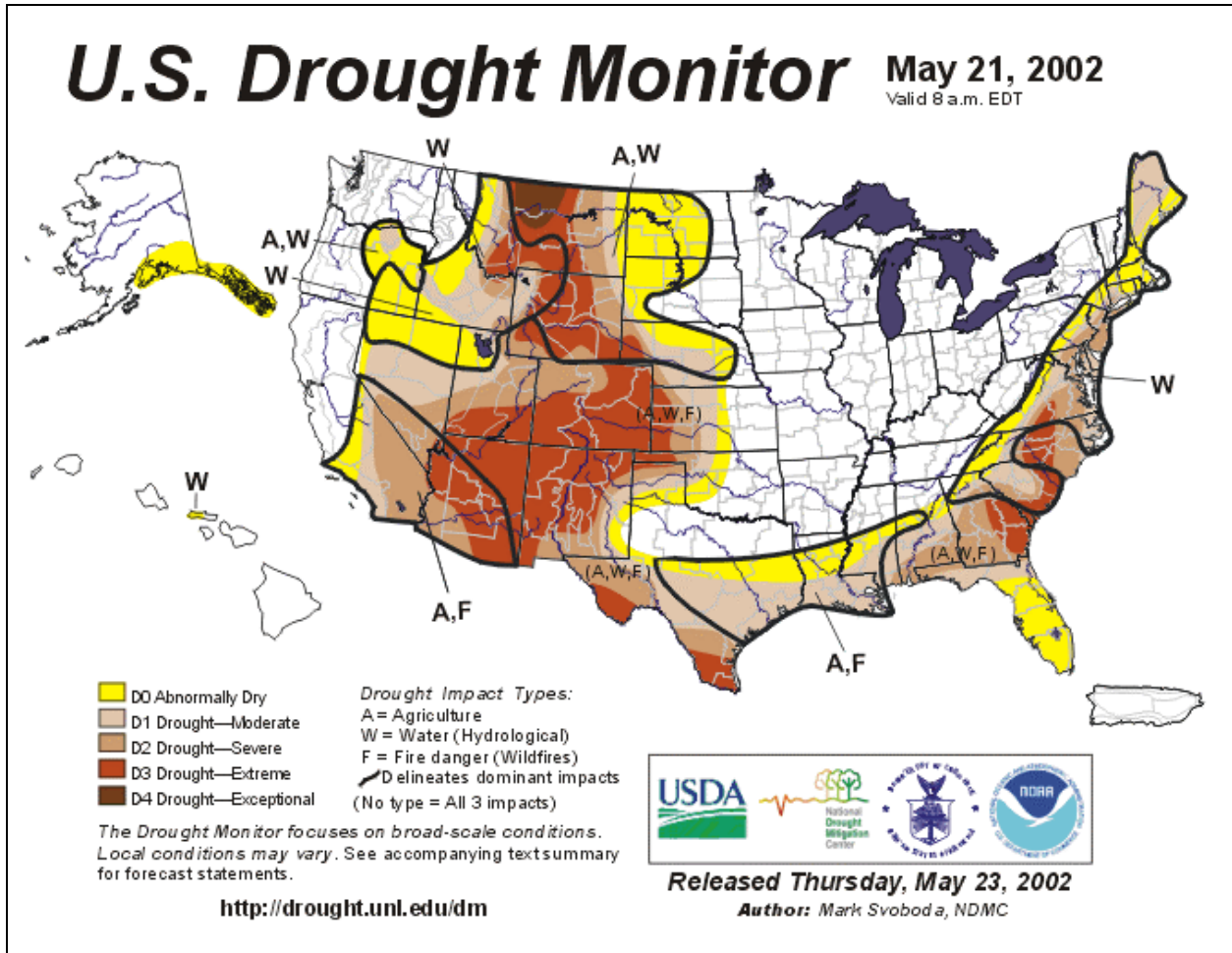


Figure 6. Drought status for the United States on May 21, 2002 (source: the USDA, NOAA, and the National Drought Mitigation Center at: <http://drought.unl.edu/monitor/monitor.html>, released on May 23, 2002).



(a)



(b)

Figure 7. Images of blowing dust in the afternoon/early evening hours in (a) Denver and (b) Colorado Springs on May 21, 2002.

Attachment A
Colorado Surface Weather Observations for
May 21, 2002,
Reported by the National Weather Service

COLORADO STATE WEATHER ROUNDUP
 NATIONAL WEATHER SERVICE DENVER CO
 600 AM MDT TUE MAY 21 2002

NOTE: "FAIR" INDICATES FEW OR NO CLOUDS BELOW 12000 FEET WITH NO SIGNIFICANT WEATHER AND/OR OBSTRUCTIONS TO VISIBILITY.

COZ001>005-013-030-031-211300-
 NORTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
CRAIG	CLEAR	53	33	46	SE14	29.75F	
HAYDEN	CLEAR	48	37	66	MISG	29.79F	
MEEKER	PTCLDY	40	28	62	CALM	29.75S	

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COZ006>008-011-211300-
 WEST CENTRAL VALLEYS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GRAND JUNCTION	CLEAR	63	20	19	SE8	29.69S	
MONTROSE	CLEAR	52	24	33	E6	29.77F	
EAGLE	PTCLDY	43	32	65	SE3	29.85F	
RIFLE	PTCLDY	58	22	24	S10	29.73S	

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COZ017>023-211300-
 SOUTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DURANGO	CLOUDY	44	24	45	E6	29.95F	
CORTEZ	CLOUDY	61	19	19	S23G30	29.86R	
TELLURIDE	FAIR	50	16	26	S23	29.98S	
WOLF CREEK PAS	FAIR	36	32	87	SW21G29	30.19S	

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COZ009-010-012-014-032-033-034-037-058-059-069-211300-
 CENTRAL COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ASPEN	PTCLDY	56	27	32	SE12	29.86F	
COPPER MTN	FAIR	37	23	56	SE22G39	30.13F	
GUNNISON	PTCLDY	52	27	37	SE13	29.95F	
LEADVILLE	CLOUDY	37	36	96	N3	30.05F	
MONARCH PASS	FAIR	36	27	69	S17G25	30.32S	
NIWOT RIDGE	FAIR	41	23	48	S24G33	30.15F	

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COZ060>066-211300-
 SAN LUIS VALLEY/SANGRE DE CRISTO MOUNTAINS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ALAMOSA	PTCLDY	48	36	63	S10	30.03S	
LA VETA PASS	FAIR	46	30	53	S29G44	30.16F	

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COZ035-036-038>040-211300-
 NORTHERN COLORADO FRONT RANGE

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DENVER INTL AP	MOCLDY	53	45	74	S22	29.84F	
AURORA	MOCLDY	54	46	76	S16	29.85F	
ENGLEWOOD	CLOUDY	53	44	71	SE16G24	29.87F	

BROOMFIELD	MOCLDY	46	46	100	NW6	29.87	FOG
LOVELAND	FAIR	45	41	87	N9	29.85S	

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COZ041-046-047-067-068-070>072-074-075-211300-
 PIKES PEAK/PALMER DIVIDE AND SOUTHERN FOOTHILLS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
COLO. SPRINGS	CLOUDY	48	44	86	E8	29.96S	
A. F. ACADEMY	MOCLDY	46	43	87	S8	29.94S	
FORT CARSON	MOCLDY	46	45	93	NW8	29.94F	
LIMON	CLOUDY	48	40	73	SE17	29.96F	
MONUMENT HILL	FAIR	45	45	100	SE18G24	29.94S	
TRINIDAD	MOCLDY	55	46	71	W17G24	29.95F	

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COZ042>045-048>051-090-091-211300-
 NORTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GREELEY ARPT	FAIR	50	43	76	SE14G20	29.84F	
AKRON	CLOUDY	51	40	65	SE22	29.92F	
BURLINGTON	MOCLDY	50	42	74	SE23G30	29.98F	

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COZ073-076>081-092-211300-
 SOUTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
PUEBLO	CLOUDY	46	41	82	NE3	29.89F	
LA JUNTA	MOCLDY	54	49	83	SE10	29.92F	
LAMAR	CLOUDY	56	42	59	SE12	29.99S	
SPRINGFIELD	N/A	51	43	74	S12	30.01S	

COLORADO STATE WEATHER ROUNDUP
 NATIONAL WEATHER SERVICE DENVER CO
 700 AM MDT TUE MAY 21 2002

NOTE: "FAIR" INDICATES FEW OR NO CLOUDS BELOW 12000 FEET WITH NO SIGNIFICANT WEATHER AND/OR OBSTRUCTIONS TO VISIBILITY.

COZ001>005-013-030-031-211400-
 NORTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
CRAIG	MOSUNNY	50	37	61	W7	29.75S	
HAYDEN	MOSUNNY	52	37	58	MISG	29.77F	
MEEKER	SUNNY	44	28	53	E7	29.74F	

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COZ006>008-011-211400-
 WEST CENTRAL VALLEYS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GRAND JUNCTION	PTSUNNY	67	20	16	SE13	29.68F	
MONTROSE	MOSUNNY	59	25	27	SE6	29.75F	
EAGLE	PTSUNNY	43	34	70	SE3	29.84F	
RIFLE	SUNNY	57	23	26	S6	29.71F	

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COZ017>023-211400-
 SOUTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DURANGO	CLOUDY	48	28	46	E8	29.94F	
CORTEZ	CLOUDY	61	20	20	S18	29.86S	
TELLURIDE	FAIR	52	16	24	SE24G43	29.96F	
WOLF CREEK PAS	FAIR	36	27	69	S15G29	30.20R	

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COZ009-010-012-014-032-033-034-037-058-059-069-211400-
CENTRAL COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ASPEN	MOSUNNY	58	26	29	SE10	29.86S	
COPPER MTN	FAIR	37	23	56	SE39G46	30.06F	
GUNNISON	CLOUDY	52	25	35	S7	29.95F	
LEADVILLE	PTSUNNY	40	36	86	CALM	30.02F	
MONARCH PASS	FAIR	37	25	60	S26G35	30.30F	
NIWOT RIDGE	FAIR	41	23	48	S17	30.15R	

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COZ060>066-211400-
SAN LUIS VALLEY/SANGRE DE CRISTO MOUNTAINS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ALAMOSA	MOSUNNY	52	37	56	S16	30.02F	
LA VETA PASS	FAIR	46	27	46	S26G44	30.15F	

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COZ035-036-038>040-211400-
NORTHERN COLORADO FRONT RANGE

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DENVER INTL AP	CLOUDY	54	45	71	S12	29.84S	
AURORA	PTSUNNY	55	46	71	S16	29.84F	
ENGLEWOOD	CLOUDY	53	44	71	S20	29.86F	
BROOMFIELD	PTSUNNY	48	46	93	NW7	29.86F	FOG
LOVELAND	FAIR	48	43	81	N7	29.83F	

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COZ041-046-047-067-068-070>072-074-075-211400-
PIKES PEAK/PALMER DIVIDE AND SOUTHERN FOOTHILLS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
COLO. SPRINGS	CLOUDY	49	45	86	VRB6	29.96S	
A. F. ACADEMY	PTSUNNY	46	45	93	S7	29.94S	
FORT CARSON	NOT AVBL						
LIMON	CLOUDY	49	40	71	SE16	29.95F	
MONUMENT HILL	FAIR	46	46	100	S21G26	29.93S	
TRINIDAD	PTSUNNY	56	47	71	W20G25	29.95S	

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COZ042>045-048>051-090-091-211400-
NORTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GREELEY ARPT	FAIR	54	43	66	SE14	29.83S	
AKRON	CLOUDY	52	41	66	SE24G29	29.90F	
BURLINGTON	CLOUDY	51	43	74	SE25G35	29.97F	

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COZ073-076>081-092-211400-
SOUTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
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PUEBLO	CLOUDY	50	44	80	CALM	29.89S
LA JUNTA	PTSUNNY	62	48	60	SE15	29.91F
LAMAR	CLOUDY	57	43	59	SE9	29.98F
SPRINGFIELD	N/A	53	42	66	S20	30.00F

COLORADO STATE WEATHER ROUNDUP
 NATIONAL WEATHER SERVICE DENVER CO
 800 AM MDT TUE MAY 21 2002

NOTE: "FAIR" INDICATES FEW OR NO CLOUDS BELOW 12000 FEET WITH NO SIGNIFICANT WEATHER AND/OR OBSTRUCTIONS TO VISIBILITY.

COZ001>005-013-030-031-211500-
 NORTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
CRAIG	MOSUNNY	58	39	49	E3	29.72F	
HAYDEN	MOSUNNY	55	39	54	MISG	29.75F	
MEEKER	SUNNY	58	31	35	VRB6	29.71F	

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COZ006>008-011-211500-
 WEST CENTRAL VALLEYS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GRAND JUNCTION	MOSUNNY	67	23	19	SW8	29.68S	
MONTROSE	SUNNY	63	24	22	SE3	29.74F	
EAGLE	PTSUNNY	48	34	57	CALM	29.81F	
RIFLE	SUNNY	63	35	35	NE6	29.69F	

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COZ017>023-211500-
 SOUTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DURANGO	CLOUDY	56	34	43	SE16	29.94S	
CORTEZ	MOSUNNY	64	22	20	S16G28	29.86S	
TELLURIDE	FAIR	52	19	28	S30G41	29.93F	

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COZ009-010-012-014-032-033-034-037-058-059-069-211500-
 CENTRAL COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ASPEN	MOSUNNY	59	22	24	SE12	29.83F	
COPPER MTN	FAIR	39	19	45	SE22G40	30.10R	
GUNNISON	PTSUNNY	57	28	33	SE15	29.92F	
LEADVILLE	PTSUNNY	47	27	45	S13G23	29.99F	
MONARCH PASS	FAIR	39	21	48	S22G35	30.28F	
NIWOT RIDGE	FAIR	37	27	65	S21	30.12F	

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COZ060>066-211500-
 SAN LUIS VALLEY/SANGRE DE CRISTO MOUNTAINS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ALAMOSA	PTSUNNY	56	36	47	S25G30	30.01F	
LA VETA PASS	FAIR	48	28	46	SW14G23	30.14F	

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COZ035-036-038>040-211500-
 NORTHERN COLORADO FRONT RANGE

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DENVER INTL AP	CLOUDY	58	46	64	S22G29	29.82F	
AURORA	PTSUNNY	57	46	67	S18	29.82F	
ENGLEWOOD	CLOUDY	55	45	68	SE18	29.84F	
BROOMFIELD	PTSUNNY	52	48	87	NW7	29.84F	
LOVELAND	FAIR	52	43	71	N12	29.81F	

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COZ041-046-047-067-068-070>072-074-075-211500-
PIKES PEAK/PALMER DIVIDE AND SOUTHERN FOOTHILLS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
COLO. SPRINGS	CLOUDY	51	46	83	SE10	29.94F	
A. F. ACADEMY	CLOUDY	50	45	81	S12	29.91F	
FORT CARSON	PTSUNNY	50	45	81	N5	29.92	
LIMON	CLOUDY	53	42	66	S23G30	29.93F	
MONUMENT HILL	FAIR	52	48	87	SE15G22	29.91F	
TRINIDAD	MOSUNNY	61	46	57	VRB7	29.95S	

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COZ042>045-048>051-090-091-211500-
NORTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GREELEY ARPT	FAIR	55	45	67	SE10	29.80F	
AKRON	CLOUDY	55	42	61	S24G36	29.87F	
BURLINGTON	PTSUNNY	55	43	63	S28G37	29.95F	

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COZ073-076>081-092-211500-
SOUTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
PUEBLO	CLOUDY	55	45	68	CALM	29.87F	
LA JUNTA	PTSUNNY	66	48	52	SE18	29.89F	
LAMAR	PTSUNNY	63	42	46	S25G33	29.96F	
SPRINGFIELD	N/A	60	42	51	S24	29.99F	

COLORADO STATE WEATHER ROUNDUP
NATIONAL WEATHER SERVICE DENVER CO
900 AM MDT TUE MAY 21 2002

NOTE: "FAIR" INDICATES FEW OR NO CLOUDS BELOW 12000 FEET WITH NO SIGNIFICANT WEATHER AND/OR OBSTRUCTIONS TO VISIBILITY.

COZ001>005-013-030-031-211600-
NORTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
CRAIG	MOSUNNY	65	39	38	NE9	29.68F	
HAYDEN	PTSUNNY	64	39	39	MISG	29.71F	
MEEKER	SUNNY	67	20	16	S23G28	29.68F	

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COZ006>008-011-211600-
WEST CENTRAL VALLEYS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GRAND JUNCTION	PTSUNNY	69	20	15	SW17G29	29.66F	
MONTROSE	MOSUNNY	73	20	13	S30G45	29.70F	HAZE
EAGLE	MOSUNNY	54	34	47	W6	29.75F	
RIFLE	SUNNY	73	19	13	S9	29.64F	

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COZ017>023-211600-

SOUTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DURANGO	CLOUDY	60	33	36	SE8G17	29.93F	
CORTEZ	PTSUNNY	65	21	18	SW30G36	29.85F	
WOLF CREEK PAS	FAIR	39	25	56	S16G29	30.19F	

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COZ009-010-012-014-032-033-034-037-058-059-069-211600-

CENTRAL COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ASPEN	MOSUNNY	63	21	20	S13G24	29.80F	
COPPER MTN	FAIR	37	18	44	SE29G55	30.04F	
GUNNISON	MOSUNNY	61	25	25	E18	29.88F	
LEADVILLE	PTSUNNY	51	24	34	S17G24	29.95F	
NIWOT RIDGE	FAIR	39	25	56	S30G36	30.08F	

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COZ060>066-211600-

SAN LUIS VALLEY/SANGRE DE CRISTO MOUNTAINS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ALAMOSA	PTSUNNY	60	34	37	S28G36	29.98F	
LA VETA PASS	FAIR	52	28	40	SW15G30	30.12F	

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COZ035-036-038>040-211600-

NORTHERN COLORADO FRONT RANGE

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DENVER INTL AP	CLOUDY	62	47	57	S17	29.79F	
AURORA	PTSUNNY	66	45	45	S21	29.80F	
ENGLEWOOD	CLOUDY	61	47	59	SE18G24	29.81F	
BROOMFIELD	PTSUNNY	55	48	76	N5	29.81F	
LOVELAND	FAIR	55	43	62	N10	29.78F	

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COZ041-046-047-067-068-070>072-074-075-211600-

PIKES PEAK/PALMER DIVIDE AND SOUTHERN FOOTHILLS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
COLO. SPRINGS	CLOUDY	56	46	69	SE12	29.91F	
A. F. ACADEMY	PTSUNNY	52	46	82	S10	29.89F	
FORT CARSON	PTSUNNY	55	46	71	VRB3	29.90F	
LIMON	CLOUDY	59	44	57	S23G31	29.90F	
MONUMENT HILL	FAIR	55	50	82	SE24G36	29.89S	
TRINIDAD	MOSUNNY	64	46	52	W16	29.93F	

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COZ042>045-048>051-090-091-211600-

NORTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GREELEY ARPT	FAIR	63	46	55	S13	29.78F	
AKRON	CLOUDY	59	44	57	S24G33	29.86F	
BURLINGTON	CLOUDY	60	44	55	S31G39	29.94F	

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COZ073-076>081-092-211600-

SOUTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
PUEBLO	CLOUDY	61	47	59	NE5	29.85F	
LA JUNTA	CLOUDY	70	48	45	S17	29.87F	
LAMAR	PTSUNNY	68	44	42	S17G26	29.95F	
SPRINGFIELD	N/A	65	44	46	S25G38	29.97F	

COLORADO STATE WEATHER ROUNDUP
 NATIONAL WEATHER SERVICE DENVER CO
 1000 AM MDT TUE MAY 21 2002

NOTE: "FAIR" INDICATES FEW OR NO CLOUDS BELOW 12000 FEET WITH NO SIGNIFICANT WEATHER AND/OR OBSTRUCTIONS TO VISIBILITY.

COZ001>005-013-030-031-211700-
NORTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
CRAIG	SUNNY	71	27	19	S17G25	29.63F	
HAYDEN	MOSUNNY	68	30	24	MISG	29.66F	
MEEKER	SUNNY	68	20	16	SW22G30	29.65F	

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COZ006>008-011-211700-
WEST CENTRAL VALLEYS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GRAND JUNCTION	PTSUNNY	69	20	15	SW26G47	29.66S	
MONTROSE	PTSUNNY	73	19	13	S32G44	29.68F	HAZE
EAGLE	SUNNY	70	28	21	S21G32	29.70F	
RIFLE	MOSUNNY	76	19	11	S16G30	29.61F	

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COZ017>023-211700-
SOUTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DURANGO	PTSUNNY	64	30	27	S13	29.91F	
CORTEZ	CLOUDY	63	18	17	SW28G39	29.85S	
TELLURIDE	PTSUNNY	52	19	28	S14	29.88F	
WOLF CREEK PAS	FAIR	39	27	60	S18G47	30.13F	

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COZ009-010-012-014-032-033-034-037-058-059-069-211700-
CENTRAL COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ASPEN	MOSUNNY	67	23	19	S18G22	29.75F	
COPPER MTN	FAIR	39	21	48	SE36G48	30.00F	
GUNNISON	SUNNY	64	18	16	S22G31	29.83F	
LEADVILLE	MOSUNNY	53	22	29	S23G36	29.92F	
MONARCH PASS	FAIR	43	19	39	S26G41	30.21F	
NIWOT RIDGE	FAIR	41	25	52	S22G31	30.08S	

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COZ060>066-211700-

SAN LUIS VALLEY/SANGRE DE CRISTO MOUNTAINS							
CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ALAMOSA	PTSUNNY	64	30	27	S35G40	29.92F	
LA VETA PASS	FAIR	55	23	28	S32G55	30.06F	

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COZ035-036-038>040-211700-

NORTHERN COLORADO FRONT RANGE

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DENVER INTL AP	CLOUDY	67	47	48	S22G25	29.76F	
AURORA	NOT AVBL						
ENGLEWOOD	CLOUDY	67	45	45	S23G31	29.77F	
BROOMFIELD	CLOUDY	59	48	67	N3	29.78F	FOG
LOVELAND	FAIR	57	43	58	NE3	29.75F	

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COZ041-046-047-067-068-070>072-074-075-211700-

PIKES PEAK/PALMER DIVIDE AND SOUTHERN FOOTHILLS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
COLO. SPRINGS	CLOUDY	61	45	55	S16	29.88F	
A. F. ACADEMY	PTSUNNY	55	46	71	S17	29.85F	
FORT CARSON	PTSUNNY	63	48	59	W1	29.86F	
LIMON	CLOUDY	65	45	48	S28G35	29.87F	
TRINIDAD	CLOUDY	65	43	44	SW22	29.91F	

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COZ042>045-048>051-090-091-211700-

NORTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GREELEY ARPT	FAIR	66	48	52	S10G16	29.74F	
AKRON	CLOUDY	66	45	46	S32G43	29.82F	
BURLINGTON	CLOUDY	63	44	50	S35G40	29.91F	

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COZ073-076>081-092-211700-

SOUTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
PUEBLO	CLOUDY	66	46	48	E5	29.82F	
LA JUNTA	CLOUDY	76	48	37	S24G30	29.84F	
LAMAR	CLOUDY	74	46	36	S28G35	29.90F	
SPRINGFIELD	N/A	68	45	43	S31G38	29.94F	

COLORADO STATE WEATHER ROUNDUP

NATIONAL WEATHER SERVICE DENVER CO

1100 AM MDT TUE MAY 21 2002

NOTE: "FAIR" INDICATES FEW OR NO CLOUDS BELOW 12000 FEET WITH NO SIGNIFICANT WEATHER AND/OR OBSTRUCTIONS TO VISIBILITY.

COZ001>005-013-030-031-211800-

NORTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
CRAIG	MOSUNNY	70	24	17	SW24G29	29.60F	
HAYDEN	MOSUNNY	66	28	24	MISG	29.63F	
MEEKER	PTSUNNY	68	21	16	SW18G29	29.64F	

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COZ006>008-011-211800-

WEST CENTRAL VALLEYS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GRAND JUNCTION	CLOUDY	68	21	16	SW39G49	29.67R	
MONTROSE	PTSUNNY	71	22	15	SW28G37	29.68S	

EAGLE	SUNNY	73	25	16	SW16G31	29.65F	
RIFLE	PTSUNNY	74	21	13	W16G25	29.60F	

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COZ017>023-211800-
SOUTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DURANGO	CLOUDY	66	24	20	SW20G29	29.89F	
CORTEZ	PTSUNNY	65	23	20	SW30G40	29.84F	
WOLF CREEK PAS	PTSUNNY	43	25	49	S23G37	30.07F	

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COZ009-010-012-014-032-033-034-037-058-059-069-211800-
CENTRAL COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ASPEN	SUNNY	68	22	17	S18G26	29.72F	
GUNNISON	MOSUNNY	66	18	15	S28G36	29.80F	
LEADVILLE	SUNNY	56	23	27	SE18G36	29.87F	
MONARCH PASS	PTSUNNY	45	25	45	S32G41	30.18F	
NIWOT RIDGE	FAIR	43	23	45	S28G44	30.03F	

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COZ060>066-211800-

SAN LUIS VALLEY/SANGRE DE CRISTO MOUNTAINS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ALAMOSA	PTSUNNY	69	21	16	S39G52	29.89F	

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COZ035-036-038>040-211800-

NORTHERN COLORADO FRONT RANGE

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DENVER INTL AP	CLOUDY	73	43	33	S29G32	29.71F	
AURORA	PTSUNNY	72	37	28	S30G36	29.71F	
ENGLEWOOD	CLOUDY	70	42	36	S30G37	29.73F	
BROOMFIELD	PTSUNNY	61	50	67	N6	29.73F	FOG
LOVELAND	FAIR	59	45	58	E5	29.70F	

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COZ041-046-047-067-068-070>072-074-075-211800-

PIKES PEAK/PALMER DIVIDE AND SOUTHERN FOOTHILLS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
COLO. SPRINGS	CLOUDY	66	43	43	S20	29.84F	
A. F. ACADEMY	PTSUNNY	63	45	51	S22G28	29.81F	
FORT CARSON	NOT AVBL						
LIMON	CLOUDY	68	45	43	S31G38	29.84F	
MONUMENT HILL	FAIR	63	46	55	SE26G33	29.83F	
TRINIDAD	PTSUNNY	69	41	36	S30	29.88F	

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COZ042>045-048>051-090-091-211800-

NORTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GREELEY ARPT	FAIR	70	50	49	SE8	29.68F	
AKRON	CLOUDY	70	45	40	S30G43	29.79F	
BURLINGTON	CLOUDY	68	45	43	S29G43	29.88F	

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COZ073-076>081-092-211800-
SOUTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
PUEBLO	PTSUNNY	77	46	33	SE15G21	29.75F	
LA JUNTA	PTSUNNY	78	46	32	S28G37	29.80F	
LAMAR	CLOUDY	78	45	30	S35G48	29.84F	
SPRINGFIELD	N/A	71	46	40	S30G37	29.93F	

COLORADO STATE WEATHER ROUNDUP
NATIONAL WEATHER SERVICE DENVER CO
1200 PM MDT TUE MAY 21 2002

NOTE: "FAIR" INDICATES FEW OR NO CLOUDS BELOW 12000 FEET WITH NO
SIGNIFICANT WEATHER AND/OR OBSTRUCTIONS TO VISIBILITY.

COZ001>005-013-030-031-211900-
NORTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
CRAIG	PTSUNNY	70	25	18	SW30G36	29.59F	
HAYDEN	MOSUNNY	66	27	22	MISG	29.60F	
MEEKER	PTSUNNY	66	21	18	SW25G32	29.64S	

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COZ006>008-011-211900-
WEST CENTRAL VALLEYS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GRAND JUNCTION	CLOUDY	60	32	34	W31G39	29.73R	
MONTROSE	PTSUNNY	71	19	14	SW30G39	29.68S	
EAGLE	MOSUNNY	75	21	13	SW41G49	29.62F	
RIFLE	CLOUDY	72	20	14	SW26G35	29.60S	

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COZ017>023-211900-
SOUTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DURANGO	PTSUNNY	67	22	18	SW21G30	29.86F	
CORTEZ	PTSUNNY	66	21	18	SW36G44	29.86R	HAZE
TELLURIDE	FAIR	52	18	25	S8G39	29.90R	
WOLF CREEK PAS	PTSUNNY	45	25	45	S23G55	30.03S	

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COZ009-010-012-014-032-033-034-037-058-059-069-211900-
CENTRAL COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ASPEN	MOSUNNY	69	19	15	S25G40	29.70F	
COPPER MTN	FAIR	45	19	36	SE31G55	29.94F	
GUNNISON	PTSUNNY	66	16	14	SW26G52	29.78F	
LEADVILLE	MOSUNNY	58	19	22	SE18G36	29.83F	
MONARCH PASS	FAIR	46	14	27	SE31G52	30.10F	
NIWOT RIDGE	FAIR	46	25	42	S25G36	30.00F	

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COZ060>066-211900-
SAN LUIS VALLEY/SANGRE DE CRISTO MOUNTAINS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ALAMOSA	MOSUNNY	70	17	13	S38G47	29.87F	
LA VETA PASS	FAIR	61	23	23	SW36G58	30.01F	

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COZ035-036-038>040-211900-

NORTHERN COLORADO FRONT RANGE

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DENVER INTL AP	CLOUDY	78	38	23	S32G39	29.66F	
AURORA	PTSUNNY	77	39	25	S37G46	29.68F	
ENGLEWOOD	CLOUDY	73	41	31	SE33G43	29.68F	
BROOMFIELD	PTSUNNY	66	52	59	N15	29.68F	FOG
LOVELAND	FAIR	61	45	55	NW5	29.67F	

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COZ041-046-047-067-068-070>072-074-075-211900-

PIKES PEAK/PALMER DIVIDE AND SOUTHERN FOOTHILLS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
COLO. SPRINGS	CLOUDY	71	43	36	S14	29.79F	
A. F. ACADEMY	PTSUNNY	66	41	39	S20G26	29.78F	
FORT CARSON	PTSUNNY	73	41	31	S12	29.76F	
LIMON	CLOUDY	75	45	34	S32G40	29.79F	
MONUMENT HILL	FAIR	68	45	42	S29G39	29.79F	
TRINIDAD	CLOUDY	74	40	29	S29G35	29.85F	

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COZ042>045-048>051-090-091-211900-

NORTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GREELEY ARPT	FAIR	77	48	36	SE25G32	29.63F	
AKRON	CLOUDY	74	44	34	S32G43	29.76F	
BURLINGTON	CLOUDY	72	45	37	S36G47	29.84F	

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COZ073-076>081-092-211900-

SOUTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
PUEBLO	CLOUDY	84	36	18	SE24G32	29.68F	
LA JUNTA	CLOUDY	80	46	30	SE33G41	29.75F	
LAMAR	CLOUDY	82	46	28	S38G46	29.80F	
SPRINGFIELD	N/A	75	46	35	S31G44	29.90F	

COLORADO STATE WEATHER ROUNDUP
NATIONAL WEATHER SERVICE DENVER CO
100 PM MDT TUE MAY 21 2002

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COZ001>005-013-030-031-212000-

NORTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
CRAIG	CLOUDY	68	26	20	W25G38	29.62R	
HAYDEN	CLOUDY	68	27	21	MISG	29.61R	
MEEKER	PTSUNNY	60	28	29	W29G41	29.68R	

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COZ006>008-011-212000-

WEST CENTRAL VALLEYS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
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GRAND JUNCTION	CLOUDY	64	25	22	W23G33	29.72F
MONTROSE	PTSUNNY	68	20	16	W25G41	29.70R
EAGLE	PTSUNNY	70	23	17	W33G41	29.64R
RIFLE	CLOUDY	66	27	23	W39G51	29.63R

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COZ017>023-212000-

SOUTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DURANGO	MOSUNNY	68	21	16	SW32G43	29.86S	
CORTEZ	PTSUNNY	65	15	14	SW26G40	29.87R	
TELLURIDE	FAIR	51	16	25	SE28G53	29.85F	

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COZ009-010-012-014-032-033-034-037-058-059-069-212000-

CENTRAL COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ASPEN	PTSUNNY	67	18	15	S35G41	29.68F	
COPPER MTN	PTSUNNY	48	16	27	SE53G68	29.82F	
GUNNISON	PTSUNNY	66	16	14	SW30G46	29.76F	
LEADVILLE	PTSUNNY	60	13	15	S25G35	29.80F	
MONARCH PASS	FAIR	52	10	19	S45G59	30.09F	
NIWOT RIDGE	PTSUNNY	50	25	37	S32G41	29.95F	

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COZ060>066-212000-

SAN LUIS VALLEY/SANGRE DE CRISTO MOUNTAINS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ALAMOSA	PTSUNNY	73	21	14	S38G51	29.82F	
LA VETA PASS	FAIR	61	19	20	SW38G58	29.99S	

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COZ035-036-038>040-212000-

NORTHERN COLORADO FRONT RANGE

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DENVER INTL AP	CLOUDY	77	37	23	S33G45	29.61F	
AURORA	PTSUNNY	77	32	19	S37G43	29.61F	
ENGLEWOOD	CLOUDY	75	35	23	SE29G38	29.63F	
BROOMFIELD	PTSUNNY	66	50	55	NW12	29.63F	
LOVELAND	FAIR	64	45	48	CALM	29.60F	

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COZ041-046-047-067-068-070>072-074-075-212000-

PIKES PEAK/PALMER DIVIDE AND SOUTHERN FOOTHILLS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
COLO. SPRINGS	CLOUDY	77	29	17	S32G41	29.70F	
A. F. ACADEMY	PTSUNNY	70	41	35	SE18G29	29.69F	
FORT CARSON	PTSUNNY	81	27	13	S29G36	29.67F	
LIMON	CLOUDY	78	41	26	S32G41	29.75F	
MONUMENT HILL	FAIR	72	39	30	S29G40	29.73F	
TRINIDAD	PTSUNNY	77	37	23	S32G45	29.80F	

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COZ042>045-048>051-090-091-212000-

NORTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GREELEY ARPT	FAIR	81	46	30	SE29G40	29.58F	

AKRON	CLOUDY	78	43	28	S39G54	29.72F
BURLINGTON	CLOUDY	76	46	34	S37G49	29.80F

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COZ073-076>081-092-212000-
SOUTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
PUEBLO	CLOUDY	85	34	16	SE22G31	29.64F	
LA JUNTA	CLOUDY	85	42	22	S35G40	29.71F	
LAMAR	CLOUDY	82	46	28	S35G47	29.78F	
SPRINGFIELD	N/A	77	44	30	S33G48	29.85F	

COLORADO STATE WEATHER ROUNDUP
NATIONAL WEATHER SERVICE DENVER CO
200 PM MDT TUE MAY 21 2002

NOTE: "FAIR" INDICATES FEW OR NO CLOUDS BELOW 12000 FEET WITH NO SIGNIFICANT WEATHER AND/OR OBSTRUCTIONS TO VISIBILITY.

COZ001>005-013-030-031-212100-
NORTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
CRAIG	CLOUDY	56	31	38	W32G41	29.71R	
HAYDEN	PTSUNNY	55	28	35	MISG	29.69R	
MEEKER	CLOUDY	54	28	36	W26G35	29.73R	

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COZ006>008-011-212100-
WEST CENTRAL VALLEYS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GRAND JUNCTION	PTSUNNY	70	-1	6	SW32G45	29.73R	
MONTROSE	PTSUNNY	65	19	17	W37G46	29.73R	HAZE
EAGLE	PTSUNNY	66	23	19	W30G36	29.65S	
RIFLE	PTSUNNY	61	26	26	W23G40	29.70R	

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COZ017>023-212100-
SOUTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DURANGO	MOSUNNY	69	21	16	SW29G37	29.84F	
CORTEZ	MOSUNNY	64	11	12	W26G37	29.88R	
TELLURIDE	FAIR	52	18	25	S21G41	29.86S	
WOLF CREEK PAS	PTSUNNY	45	25	45	SW28G48	29.98F	THUNDER

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COZ009-010-012-014-032-033-034-037-058-059-069-212100-
CENTRAL COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ASPEN	PTSUNNY	67	18	15	SW21G46	29.67F	
COPPER MTN	PTSUNNY	48	10	21	CALM	29.88S	
GUNNISON	PTSUNNY	66	16	14	S22G33	29.76S	
LEADVILLE	PTSUNNY	60	12	15	S32G53	29.79F	
MONARCH PASS	PTSUNNY	48	10	21	S49G63	30.07F	
NIWOT RIDGE	PTSUNNY	50	21	32	S43G54	29.92F	

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COZ060>066-212100-

SAN LUIS VALLEY/SANGRE DE CRISTO MOUNTAINS
 CITY SKY/WX TMP DP RH WIND PRES REMARKS
 ALAMOSA MOSUNNY 75 20 12 S33G52 29.80F
 LA VETA PASS FAIR 63 19 19 W43G64 29.95F
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COZ035-036-038>040-212100-
 NORTHERN COLORADO FRONT RANGE
 CITY SKY/WX TMP DP RH WIND PRES REMARKS
 DENVER INTL AP CLOUDY 81 32 17 S33G45 29.56F
 AURORA PTSUNNY 81 21 11 S35G48 29.55F
 ENGLEWOOD CLOUDY 81 32 17 S31G40 29.58F
 BROOMFIELD CLOUDY 81 36 19 SE23G37 29.54F
 LOVELAND FAIR 70 46 43 W5 29.53F
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COZ041-046-047-067-068-070>072-074-075-212100-
 PIKES PEAK/PALMER DIVIDE AND SOUTHERN FOOTHILLS
 CITY SKY/WX TMP DP RH WIND PRES REMARKS
 COLO. SPRINGS CLOUDY 79 32 18 S35G44 29.65F
 FORT CARSON PTSUNNY 81 28 15 S35G46 29.63F
 LIMON CLOUDY 79 40 24 S40G51 29.69F
 MONUMENT HILL FAIR 72 36 26 S31G47 29.67F
 TRINIDAD CLOUDY 82 33 17 S48G59 29.72F HAZE
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COZ042>045-048>051-090-091-212100-
 NORTHEAST COLORADO
 CITY SKY/WX TMP DP RH WIND PRES REMARKS
 GREELEY ARPT FAIR 84 43 23 SE40G49 29.53F
 AKRON CLOUDY 78 43 28 S37G51 29.67F
 BURLINGTON CLOUDY 77 46 33 S31G49 29.76F HAZE
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COZ073-076>081-092-212100-
 SOUTHEAST COLORADO
 CITY SKY/WX TMP DP RH WIND PRES REMARKS
 PUEBLO CLOUDY 84 37 18 SE28G39 29.60F
 LA JUNTA PTSUNNY 85 41 21 S36G46 29.68F
 LAMAR CLOUDY 85 45 24 S36G49 29.74F
 SPRINGFIELD N/A 80 45 28 S35G48 29.82F

COLORADO STATE WEATHER ROUNDUP
 NATIONAL WEATHER SERVICE DENVER CO
 300 PM MDT TUE MAY 21 2002

NOTE: "FAIR" INDICATES FEW OR NO CLOUDS BELOW 12000 FEET WITH NO
 SIGNIFICANT WEATHER AND/OR OBSTRUCTIONS TO VISIBILITY.

COZ001>005-013-030-031-212200-
 NORTHWEST COLORADO
 CITY SKY/WX TMP DP RH WIND PRES REMARKS
 CRAIG LGT RAIN 53 30 41 SW33G45 29.75R
 HAYDEN PTSUNNY 54 30 40 MISG 29.75R
 MEEKER PTSUNNY 56 16 20 SW18G30 29.74R
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COZ006>008-011-212200-

WEST CENTRAL VALLEYS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GRAND JUNCTION	PTSUNNY	67	0	7	W32G40	29.75R	
MONTROSE	PTSUNNY	64	8	11	SW35G55	29.73S	HAZE
EAGLE	CLOUDY	63	23	22	W28G45	29.71R	
RIFLE	CLOUDY	63	14	15	SW24G33	29.70S	

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COZ017>023-212200-

SOUTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DURANGO	MOSUNNY	67	18	15	W24G33	29.85R	
CORTEZ	MOSUNNY	63	3	9	SW24G31	29.89R	
TELLURIDE	FAIR	52	16	24	SW24G38	29.89R	

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COZ009-010-012-014-032-033-034-037-058-059-069-212200-

CENTRAL COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ASPEN	PTSUNNY	59	21	23	SW20G30	29.71R	
COPPER MTN	PTSUNNY	45	10	24	CALM	29.89R	
GUNNISON	PTSUNNY	64	12	13	S26G46	29.75S	
LEADVILLE	PTSUNNY	59	12	15	SW31G43	29.78F	
MONARCH PASS	PTSUNNY	46	10	23	S48G60	30.05F	
NIWOT RIDGE	FAIR	54	19	26	S33G45	29.89F	

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COZ060>066-212200-

SAN LUIS VALLEY/SANGRE DE CRISTO MOUNTAINS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ALAMOSA	MOSUNNY	74	14	10	S31G46	29.78F	
LA VETA PASS	FAIR	61	18	18	W48G63	29.93F	

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COZ035-036-038>040-212200-

NORTHERN COLORADO FRONT RANGE

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DENVER INTL AP	CLOUDY	84	29	13	S32G52	29.49F	
AURORA	MOSUNNY	84	19	9	S37G49	29.49F	
ENGLEWOOD	CLOUDY	83	24	11	S30G40	29.51F	
BROOMFIELD	CLOUDY	82	30	15	SE29G37	29.46F	
LOVELAND	FAIR	84	30	14	S31G45	29.42F	

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COZ041-046-047-067-068-070>072-074-075-212200-

PIKES PEAK/PALMER DIVIDE AND SOUTHERN FOOTHILLS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
COLO. SPRINGS	CLOUDY	79	33	19	S39G53	29.62F	
A. F. ACADEMY	PTSUNNY	81	23	12	S40G59	29.56F	
FORT CARSON	PTSUNNY	81	32	17	S35G40	29.60F	
LIMON	CLOUDY	80	34	19	S38G53	29.64F	
MONUMENT HILL	FAIR	77	37	24	S41G52	29.64S	
TRINIDAD	NOT AVBL						

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NORTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GREELEY ARPT	FAIR	88	37	16	S24G51	29.46F	
AKRON	CLOUDY	79	43	27	S45G54	29.62F	HAZE
BURLINGTON	CLOUDY	77	45	32	S43G54	29.72F	HAZE

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COZ073-076>081-092-212200-

SOUTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
PUEBLO	CLOUDY	88	35	15	SE30G40	29.55F	
LA JUNTA	CLOUDY	84	39	20	S38G51	29.64F	
LAMAR	CLOUDY	84	44	24	S39G49	29.70F	HAZE
SPRINGFIELD	N/A	80	44	27	S36G48	29.76F	

COLORADO STATE WEATHER ROUNDUP
 NATIONAL WEATHER SERVICE DENVER CO
 400 PM MDT TUE MAY 21 2002

NOTE: "FAIR" INDICATES FEW OR NO CLOUDS BELOW 12000 FEET WITH NO SIGNIFICANT WEATHER AND/OR OBSTRUCTIONS TO VISIBILITY.

COZ001>005-013-030-031-212300-

NORTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
CRAIG	CLOUDY	53	19	26	SW36G40	29.75S	
HAYDEN	PTSUNNY	50	27	40	MISG	29.80R	
MEEKER	CLOUDY	57	3	11	SW21G30	29.75R	

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COZ006>008-011-212300-

WEST CENTRAL VALLEYS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GRAND JUNCTION	MOSUNNY	66	0	7	W29G36	29.76R	
MONTROSE	PTSUNNY	63	1	8	W38G46	29.75R	HAZE
EAGLE	PTSUNNY	59	23	25	W29G38	29.77R	
RIFLE	CLOUDY	63	1	8	W22G31	29.72R	

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COZ017>023-212300-

SOUTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DURANGO	SUNNY	65	11	12	W22G32	29.85S	
CORTEZ	SUNNY	62	2	9	W23G31	29.89S	
TELLURIDE	FAIR	48	7	19	SW14G37	29.90R	

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COZ009-010-012-014-032-033-034-037-058-059-069-212300-

CENTRAL COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ASPEN	PTSUNNY	54	23	30	W22G31	29.75R	
COPPER MTN	PTSUNNY	43	7	22	CALM	29.85F	
GUNNISON	NOT AVBL						
LEADVILLE	PTSUNNY	58	10	15	S23G39	29.77F	
NIWOT RIDGE	CLOUDY	48	18	29	S31G44	29.85F	

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COZ060>066-212300-

SAN LUIS VALLEY/SANGRE DE CRISTO MOUNTAINS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ALAMOSA	MOSUNNY	73	15	11	S39G53	29.74F	
LA VETA PASS	FAIR	63	16	16	SW41G59	29.91F	

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COZ035-036-038>040-212300-

NORTHERN COLORADO FRONT RANGE

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DENVER INTL AP	PTSUNNY	86	29	12	S39G53	29.44F	
AURORA	MOSUNNY	86	18	8	S37G49	29.45F	BLWGDUST
ENGLEWOOD	MOSUNNY	84	23	10	S37G45	29.47F	
BROOMFIELD	CLOUDY	86	25	10	SE23G37	29.42F	
LOVELAND	FAIR	84	27	12	SE33G43	29.35F	

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COZ041-046-047-067-068-070>072-074-075-212300-

PIKES PEAK/PALMER DIVIDE AND SOUTHERN FOOTHILLS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
COLO. SPRINGS	PTSUNNY	79	31	17	S38G45	29.59F	
A. F. ACADEMY	PTSUNNY	81	19	10	S33G45	29.55F	
FORT CARSON	PTSUNNY	82	19	9	S30G46	29.56F	
LIMON	CLOUDY	81	37	20	S44G59	29.62F	
MONUMENT HILL	FAIR	77	37	24	S45G58	29.60F	
TRINIDAD	PTSUNNY	82	39	21	S44G56	29.68	

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COZ042>045-048>051-090-091-212300-

NORTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GREELEY ARPT	FAIR	90	32	12	SE32G54	29.40F	
AKRON	CLOUDY	78	41	26	S45G60	29.60F	HAZE
BURLINGTON	CLOUDY	78	44	29	S44G54	29.67F	HAZE

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COZ073-076>081-092-212300-

SOUTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
PUEBLO	PTSUNNY	88	37	16	SE36G47	29.50F	HAZE
LA JUNTA	CLOUDY	84	41	21	S44G55	29.60F	
LAMAR	CLOUDY	84	43	23	S38G53	29.67F	HAZE
SPRINGFIELD	N/A	80	45	28	S36G51	29.72F	

COLORADO STATE WEATHER ROUNDUP
NATIONAL WEATHER SERVICE DENVER CO
500 PM MDT TUE MAY 21 2002

NOTE: "FAIR" INDICATES FEW OR NO CLOUDS BELOW 12000 FEET WITH NO SIGNIFICANT WEATHER AND/OR OBSTRUCTIONS TO VISIBILITY.

COZ001>005-013-030-031-220000-

NORTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
CRAIG	PTSUNNY	57	13	17	SW22G28	29.73F	
HAYDEN	PTSUNNY	52	16	24	MISG	29.79S	
MEEKER	PTSUNNY	58	1	10	SW22G36	29.76R	

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COZ006>008-011-220000-

WEST CENTRAL VALLEYS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GRAND JUNCTION	MOSUNNY	65	-2	7	SW23G26	29.78R	
MONTROSE	MOSUNNY	63	-1	7	W25G40	29.80R	
EAGLE	PTSUNNY	57	12	17	SW26G41	29.78R	
RIFLE	CLOUDY	64	1	8	W23G38	29.73R	

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COZ017>023-220000-

SOUTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DURANGO	MOSUNNY	63	5	10	W26G36	29.85S	
CORTEZ	SUNNY	62	1	8	W22G33	29.88F	
TELLURIDE	FAIR	46	1	15	SW10G24	29.92R	
WOLF CREEK PAS	FAIR	39	21	48	SW29G56	29.96S	

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COZ009-010-012-014-032-033-034-037-058-059-069-220000-

CENTRAL COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ASPEN	PTSUNNY	54	16	22	SW14G23	29.78R	
COPPER MTN	PTSUNNY	41	7	24	CALM	29.90R	
GUNNISON	NOT AVBL						
LEADVILLE	CLOUDY	54	12	18	S31G40	29.77S	
NIWOT RIDGE	CLOUDY	39	21	48	W25G31	29.89S	

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COZ060>066-220000-

SAN LUIS VALLEY/SANGRE DE CRISTO MOUNTAINS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ALAMOSA	MOSUNNY	73	16	11	SW32G45	29.73F	
LA VETA PASS	FAIR	61	18	18	W44G58	29.90F	

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COZ035-036-038>040-220000-

NORTHERN COLORADO FRONT RANGE

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DENVER INTL AP	MOSUNNY	84	28	13	S43G56	29.42F	
AURORA	PTSUNNY	82	25	12	S45G54	29.44F	BLWGDUST
ENGLEWOOD	PTSUNNY	81	21	11	S35G43	29.46F	
BROOMFIELD	CLOUDY	81	21	11	S28G35	29.43R	
LOVELAND	FAIR	86	25	10	S25G33	29.34S	

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COZ041-046-047-067-068-070>072-074-075-220000-

PIKES PEAK/PALMER DIVIDE AND SOUTHERN FOOTHILLS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
COLO. SPRINGS	MOSUNNY	82	28	14	SW33G47	29.56F	
A. F. ACADEMY	PTSUNNY	79	14	8	S35G45	29.52F	
FORT CARSON	PTSUNNY	82	16	8	S30G43	29.53F	
LIMON	PTSUNNY	79	37	22	S48G56	29.59F	
MONUMENT HILL	CLOUDY	75	39	27	SE41G54	29.57F	HAZE
TRINIDAD	MOSUNNY	82	40	22	S44G59	29.65F	

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COZ042>045-048>051-090-091-220000-
NORTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GREELEY ARPT	FAIR	88	32	13	S31G43	29.36F	
AKRON	CLOUDY	79	40	24	S44G59	29.57F	HAZE
BURLINGTON	CLOUDY	76	44	32	S39G53	29.66F	HAZE

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COZ073-076>081-092-220000-
SOUTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
PUEBLO	MOSUNNY	90	27	10	S29G43	29.49F	
LA JUNTA	CLOUDY	87	41	19	S44G53	29.56F	
LAMAR	CLOUDY	82	45	27	S32G47	29.64F	
SPRINGFIELD	N/A	79	46	31	S36G49	29.71F	

COLORADO STATE WEATHER ROUNDUP
NATIONAL WEATHER SERVICE DENVER CO
600 PM MDT TUE MAY 21 2002

NOTE: "FAIR" INDICATES FEW OR NO CLOUDS BELOW 12000 FEET WITH NO
SIGNIFICANT WEATHER AND/OR OBSTRUCTIONS TO VISIBILITY.

COZ001>005-013-030-031-220100-
NORTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
CRAIG	PTSUNNY	54	3	12	SW22G35	29.75R	
HAYDEN	PTSUNNY	54	9	16	MISG	29.77S	
MEEKER	MOSUNNY	56	1	10	SW23G35	29.78R	

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COZ006>008-011-220100-
WEST CENTRAL VALLEYS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GRAND JUNCTION	MOSUNNY	62	11	13	W24G32	29.81R	
MONTROSE	MOSUNNY	61	-2	8	SW21G29	29.84R	
EAGLE	CLOUDY	57	9	14	SW30G40	29.79R	
RIFLE	PTSUNNY	62	0	8	SW22G35	29.76R	

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COZ017>023-220100-
SOUTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DURANGO	SUNNY	61	2	9	W21G33	29.85S	
CORTEZ	SUNNY	61	0	8	SW15G28	29.89R	
WOLF CREEK PAS	FAIR	37	18	44	SW36G52	29.98R	

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COZ009-010-012-014-032-033-034-037-058-059-069-220100-
CENTRAL COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ASPEN	PTSUNNY	53	7	15	SW12G21	29.81R	
COPPER MTN	PTSUNNY	30	18	59	CALM	29.89F	
GUNNISON	N/A	55	12	18	W21G29	29.82	
LEADVILLE	PTSUNNY	49	17	28	W17G29	29.80R	
MONARCH PASS	PTSUNNY	43	7	22	SW63G74	29.97F	

NIWOT RIDGE CLOUDY 34 23 64 W33G40 29.87F HAZE WCI 19
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COZ060>066-220100-

SAN LUIS VALLEY/SANGRE DE CRISTO MOUNTAINS
CITY SKY/WX TMP DP RH WIND PRES REMARKS
ALAMOSA MOSUNNY 69 16 13 SW32G39 29.74R
LA VETA PASS FAIR 55 18 22 SW30G51 29.90F
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COZ035-036-038>040-220100-

NORTHERN COLORADO FRONT RANGE
CITY SKY/WX TMP DP RH WIND PRES REMARKS
DENVER INTL AP PTSUNNY 83 17 8 SW37G52 29.41F BLWGDUST
AURORA PTSUNNY 82 9 6 S36G46 29.43F BLWGDUST
ENGLEWOOD PTSUNNY 78 18 10 S31G49 29.46S
BROOMFIELD PTSUNNY 79 19 11 S25G35 29.43S
LOVELAND FAIR 81 27 13 W16G22 29.39R
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COZ041-046-047-067-068-070>072-074-075-220100-

PIKES PEAK/PALMER DIVIDE AND SOUTHERN FOOTHILLS
CITY SKY/WX TMP DP RH WIND PRES REMARKS
COLO. SPRINGS MOSUNNY 77 23 13 SW33G47 29.56S
A. F. ACADEMY PTSUNNY 75 16 10 S23G36 29.52S
FORT CARSON NOT AVBL
LIMON SUNNY 79 35 20 S40G54 29.56F
MONUMENT HILL FAIR 73 27 17 S37G49 29.57S
TRINIDAD SUNNY 82 40 22 S41G55 29.62F
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COZ042>045-048>051-090-091-220100-

NORTHEAST COLORADO
CITY SKY/WX TMP DP RH WIND PRES REMARKS
GREELEY ARPT FAIR 84 30 14 S30G45 29.36R
AKRON CLOUDY 79 41 25 S39G53 29.54F HAZE
BURLINGTON CLOUDY 76 45 33 S48G59 29.64F HAZE
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COZ073-076>081-092-220100-

SOUTHEAST COLORADO
CITY SKY/WX TMP DP RH WIND PRES REMARKS
PUEBLO SUNNY 88 26 10 S31G43 29.48F
LA JUNTA PTSUNNY 86 41 20 S37G49 29.55F
LAMAR PTSUNNY 83 47 28 S36G47 29.62F HAZE
SPRINGFIELD N/A 79 47 32 S37G55 29.68F

COLORADO STATE WEATHER ROUNDUP
NATIONAL WEATHER SERVICE DENVER CO
700 PM MDT TUE MAY 21 2002

NOTE: "FAIR" INDICATES FEW OR NO CLOUDS BELOW 12000 FEET WITH NO
SIGNIFICANT WEATHER AND/OR OBSTRUCTIONS TO VISIBILITY.

COZ001>005-013-030-031-220200-

NORTHWEST COLORADO
CITY SKY/WX TMP DP RH WIND PRES REMARKS

CRAIG	PTSUNNY	53	5	14	SW26G39	29.78R
HAYDEN	PTSUNNY	52	5	15	MISG	29.78R
MEEKER	MOSUNNY	53	6	15	SW28G37	29.81R

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COZ006>008-011-220200-
WEST CENTRAL VALLEYS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GRAND JUNCTION	MOSUNNY	60	11	14	W22G33	29.83R	
MONTROSE	MOSUNNY	59	-1	9	SW17G28	29.85R	
EAGLE	PTSUNNY	55	5	13	SW22G35	29.81R	
RIFLE	PTSUNNY	60	2	9	W20G32	29.80R	

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COZ017>023-220200-
SOUTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DURANGO	SUNNY	57	1	10	W17G26	29.86R	
CORTEZ	SUNNY	59	3	10	W18G26	29.89S	
TELLURIDE	FAIR	43	-6	13	SW16G30	29.96R	
WOLF CREEK PAS	FAIR	34	12	40	SW24G41	29.99R	WCI 21

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COZ009-010-012-014-032-033-034-037-058-059-069-220200-
CENTRAL COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ASPEN	PTSUNNY	50	3	14	SW13G26	29.83R	
COPPER MTN	CLOUDY	28	12	50	CALM	29.94R	
GUNNISON	MOSUNNY	54	1	12	W22G31	29.86R	
LEADVILLE	PTSUNNY	41	6	23	NW17G25	29.85R	
MONARCH PASS	FAIR	36	3	25	SW45G55	30.04R	
NIWOT RIDGE	FAIR	32	19	59	W36G47	29.87S	HAZE WCI 16

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COZ060>066-220200-
SAN LUIS VALLEY/SANGRE DE CRISTO MOUNTAINS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ALAMOSA	SUNNY	64	11	12	SW30G44	29.76R	
LA VETA PASS	PTSUNNY	55	19	24	W35G49	29.90S	

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COZ035-036-038>040-220200-
NORTHERN COLORADO FRONT RANGE

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DENVER INTL AP	PTSUNNY	80	16	9	S26G38	29.42R	
AURORA	PTSUNNY	81	9	6	SW36G46	29.45R	BLWGDUST
ENGLEWOOD	PTSUNNY	79	17	10	S30G46	29.47R	
BROOMFIELD	PTSUNNY	72	27	18	W17	29.46R	
LOVELAND	FAIR	75	27	16	W13G18	29.42R	

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COZ041-046-047-067-068-070>072-074-075-220200-
PIKES PEAK/PALMER DIVIDE AND SOUTHERN FOOTHILLS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
COLO. SPRINGS	MOSUNNY	74	25	16	S31G41	29.57R	
FORT CARSON	NOT AVBL						
LIMON	SUNNY	79	33	19	S36G47	29.56S	

MONUMENT HILL FAIR 72 28 20 S36G41 29.59S
 TRINIDAD MOSUNNY 78 35 21 S29G47 29.63R
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COZ042>045-048>051-090-091-220200-
 NORTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GREELEY ARPT	FAIR	75	34	22	N25G31	29.40R	
AKRON	PTSUNNY	77	42	28	S44G55	29.52F	HAZE
BURLINGTON	CLOUDY	74	45	35	S41G58	29.63F	HAZE

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COZ073-076>081-092-220200-
 SOUTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
PUEBLO	SUNNY	85	22	10	S30G37	29.48S	
LA JUNTA	SUNNY	84	45	25	SE32G41	29.53F	
LAMAR	HAZE	81	48	31	S36G58	29.60F	VSB 1
SPRINGFIELD	N/A	75	48	38	SE36G53	29.68S	

COLORADO STATE WEATHER ROUNDUP
 NATIONAL WEATHER SERVICE DENVER CO
 800 PM MDT TUE MAY 21 2002

NOTE: "FAIR" INDICATES FEW OR NO CLOUDS BELOW 12000 FEET WITH NO SIGNIFICANT WEATHER AND/OR OBSTRUCTIONS TO VISIBILITY.

COZ001>005-013-030-031-220300-
 NORTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
CRAIG	PTCLDY	50	14	23	W24G32	29.82R	
HAYDEN	MOCLDY	48	7	18	MISG	29.82R	
MEEKER	PTCLDY	50	8	18	W23G29	29.84R	

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COZ006>008-011-220300-
 WEST CENTRAL VALLEYS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GRAND JUNCTION	PTCLDY	57	14	18	W17G23	29.85R	
MONTROSE	CLEAR	56	2	11	W16G22	29.87R	
EAGLE	MOCLDY	52	1	12	W25G32	29.84R	
RIFLE	PTCLDY	55	6	14	W18G25	29.83R	

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COZ017>023-220300-
 SOUTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DURANGO	CLEAR	53	3	13	W12G25	29.88R	
CORTEZ	CLEAR	56	3	11	W15	29.91R	
TELLURIDE	FAIR	40	-5	15	SW13	29.98R	
WOLF CREEK PAS	FAIR	30	9	40	SW24G43	30.00R	WCI 16

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COZ009-010-012-014-032-033-034-037-058-059-069-220300-
 CENTRAL COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ASPEN	PTCLDY	47	1	15	VRB7G21	29.86R	

COPPER MTN	FAIR	27	5	39	CALM	29.94S	
GUNNISON	CLEAR	48	-2	12	W14G24	29.88R	
LEADVILLE	PTCLDY	38	3	23	W18G22	29.88R	
MONARCH PASS	FAIR	30	-2	24	W38G48	30.08R	WCI 14
NIWOT RIDGE	FAIR	28	7	40	W40G52	29.88S	WCI 11

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COZ060>066-220300-

SAN LUIS VALLEY/SANGRE DE CRISTO MOUNTAINS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ALAMOSA	CLEAR	59	9	13	SW26G37	29.77R	
LA VETA PASS	FAIR	48	12	23	SW31G49	29.91R	

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COZ035-036-038>040-220300-

NORTHERN COLORADO FRONT RANGE

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DENVER INTL AP	MOCLDY	78	15	9	SW26G45	29.48R	
AURORA	MOCLDY	77	7	6	SW31G44	29.49R	BLWGDUST
ENGLEWOOD	MOCLDY	75	14	10	SW33G43	29.50R	
BROOMFIELD	PTCLDY	64	19	17	W28G35	29.50R	
LOVELAND	FAIR	66	23	19	W18G28	29.45R	

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COZ041-046-047-067-068-070>072-074-075-220300-

PIKES PEAK/PALMER DIVIDE AND SOUTHERN FOOTHILLS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
COLO. SPRINGS	MOCLDY	73	22	14	SW23G30	29.58R	
FORT CARSON	MOCLDY	75	18	11	SW22G39	29.56	
LIMON	CLEAR	74	44	34	SE39G52	29.56S	
MONUMENT HILL	FAIR	70	28	21	S28G44	29.59S	
TRINIDAD	PTCLDY	77	33	20	S35G45	29.63S	

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COZ042>045-048>051-090-091-220300-

NORTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GREELEY ARPT	FAIR	70	34	26	N21G26	29.46R	
AKRON	CLOUDY	74	44	34	S37G52	29.52S	HAZE
BURLINGTON	CLOUDY	71	47	42	S37G52	29.62F	HAZE

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COZ073-076>081-092-220300-

SOUTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
PUEBLO	MOCLDY	82	21	10	S30G36	29.49R	
LA JUNTA	CLEAR	80	48	32	S40G49	29.52F	
LAMAR	PTCLDY	76	48	37	S37G49	29.60S	HAZE
SPRINGFIELD	N/A	72	48	42	S40G52	29.69R	

NATIONAL WEATHER SERVICE DENVER CO
900 PM MDT TUE MAY 21 2002

NOTE: "FAIR" INDICATES FEW OR NO CLOUDS BELOW 12000 FEET WITH NO SIGNIFICANT WEATHER AND/OR OBSTRUCTIONS TO VISIBILITY.

COZ001>005-013-030-031-220400-

NORTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
CRAIG	CLEAR	46	18	32	W21G28	29.85R	
HAYDEN	PTCLDY	45	14	29	MISG	29.86R	
MEEKER	CLEAR	45	20	36	W22G35	29.88R	

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COZ006>008-011-220400-

WEST CENTRAL VALLEYS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GRAND JUNCTION	PTCLDY	51	18	27	N5	29.87R	
MONTROSE	CLEAR	52	2	13	W9	29.90R	
EAGLE	PTCLDY	48	3	15	W20G24	29.88R	
RIFLE	PTCLDY	53	7	15	SW18G28	29.85R	

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COZ017>023-220400-

SOUTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DURANGO	CLEAR	51	1	13	W14	29.91R	
CORTEZ	CLEAR	52	3	13	NW12	29.93R	
TELLURIDE	FAIR	37	-2	18	VRB5	29.99R	
WOLF CREEK PAS	FAIR	27	7	43	S20G33	30.01S	WCI 13

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COZ009-010-012-014-032-033-034-037-058-059-069-220400-

CENTRAL COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ASPEN	PTCLDY	44	-1	15	W7	29.88R	
COPPER MTN	FAIR	25	0	33	CALM	29.95R	
GUNNISON	CLEAR	46	-2	13	W10G18	29.90R	
LEADVILLE	PTCLDY	36	0	21	W12G21	29.90R	
MONARCH PASS	FAIR	27	-6	24	W36G45	30.09S	WCI 9
NIWOT RIDGE	FAIR	27	3	36	W33G51	29.91R	WCI 9

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COZ060>066-220400-

SAN LUIS VALLEY/SANGRE DE CRISTO MOUNTAINS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ALAMOSA	CLEAR	53	5	14	W23G31	29.81R	
LA VETA PASS	FAIR	46	10	23	SW30G47	29.93R	

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COZ035-036-038>040-220400-

NORTHERN COLORADO FRONT RANGE

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DENVER INTL AP	MOCLDY	64	18	17	NW21	29.55R	
AURORA	PTCLDY	72	12	10	NW8G23	29.55R	
ENGLEWOOD	MOCLDY	68	15	13	SW23G29	29.57R	
BROOMFIELD	MOCLDY	63	16	16	W24G32	29.54R	
LOVELAND	FAIR	64	16	15	E13G16	29.52R	

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COZ041-046-047-067-068-070>072-074-075-220400-

PIKES PEAK/PALMER DIVIDE AND SOUTHERN FOOTHILLS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
COLO. SPRINGS	PTCLDY	71	16	12	SW28G39	29.61R	

FORT CARSON	PTCLDY	72	12	10	SW26G36	29.61R
LIMON	PTCLDY	71	46	40	SE43G48	29.58R
MONUMENT HILL	FAIR	66	25	20	S24G32	29.63R
TRINIDAD	CLEAR	75	32	20	S30G43	29.64R

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COZ042>045-048>051-090-091-220400-

NORTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GREELEY ARPT	FAIR	63	30	29	NE12	29.53R	
AKRON	CLOUDY	70	45	40	S38G46	29.53R	
BURLINGTON	CLOUDY	68	47	46	S45G56	29.63R	HAZE

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COZ073-076>081-092-220400-

SOUTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
PUEBLO	PTCLDY	77	17	10	SW18	29.54R	
LA JUNTA	PTCLDY	77	49	37	S37G55	29.54R	
LAMAR	CLEAR	72	47	40	S41G49	29.60S	
SPRINGFIELD	N/A	69	49	48	S40G48	29.71R	

COLORADO STATE WEATHER ROUNDUP
 NATIONAL WEATHER SERVICE DENVER CO
 1000 PM MDT TUE MAY 21 2002

NOTE: "FAIR" INDICATES FEW OR NO CLOUDS BELOW 12000 FEET WITH NO SIGNIFICANT WEATHER AND/OR OBSTRUCTIONS TO VISIBILITY.

COZ001>005-013-030-031-220500-

NORTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
CRAIG	CLEAR	43	18	36	SW12	29.86R	
HAYDEN	CLEAR	41	18	38	MISG	29.87R	
MEEKER	CLEAR	40	18	41	CALM	29.88S	

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COZ006>008-011-220500-

WEST CENTRAL VALLEYS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GRAND JUNCTION	PTCLDY	51	18	27	NW14	29.88R	
MONTROSE	CLEAR	50	4	15	W7	29.92R	
EAGLE	PTCLDY	48	7	18	SW12G18	29.91R	
RIFLE	PTCLDY	51	12	21	W17G23	29.87R	

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COZ017>023-220500-

SOUTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DURANGO	CLEAR	47	4	17	W8	29.92R	
CORTEZ	CLEAR	49	4	16	W7	29.95R	
TELLURIDE	FAIR	36	0	21	W5	30.01R	
WOLF CREEK PAS	FAIR	27	5	39	SW24G30	30.02S	WCI 12

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COZ009-010-012-014-032-033-034-037-058-059-069-220500-

CENTRAL COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ASPEN	PTCLDY	41	2	19	CALM	29.90R	
COPPER MTN	FAIR	21	-2	35	CALM	29.95R	
GUNNISON	CLEAR	45	-2	14	W10	29.93R	
LEADVILLE	PTCLDY	34	-1	22	W16	29.90S	WCI 24
MONARCH PASS	FAIR	25	-8	24	W40G52	30.09R	WCI 6

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COZ060>066-220500-

SAN LUIS VALLEY/SANGRE DE CRISTO MOUNTAINS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ALAMOSA	CLEAR	48	1	14	VRB6	29.86R	
LA VETA PASS	FAIR	41	7	24	SW22G32	29.97R	

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COZ035-036-038>040-220500-

NORTHERN COLORADO FRONT RANGE

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DENVER INTL AP	MOCLDY	61	17	18	NW10	29.63R	
AURORA	CLEAR	64	14	14	W15	29.62R	
ENGLEWOOD	PTCLDY	62	11	13	SW24G33	29.63R	
BROOMFIELD	PTCLDY	59	10	14	W24G32	29.63R	
LOVELAND	FAIR	61	10	13	SW15G20	29.58R	

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COZ041-046-047-067-068-070>072-074-075-220500-

PIKES PEAK/PALMER DIVIDE AND SOUTHERN FOOTHILLS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
COLO. SPRINGS	CLEAR	66	9	10	W31G44	29.66R	
FORT CARSON	PTCLDY	66	9	10	W32G39	29.64R	
LIMON	PTCLDY	69	47	45	S35G54	29.62R	
MONUMENT HILL	FAIR	55	19	24	W17G23	29.71R	
TRINIDAD	CLEAR	72	28	19	SW18G29	29.68R	

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COZ042>045-048>051-090-091-220500-

NORTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GREELEY ARPT	FAIR	59	28	31	NE6	29.59R	
AKRON	CLOUDY	69	46	43	S38G48	29.56R	
BURLINGTON	PTCLDY	66	46	48	S39G51	29.64R	

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COZ073-076>081-092-220500-

SOUTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
PUEBLO	CLEAR	73	12	9	SW24G37	29.60R	
LA JUNTA	PTCLDY	75	50	41	S41G49	29.56R	
LAMAR	PTCLDY	72	50	45	S43G55	29.62R	HAZE
SPRINGFIELD	N/A	67	49	52	S32G47	29.74R	

COLORADO STATE WEATHER ROUNDUP
 NATIONAL WEATHER SERVICE DENVER CO
 1100 PM MDT TUE MAY 21 2002

NOTE: "FAIR" INDICATES FEW OR NO CLOUDS BELOW 12000 FEET WITH NO

SIGNIFICANT WEATHER AND/OR OBSTRUCTIONS TO VISIBILITY.

COZ001>005-013-030-031-220600-
NORTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
CRAIG	CLEAR	41	18	39	SW15	29.85F	
HAYDEN	CLEAR	39	16	38	MISG	29.87F	
MEEKER	MOCLDY	43	17	35	SW8	29.88S	

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COZ006>008-011-220600-
WEST CENTRAL VALLEYS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GRAND JUNCTION	PTCLDY	45	18	34	NW3	29.90R	
MONTROSE	PTCLDY	46	7	20	SW3	29.94R	
EAGLE	PTCLDY	46	10	23	SW12G20	29.92S	
RIFLE	PTCLDY	50	12	21	SW12	29.87S	

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COZ017>023-220600-
SOUTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DURANGO	CLEAR	45	4	18	W8	29.93R	
CORTEZ	CLEAR	40	8	26	CALM	29.96R	
TELLURIDE	FAIR	34	0	23	VRB7	30.02S	WCI 28
WOLF CREEK PAS	FAIR	25	5	42	SW21G31	30.03R	WCI 10

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COZ009-010-012-014-032-033-034-037-058-059-069-220600-
CENTRAL COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ASPEN	MOCLDY	40	9	28	VRB5	29.92R	
COPPER MTN	FAIR	19	-4	35	CALM	29.94F	
GUNNISON	CLEAR	43	1	17	SW7	29.95R	
LEADVILLE	CLEAR	32	-1	24	W15G21	29.91R	WCI 22
MONARCH PASS	FAIR	25	-6	26	W39G51	30.09S	WCI 6
NIWOT RIDGE	FAIR	23	1	39	W44G61	29.81F	WCI 3

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COZ060>066-220600-
SAN LUIS VALLEY/SANGRE DE CRISTO MOUNTAINS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ALAMOSA	CLEAR	47	-1	13	SW13	29.88R	
LA VETA PASS	FAIR	37	1	22	SW20G25	29.98R	

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COZ035-036-038>040-220600-
NORTHERN COLORADO FRONT RANGE

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DENVER INTL AP	PTCLDY	58	13	17	NW12	29.67R	
AURORA	CLEAR	61	9	12	W20	29.66R	
ENGLEWOOD	PTCLDY	57	8	14	SW15	29.67R	
LOVELAND	FAIR	57	9	14	NE7	29.63R	

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COZ041-046-047-067-068-070>072-074-075-220600-
PIKES PEAK/PALMER DIVIDE AND SOUTHERN FOOTHILLS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
COLO. SPRINGS	CLEAR	61	5	10	W29G37	29.69R	
FORT CARSON	CLEAR	64	7	10	W22	29.67R	
LIMON	PTCLDY	67	47	48	S23G38	29.65R	
MONUMENT HILL	FAIR	52	16	24	W22	29.73R	
TRINIDAD	CLEAR	67	21	17	W22	29.71R	

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COZ042>045-048>051-090-091-220600-
NORTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GREELEY ARPT	FAIR	54	27	35	SE6	29.64R	
AKRON	MOCLDY	68	47	46	S30G40	29.58R	
BURLINGTON	CLEAR	64	43	46	S39G49	29.62F	

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COZ073-076>081-092-220600-
SOUTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
PUEBLO	CLEAR	70	9	9	SW22G29	29.64R	
LA JUNTA	PTCLDY	72	50	45	S24G36	29.60R	
LAMAR	CLEAR	70	50	49	S40G53	29.62S	
SPRINGFIELD	N/A	65	50	58	S40G48	29.73F	

COLORADO STATE WEATHER ROUNDUP
NATIONAL WEATHER SERVICE DENVER CO
1200 AM MDT WED MAY 22 2002

NOTE: "FAIR" INDICATES FEW OR NO CLOUDS BELOW 12000 FEET WITH NO SIGNIFICANT WEATHER AND/OR OBSTRUCTIONS TO VISIBILITY.

COZ001>005-013-030-031-220700-
NORTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
CRAIG	PTCLDY	39	19	44	SW8	29.86R	
HAYDEN	CLEAR	39	16	38	MISG	29.87S	
MEEKER	PTCLDY	44	15	31	SW8	29.88S	

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COZ006>008-011-220700-
WEST CENTRAL VALLEYS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GRAND JUNCTION	PTCLDY	42	16	34	E3	29.90S	
MONTROSE	MOCLDY	41	11	29	VRB6	29.95R	
EAGLE	MOCLDY	46	12	25	SW12	29.92S	
RIFLE	PTCLDY	45	14	28	NE6	29.88R	

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COZ017>023-220700-
SOUTHWEST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DURANGO	CLEAR	44	5	20	W10	29.94R	
CORTEZ	CLEAR	35	9	33	NE7	29.97R	WCI 29
TELLURIDE	FAIR	34	-2	21	VRB6	30.02R	WCI 29
WOLF CREEK PAS	FAIR	21	3	45	SW18G29	30.03R	WCI 6

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COZ009-010-012-014-032-033-034-037-058-059-069-220700-
CENTRAL COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ASPEN	CLOUDY	40	11	30	CALM	29.92S	
COPPER MTN	FAIR	19	0	42	CALM	29.94S	
GUNNISON	PTCLDY	39	1	20	CALM	29.96R	
LEADVILLE	CLEAR	30	3	31	NW10	29.93R	WCI 21
MONARCH PASS	FAIR	21	-4	33	SW40G49	30.08S	WCI 1
NIWOT RIDGE	FAIR	21	3	45	W40G60	29.79S	WCI 1

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COZ060>066-220700-

SAN LUIS VALLEY/SANGRE DE CRISTO MOUNTAINS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
ALAMOSA	CLEAR	46	-2	13	SW18	29.90R	
LA VETA PASS	FAIR	36	0	21	SW30G40	29.98S	

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COZ035-036-038>040-220700-

NORTHERN COLORADO FRONT RANGE

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
DENVER INTL AP	PTCLDY	56	9	15	NW16G21	29.71R	
AURORA	CLEAR	55	10	16	W9	29.70R	
ENGLEWOOD	CLEAR	56	7	14	W14G20	29.71R	
LOVELAND	FAIR	52	10	19	W6	29.68R	

\$\$

COZ041-046-047-067-068-070>072-074-075-220700-

PIKES PEAK/PALMER DIVIDE AND SOUTHERN FOOTHILLS

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
COLO. SPRINGS	CLEAR	59	6	12	W23G29	29.70R	
FORT CARSON	CLEAR	59	3	10	W26G36	29.67S	
LIMON	MOCLDY	57	30	35	NW13	29.70R	
MONUMENT HILL	FAIR	52	14	22	W17G22	29.74R	
TRINIDAD	CLEAR	63	18	17	SW15	29.73R	

\$\$

COZ042>045-048>051-090-091-220700-

NORTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
GREELEY ARPT	FAIR	52	25	35	S9	29.69R	
AKRON	CLOUDY	56	31	38	N26G38	29.67R	
BURLINGTON	PTCLDY	62	44	51	S30G38	29.65R	

\$\$

COZ073-076>081-092-220700-

SOUTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
PUEBLO	CLEAR	62	10	13	W14	29.68R	
LA JUNTA	PTCLDY	73	50	44	SW20	29.66R	
LAMAR	CLEAR	69	51	52	S38G52	29.61F	
SPRINGFIELD	N/A	64	51	62	S33G45	29.73S	

3.0 Meteorological Data for the June 20, 2002 Event

On Thursday June 20, 2002, Lamar recorded exceedances of the twenty-four-hour PM10 standard with readings of 181 ug/m³ at the Power Plant site and 162 ug/m³ at the Municipal Building site. This is, perhaps, the first blowing dust exceedance in Colorado caused by outflow winds from a severe thunderstorm complex. As such, the meteorology of the episode does not have all of the characteristics commonly associated with blowing dust exceedances in Colorado.

Figure 1 shows the surface weather conditions in Colorado at 00Z on June 21 (**6 PM MDT on June 20, 2002**). This map shows that there were no well-organized surface low-pressure systems in or around Colorado. Such well-organized systems are usually present during a sustained period of blowing dust. The map, however, does show a line of strong thunderstorms from southeastern Colorado through New Mexico. The strongest storms are indicated by red markings. Severe thunderstorm warnings were issued for extreme southeastern Colorado during the evening of June 20. The storm which prompted this warning was located in Baca County near Springfield. Later in the evening, the Pueblo National Weather Service Forecast Office issued a high wind warning for southeastern Colorado. This was in response to very strong outflow winds from the storms in southeastern Colorado. The text of this warning is presented in Table 1.

While the warning addressed the possibility of high winds and blowing dust in Crowley, Bent, Otero, and Las Animas Counties, it did not mention neighboring Lamar in Prowers County. Strong winds from these storms, however, did affect Lamar. Table 2 shows wind and gust speeds for Lamar during the evening of June 20, 2002.

Sustained winds and gusts in Lamar exceeded blowing dust criteria. Wind speeds in excess of 30 mph and gusts in excess of 40 mph were recorded for several hours. These are the speed and gust thresholds for blowing dust that apply in southeastern Colorado when surface soils are dry (see reference for the *Natural Events Action Plan for High Wind Events – Lamar, Colorado* at the end of this document). The 30 mph blowing dust threshold applies to hourly average winds. Wind speed observations at stations like Lamar are made just prior to the reported hour of observation. In most cases, these recorded speeds are not hourly average speeds but represent a several-minute average. If these spot observations show that speeds are above the 30 mph threshold for successive hours, then it can be reasonably assumed that hourly average winds are also above 30 mph. Gusts of 47 to 56 mph were recorded for four of the observations during the evening. Nearby La Junta recorded wind speeds as high as 54 mph and gusts to 76 mph. Haze was also reported at La Junta, and this was probably associated with blowing dust.

Figure 2(a) shows the April 2002 precipitation for Lamar, Alamosa, Saguache, Salida, Colorado Springs, Rocky Ford, and Pueblo. Figure 2(b) shows the May 2002 precipitation at these stations, and Figure 2(c) shows the June 1 through 20, 2002, precipitation at these sites. Precipitation amounts were low to moderate at most sites. Lamar, however, received 1.42 inches between June 1 and June 20.

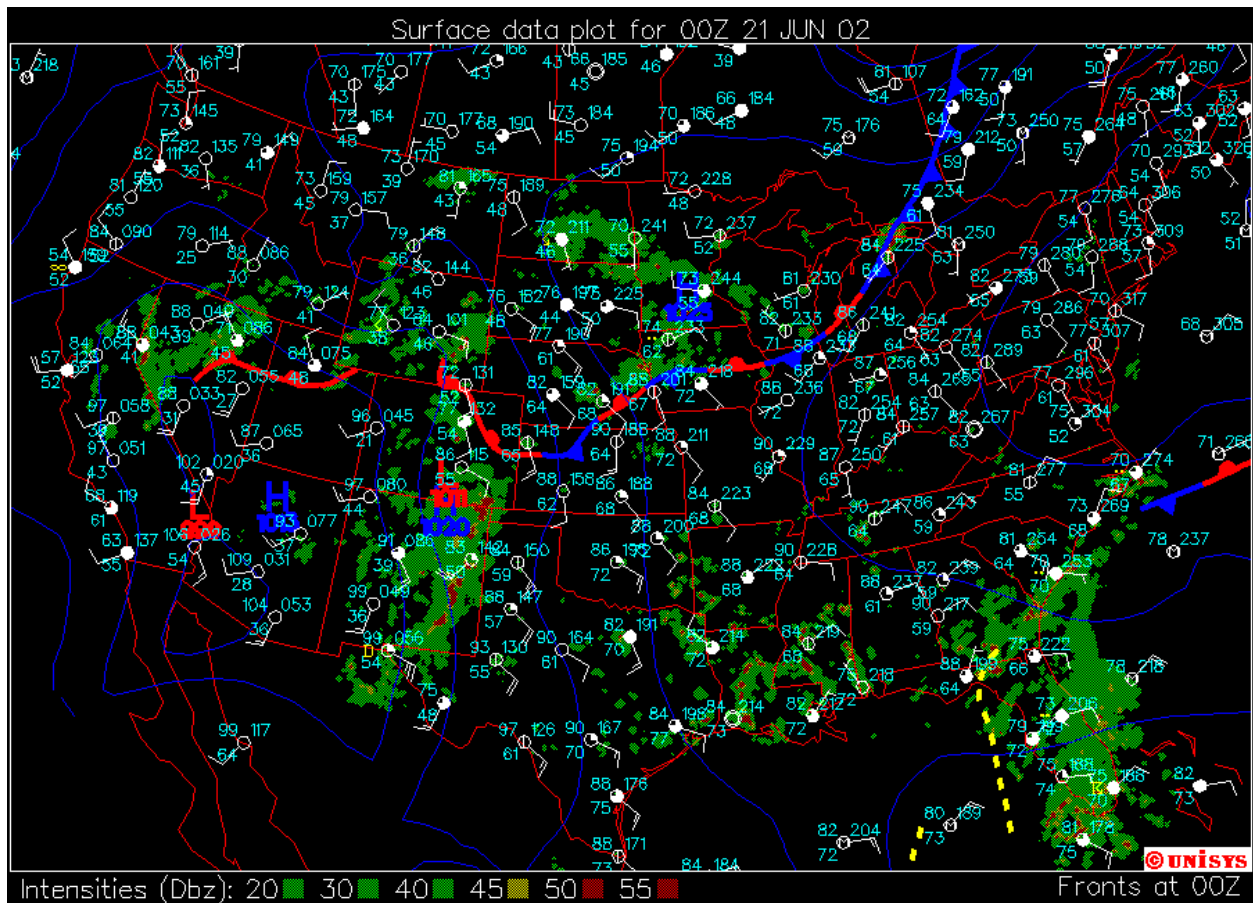


Figure 1. Surface weather features for 00Z June 21, 2002, or *6 PM MDT JUNE 20, 2002.*

Tables 3 through 5 show daily temperatures and precipitation for Lamar, Rocky Ford, and Holly for June 1 through 20. (No rain fell at these three sites on June 20.) These data show two things. The first is that localized storms dropped significant rains on some areas and little rain on others. Parched soils probably remained dry in much of the region. The second is that daily maximum temperatures were 100 degrees Fahrenheit or higher on eight days during the period. Many of the remaining days saw maximum temperatures in the nineties. It was hot enough for rapid drying of soils.

In addition, the area continued to be under the influence of a long-term drought. Figure 3 shows that the U.S. Drought Monitor had declared that an *extreme* drought was underway in much of southern Colorado including the area around Lamar. This designation was made on June 18 and was representative of conditions in place on June 20. Drought conditions can contribute to rapid runoff of storm water on some soils and effective dispersion of absorbed water into a deep layer of soil. The net result is that soils may be dryer after significant rains than they would be under non-drought conditions.

Reference

Colorado Department of Public Health and Environment, City of Lamar, Prowers County Commissioners, *Natural Events Action Plan for High Wind Events – Lamar, Colorado*, April 1998.

Table 1. High Wind Warning for Southeast Colorado on the Evening of June 20, 2002.

URGENT - WEATHER MESSAGE
 NATIONAL WEATHER SERVICE PUEBLO CO
 859 PM MDT THU JUN 20 2002

...STRONG WINDS EXPECTED OVER PORTIONS OF THE SOUTHEAST PLAINS...
 STRONG OUTFLOW FROM THUNDERSTORMS OVER THE SOUTHEAST COLORADO
 PLAINS...HAS BROUGHT VERY STRONG WINDS TO OTERO COUNTY...AND MAY
 ALSO BRING STRONG WINDS TO CROWLEY AND BENT COUNTIES.

COZ076-079-210457-
 BENT COUNTY/LAS ANIMAS AND VICINITY-
 CROWLEY AND OTERO COUNTIES/LA JUNTA AND VICINITY-
 INCLUDING...TIMPAS...SWINK...SUGAR CITY...ROCKY FORD...ORDWAY...
 OLNEY SPRINGS...MCCLAVE...MANZANOLA...LAS ANIMAS...
 JOHN MARTIN RESERVOIR...HASTY...FOWLER...FORT LYON...
 CROWLEY AND CHERAW
 859 PM MDT THU JUN 20 2002

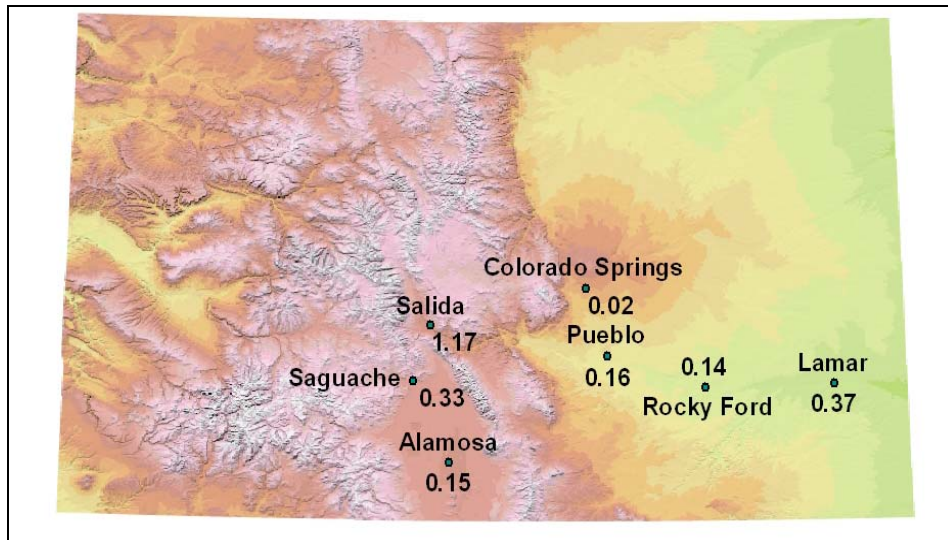
...HIGH WIND WARNING UNTIL 1100 PM...

WIND GUSTS TO BETWEEN 65 AND 75 MPH CAN BE EXPECTED...WITH SUSTAINED
 WINDS OF 45 TO 55 MPH.

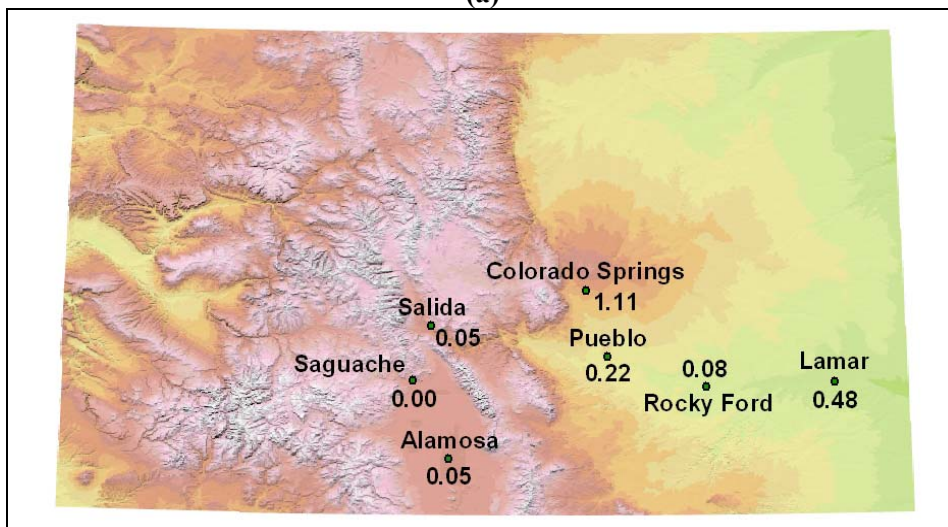
STRONG WINDS CAN CAUSE POWER DISRUPTIONS AND HAZARDS TO MOBILE
 HOMES...HIGH PROFILE VEHICLES...AND VEHICLES PULLING TRAILERS.
**BLOWING DUST CAN QUICKLY REDUCE VISIBILITY TO NEAR ZERO NEAR OPEN OR
 PLOWED LAND...WHICH CAN CAUSE VEHICLES TO SLOW DOWN AND CAUSE
 CHAIN-REACTION ACCIDENTS. BLOWING DUST OR SAND CAN ALSO BE A HEALTH
 HAZARD FOR THOSE WITH RESPIRATORY PROBLEMS. STAY INDOORS IF THERE IS
 BLOWING DUST OR SAND IN YOUR AREA...IF AT ALL POSSIBLE.**

Table 2. Wind observations for Lamar reported by the National Weather Service on June 20, 2002. Wind speeds or gusts at or above the blowing dust threshold are highlighted in bold and yellow.

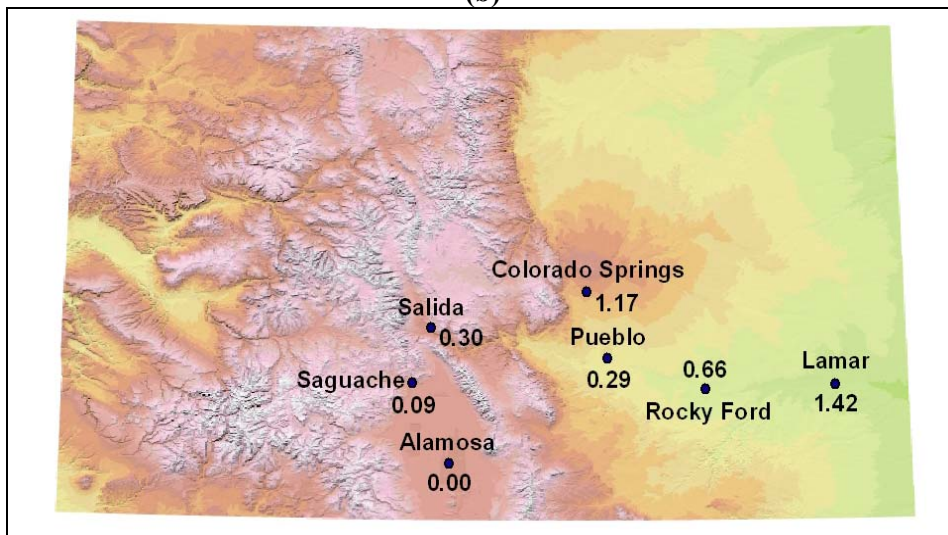
Day of Month during June	Time (Mountain Daylight)	Wind Direction	Wind Speed in mph	Gust Speed in mph
20	7:00 PM	Southerly	30	36
20	8:00 PM	Southwesterly	33	47
20	9:00 PM	Easterly	9	
20	10:00 PM	Southwesterly	41	49
20	11:00 PM	Southwesterly	44	52
21	12:00 AM	Southerly	43	56



(a)



(b)



(c)

Figure 2. Total precipitation (inches of water): (a) April, (b) May, and (c) June 1-20, 2002.

Table 3. Daily Temperature and Precipitation Data for Lamar, Colorado, for June 1-20, 2002.

Day of the Month in June 2002	Maximum Temperature in Degrees F	Minimum Temperature in Degrees F	Precipitation in Inches
1	106	67	0
2	106	68	0
3	106	64	0
4	87	55	0.03
5	67	55	0.15
6	73	54	0.38
7	93	62	0
8	100	65	0
9	100	69	0
10	101	71	0
11	93	60	0
12	94	60	0
13	91	59	0.11
14	75	51	0
15	83	57	0.75
16	89	50	0
17	84	58	0
18	100	66	0
19	102	74	0
20	99	65	0

Table 4. Daily Temperature and Precipitation Data for Rocky Ford, Colorado, for June 1-20, 2002.

Day of the Month in June 2002	Maximum Temperature in Degrees F	Minimum Temperature in Degrees F	Precipitation in Inches
1	103	57	0
2	102	69	0
3	97	65	0
4	86	54	0.49
5	75	52	0.13
6	93	55	0
7	100	56	0
8	99	59	0
9	103	69	0
10	98	68	0
11	93	56	0
12	92	63	0
13	90	54	0.02
14	87	54	0
15	90	56	0.02
16	85	49	0
17	101	53	0
18	102	61	0
19	102	62	0
20	99	65	0

Table 5. Daily Temperature and Precipitation Data for Holly, Colorado, for June 1-20, 2002. (Holly is east of Lamar near the Kansas and Colorado borders.)

Day of the Month in June 2002	Maximum Temperature in Degrees F	Minimum Temperature in Degrees F	Precipitation in Inches
1	105	62	0
2	105	62	0
3	103	65	0
4	87	59	0.1
5	72	57	0.13
6	75	53	0.09
7	93	57	0
8	98	57	0
9	98	68	0
10	100	71	0
11	96	64	0
12	95	67	0
13	93	62	0.21
14	73	48	0
15	83	54	0.04
16	92	49	0.01
17	84	54	0
18	102	62	0
19	101	72	0

U.S. Drought Monitor

June 18, 2002

Valid 8 a.m. EDT

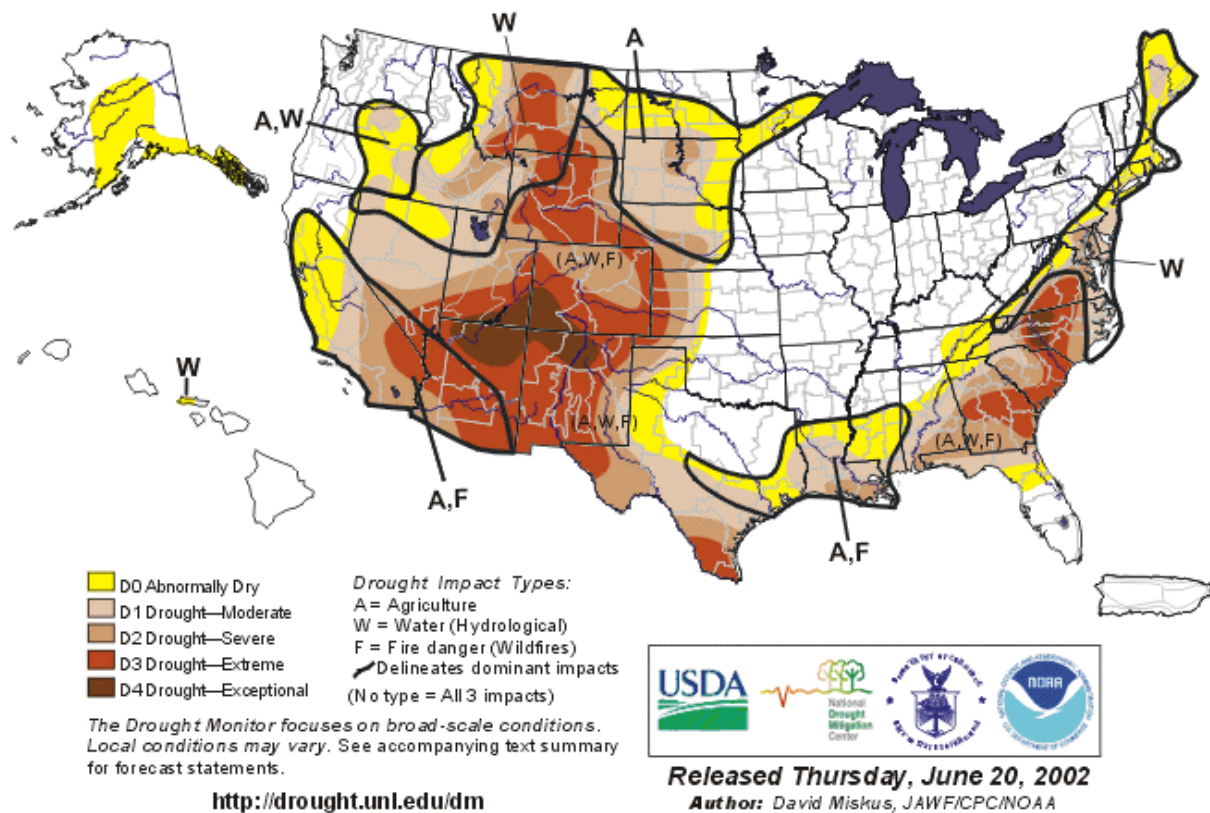


Figure 3. Drought status for the United States on June 18, 2002 (source: the USDA, NOAA, and the National Drought Mitigation Center at: <http://drought.unl.edu/monitor/monitor.html>, released on June 20, 2002).

Attachment B
Southeast Colorado Surface Weather Observations for
The Evening Hours of June 20, 2002,
Reported by the National Weather Service

COLORADO STATE WEATHER ROUNDUP
NATIONAL WEATHER SERVICE DENVER CO
700 PM MDT THU JUN 20 2002

NOTE: "FAIR" INDICATES FEW OR NO CLOUDS BELOW 12000 FEET WITH NO SIGNIFICANT WEATHER AND/OR OBSTRUCTIONS TO VISIBILITY.

COZ073-076>081-092-210200-
SOUTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
PUEBLO	CLOUDY	83	55	38	E9	30.06F	
LA JUNTA	CLOUDY	86	56	35	SE12	30.06F	
LAMAR	CLOUDY	87	56	34	S30G36	30.07R	
SPRINGFIELD	N/A	81	56	42	S26G41	30.18R	

COLORADO STATE WEATHER ROUNDUP
NATIONAL WEATHER SERVICE DENVER CO
800 PM MDT THU JUN 20 2002

COZ073-076>081-092-210300-
SOUTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
PUEBLO	CLOUDY	78	48	34	SE9	30.12R	
LA JUNTA	CLOUDY	75	50	41	S43G58	30.09R	HAZE
LAMAR	CLOUDY	80	56	43	SW33G47	30.13R	
SPRINGFIELD	N/A	67	52	58	SW17G30	30.25R	

COLORADO STATE WEATHER ROUNDUP
NATIONAL WEATHER SERVICE DENVER CO
900 PM MDT THU JUN 20 2002

COZ073-076>081-092-210400-
SOUTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
PUEBLO	CLOUDY	77	46	33	SE31G37	30.14R	
LA JUNTA	LGT RAIN	77	47	34	SE54G76	30.08F	VSB 3/4
LAMAR	CLOUDY	79	49	34	E9	30.09F	
SPRINGFIELD	N/A	65	55	70	SW24G32	30.21F	

COLORADO STATE WEATHER ROUNDUP
NATIONAL WEATHER SERVICE DENVER CO
1000 PM MDT THU JUN 20 2002

COZ073-076>081-092-210500-
SOUTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
PUEBLO	CLOUDY	74	47	38	SE23G38	30.17R	
LA JUNTA	CLOUDY	75	47	36	SE40G48	30.09R	
LAMAR	CLOUDY	80	46	30	SW41G49	30.08F	
SPRINGFIELD	N/A	67	53	61	W13G23	30.24R	

COLORADO STATE WEATHER ROUNDUP
NATIONAL WEATHER SERVICE DENVER CO
1100 PM MDT THU JUN 20 2002

COZ073-076>081-092-210600-

SOUTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
PUEBLO	CLOUDY	74	48	39	SE28G37	30.23R	
LA JUNTA	CLOUDY	78	44	29	S32G47	30.10R	
LAMAR	CLOUDY	82	43	25	SW44G52	30.03F	
SPRINGFIELD	N/A	68	52	56	S49G58	30.11F	

COLORADO STATE WEATHER ROUNDUP
NATIONAL WEATHER SERVICE DENVER CO
1200 AM MDT FRI JUN 21 2002

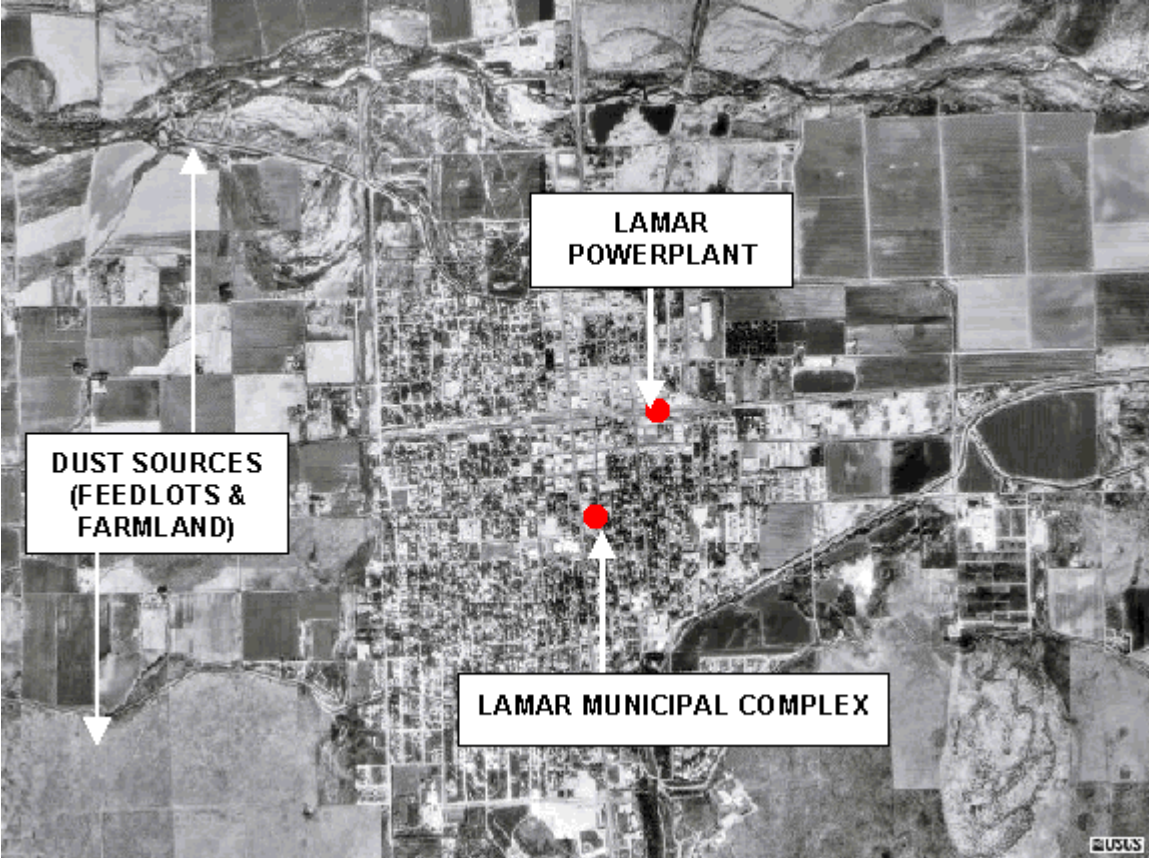
COZ073-076>081-092-210700-

SOUTHEAST COLORADO

CITY	SKY/WX	TMP	DP	RH	WIND	PRES	REMARKS
PUEBLO	CLOUDY	74	47	38	SE17G31	30.20F	
LA JUNTA	CLOUDY	72	50	45	SW26G35	30.17R	
LAMAR	CLOUDY	76	50	40	S43G56	30.02F	
SPRINGFIELD	N/A	70	50	49	SW31G40	30.11S	

4.0 Aerial Views of the Sites

Lamar



Alamosa



5.0 Other Accounts of Conditions and Events

Dry High Plain Are Blowing Away, Again

Timothy Egan

This article was published in New York Times, May 3, 2002.

LAMAR, Colo. - A hypnotist was the featured guest at the soil conservation district's annual meeting here a few weeks ago, a fitting diversion for a place where it has not rained for nearly a year and the land seems to be in a hard trance.

Across the state line from this southeastern Colorado town, in Syracuse, Kan., a crowd packed into the school gym to hear Dusty Dowd, a crop-duster, lead a prayer for rain. "Lord, we ask that you might again bless us with the general, beneficial rains that are so vital to our crops and our lives," the prayer went.

The soil is on the move again in the High Plains, drifting over a swath of the American midsection calcified by drought. For some, it is reviving memories of a time when the world seemed to blow away. There have been serious droughts here before, some as fierce as the dry spells of the 1930's. But this drought is among the worst, and in some counties, particularly in the northern plains, it is the most devastating in more than a century.

In eastern Montana, more than a thousand wheat farmers have called it quits rather than try to coax another crop out of ground that has received less rain over the last 12 months than many deserts get in a year. Blinding dust storms have forced drivers off the road, dozens of businesses have folded in withered communities, and the entire state has been declared a federal disaster area for farmers.

Wyoming is much the same. Here in southeastern Colorado, in the heart of the old Dust Bowl, the ground is so dry that agriculture officials say most of this state will not even produce a wheat crop.

"We've had severe drought before, but never four years in a row of terrible drought," said Jesse Aber, who directs Montana's drought task force.

John Stulp, a farmer from this flat, wind-chipped corner of Colorado, added: "It's drier around here than it has been for a hundred years. We've chiseled up the ground on land where we usually have wheat coming up, just to bring dirt clods up to hold the soil down."

Drought is no stranger to much of the country this year, with 29 states suffering through a prolonged dry spell. The East, from Maine to Georgia, has been particularly hard hit.

But what makes the drought stand out in the western Plains is the blowing dust, a haunt of the Dirty Thirties when brown blizzards carried sand all the way to the Atlantic Ocean and prompted more than three million people to leave their homes.

While the storms this year have not been nearly as epic or debilitating as the brown clouds that rolled over the flatlands during the Depression, they have been fierce - and they have come as something of a surprise for people who believed the land had been stabilized.

Two weeks ago, Herb Homsher pulled his car over by the side of the road in the midst of a dust storm near the Colorado-Oklahoma border. It was the kind of duster Mr. Homsher had not experienced in years. "You couldn't see the end of your car," he said.

In Montana, heavy dust this year caused a similar brownout, resulting in a traffic pileup that killed two television reporters.

According to the latest assessment by federal officials, half of Montana, all of Wyoming, nearly two-thirds of Colorado, half of Kansas, a third of Texas and most of New Mexico are in the midst of a drought labeled severe to extreme. Wildfires are racing through the eastern front of Colorado. With 280 fires already this year, Colorado has had four times as many fires as normal.

On much of the High Plains, the prairie grass was long ago plowed under to grow dry land wheat, a grain that depends entirely on what falls from the sky, with no help from irrigation.

"My father was born in 1918 and all my life he's been talking about how we should be careful, we could have another 1930's," said Lochiel Edwards, a wheat farmer from near Havre, Mont. "Well, now it's as dire as I've seen in my life, and my father just the other day said it's as bad as 1936."

The aridity may be worse than it was in the 1930's, but the dust storms do not compare. Up to 10 million acres lost at least the upper five inches of topsoil in those years, according to federal surveys. During one storm in 1934, more than 350 tons of airborne dust was galloping across the prairie. Wheat was never replanted on much of the land, which was reseeded with native prairie grass. Now the government pays thousands of farmers to keep the ground untilled, as part of the conservation reserve program.

Without the last half-century of federally directed soil conservation, much of the old Dust Bowl would be windblown again, many officials and farmers say. Even so, Mr. Edwards said, many of his neighbors have lost topsoil to the new dust storms. "Their land has gotten away from them, and I don't think it's their fault," he said. "This drought is just a killer."

To counties already hit by declining population and depressed farm prices, the days without rain are just one more piece of bad luck. In much of eastern Montana, Wyoming and Colorado, less than an inch of rain has fallen since last June. The soil is dry down to two feet in some areas.

"It's a cumulative thing," Mr. Aber of Montana's task force said. "Four years without much rain at all. Even during the 30's, there were some fairly normal rainfall years, so this is almost unprecedented."

Bridges cross over dry beds labeled rivers. Fields that usually turn green with the first spring rains are as brown as the skin of a baked potato. Rivers that drain snowmelt from the Rockies and flow east - like the Platte and the Arkansas - are running thin, and are so overtaxed that in some places only people with water rights dating to the 19th century are likely to get their regular share.

Some small towns, like Melstone, Mont., have lost their municipal water supplies, the first time anyone can remember this happening. River rafting companies on the Front Range, where the prairie meets the mountains, talk about "what water" instead of white water. Fishing guides worry that the winter's snow will not bring nearly enough water to make for a successful year on the region's trout streams.

"Everyone knows it's dry here, but it is the extreme, prolonged dry times that makes this such a disaster," said Jeff Tranel, an agronomist with Colorado State University.

Prowers County, where Lamar is, is already a federal disaster area, making farmers eligible for subsidized loans because of the weather. This week, Gov. Bill Owens of Colorado asked the federal government to declare the entire state a disaster area. But few people want to take on more debt.

"We're in trouble," said Steve Wertz, who has 3,000 acres in wheat and corn near this town on the old Santa Fe wagon trail. "I've been farming for 25 years and never seen it like this."

The quirks of global agriculture are such that even though dry land wheat, the crop that first brought white settlers here to break the prairie sod, is in trouble, grain prices remain depressed because of a worldwide

glut. Senators from the region are pressing for \$2.4 billion in disaster payments for farmers who will not be able to grow a crop this year. But with so many subsidies already directed at failing agricultural operations, a new payment for drought-related losses faces stiff opposition in Congress.

Looking to the white sky, farmers shrug and wonder if a new Dust Bowl will soon be upon them.

"The attitude out here is bad," said Mr. Edwards, the third-generation Montana wheat farmer. "It's just a depressing time to be on the prairie."

A joke making the rounds has it that the ducks who live in the cotton-mouthed counties in eastern Montana have yet to learn to swim. Most people say the line with a straight face.



Back to recommended reading

<http://www.ranchwest.com/egan.html>



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Goodland, KS

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Windy Conditions 21 May 2002

An unusual weather pattern for mid May produced extremely windy conditions across the northwest Kansas, eastern Colorado, and southwest Nebraska Tuesday afternoon and early evening (May 21, 2002). The strong winds produced wind gusts to 70 mph and property damage.

A strong high pressure center was anchored over the central east coast of the United States Tuesday. At the same time an unusually strong low pressure center moved across the Continental Divide. The pressure difference between these two weather features produced extremely windy conditions across the plains states including the Tri-State area.

A Wind Advisory was in effect Tuesday and Tuesday evening. South winds of 30 to 40 mph with gusts to 55 mph developed quickly after sunrise. At 324 PM MDT (424 PM CDT) a High Wind Warning was issued for locations west of a line from Palisade Nebraska south to Russell Springs Kansas.

At 345 PM MDT (445 PM CDT) a weather spotter in Flagler, Colorado, reported 65 mph winds uprooted 35 foot pine trees. Winds gusted to 70 mph north of Arapahoe, Colorado, which produced near zero visibilities due to blowing dust. Tree limbs were broken and shingles were blown off houses at Norcatour and Colby, Kansas.

Although the peak wind gust at the Goodland Airport was only 60 mph, the average wind speed for the entire day was the 6th windiest day in Goodland since weather records have been kept.

The following is a list of wind gusts reported to the National Weather Service in Goodland

Location	Wind gust	Time MDT (CDT)
McCook, Nebraska	54 MPH	334 PM MDT (434 PM CDT)
Flagler, Colorado	65 MPH (near zero visibility)	345 PM MDT (545 PM CDT)
Weskan, Kansas	61 MPH	400 PM MDT (500 PM CDT)
9 NNE Kit Carson, Colorado	58 MPH (near zero visibility)	400 PM MDT (500 PM CDT)
14 N Arapahoe, Colorado	70 MPH (near zero visibility)	400 PM MDT (500 PM CDT)
Idalia, Colorado	58 MPH	402 PM MDT (502 PM CDT)
Hill City, Kansas	46 MPH	408 PM MDT (508 PM CDT)
Burlington, Colorado	59 MPH	444 PM MDT (544 PM CDT)
Goodland, Kansas	60 MPH	505 PM MDT (605 PM CDT)
14 N Arapahoe, Colorado	70 MPH (near zero visibility)	526 PM MDT (626 PM CDT)
13 W Goodland Kansas	68 MPH	538 PM MDT (638 PM CDT)



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Paige O'Hara



Barbie as Rapunzel
Owen Hurley



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USDA Update

by Rod Johnson

May 24, 2002

Areas of Kiowa County received up to .3 inches of precipitation on May 16 but wind plagued the county for the next several days and eliminated any benefit of the precipitation. Average precipitation for the month of May in Kiowa County is 2.41 inches so we are still only about 12% of average. Due to the wind, erosion intensified on several fields throughout the county.

CRP Grazing Approved

Agriculture Secretary Ann Veneman has announced the approval of emergency grazing on CRP acreage for several counties. Senator Wayne Allard's office has announced that Kiowa County along with several other southeast Colorado counties are included in the approval. Annual rental payments on CRP will be reduced 25% and producers must leave 25% of the acreage ungrazed in the same or adjoining fields or reduce stocking levels by 25%. CRP grazing is currently approved through August 31 or until the Colorado State or County FSA Committee determines the emergency grazing is no longer warranted. Producers interested in emergency grazing of CRP should contact the FSA Office.

Offices Closed

The USDA Service Center along with other Federal and State agencies will be closed on Monday, May 27 in observance of the Memorial Day Holiday.

FSA Assisting Crop Insurance

The Agricultural Risk Protection Act requires FSA to assist the Risk Management Agency (RMA) improve the integrity of the crop insurance program. We have been asked to monitor the program, report problems to RMA and assist RMA and insurance providers when auditing certain claims. FSA will refer all suspected cases of fraud, waste and abuse to RMA. You are encouraged to report suspected cases of fraud or abuse to the FSA Office. We are not involved with the decision making process. We are merely assisting RMA by gathering facts and reporting

observations as they pertain to weather and crop plantings, maintenance and harvest.



The banner features the text "shop now AND SAVE Save big on thousands of products!" on the left, "Videos Electronics Video Games Camera & Photo" in the middle, and the "amazon.com" logo with the slogan "and you're done." and a "Click Here" button on the right. Below the banner are six product listings, each with a small image of the game box and its name:

- Trivial Pursuit 20th Anniversary Hasbro
- Candy Land Milton Bradley
- A Little People Christmas Fisher-Price
- Chutes & Ladders Game Milton Bradley
- Chicken Dance Elmo Fisher-Price
- Operation Milton Bradley

Below the listings, it says "(Prices May Change) Privacy Information".

EQIP Sign-up

As a result of the 2002 Farm Bill, Colorado will receive supplemental Environmental Quality Incentives Program (EQIP) funds for 2002. The NRCS office will be taking applications for this supplemental 2002 EQIP until June 28, 2002. Cost shares may be available for such things as terracing, livestock water facilities and other conservation practices. The EQIP contracts will be from one to ten years. All funds will be distributed to the five priority issues of soil erosion, water quality, grazing lands, wildlife, and animal waste facilities.

WHIP Program

The final date for signup for the Wildlife Habitat Incentive Program (WHIP) for 2002 is June 28, 2002. WHIP is a program that provides technical and financial assistance to landowners and others to develop upland, wetland, riparian and aquatic habitat areas on their property. This program places special emphasis on habitats for wildlife species experiencing declining or reduced populations. Applications are ranked using criteria of proximity to protected wildlife areas, benefited species, planned practices, contributing partners, proximity to occupied dwellings, and resource management systems. Contract approvals will be based on the highest ranking points. Applications are available at the NRCS office.

Loan/LDP Deadline

May 31 is the final date to obtain loans and Loan Deficiency Payments (LDP's) on 2001 production of grain sorghum, corn, sunflower seed and

soybeans. Producers with outstanding 2001 crop loans may still repay the loan at the posted county price through maturity of the loan.

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Chase Log 2002

Distance Traveled: 6176 Miles

**Lots of Thunderstorms, Six Supercell Days
Several Weak Tornadoes, One "Possible" Wedge**

Last Updated 6/24/02

May 18	May 19	May 20	May 21	May 22	May 23
May 24	May 25	May 26	May 27	May 28	May 29
May 30	May 31	June 1	June 2	June 3	June 4

May 18

We (yours truly, John Monteverdi, and Thom Trimble) arrived at Denver International Airpo on Friday evening, May 17. We decided to spend the night in Boulder since it is picturesque town and the running is great there.

We got a free upgrade on our vehicle...which got us a Nissan Maxima with GPS Navigator for the price of a Taurus. And, 250 horsepower....

On May 18 we hoped that a Denver Convergence Zone would develop and that dew points would recover sufficiently to allow for storms with low bases and rooted in the boundary layer. Instead, although the DVCZ did indeed develop, the dew points brought northward were low, and all we got were elevated storms drifting off of the Rockies.

Well, we got a great run in up the trail along Boulder Canyon...very scenic with lots of shee canyon walls around. (Note rock climbers on the top of the cliffs in the background).

We took the opportunity to visit the National Center for Atmospheric Research and take in the displays.

We are spending the night in the Colorado Springs area (Manitou Springs). The progs are encouraging for the early part of the week, perhaps Tuesday, though whether we will be heading north or south is a question now.

Meanwhile, we are hoping to get some lightning shots over the next several days, since a little bit of buoyancy will allow for mountain thunderstorms to develop each day.

May 19

<http://tornado.sfsu.edu/geosciences/StormChasing/cases/ChaseLogs/2002/Chase2002.html>

11/21

We awoke in Manitou Springs to the second consecutive Denver cyclone...but working with very low dewpoints. Once again, we took the opportunity to get another great run in...this time in Garden of the Gods. Afterwards, in Colorado Springs, we decided to head southeast to Lamar, Colorado, hoping to get a lightning show tonight....so we will see about that.

With meager buoyancy to work with, an incoming short wave passing over SW Colorado stimulated many, but mostly weak, thunderstorms (with a few exceptions). However, the coverage and intensity of storms was greater than that of yesterday....several storms nearby became severe. This storm developed a microburst and spread dust upwards and outward

Over the next 48 hours, shear profiles become better....so we are looking to the Gulf of Mexico, hoping that moist air works its way northward.

May 20 and 21

That darn low in the Gulf of Mexico is mucking up the moisture return. So even though somewhat favorable shear profiles returned to the Plains, there were no storms on the 20th. We holed up in Lamar, Colorado that night

The next day, shear profiles in eastern Wyoming were expected to be dynamite, ahead of an ejecting short wave that had clobbered California. Unfortunately, an otherwise tornadic pattern was moistureless. The result was a series of storms that developed in the Wyoming Rockies and drifted eastward. We targeted the area north of Cheyenne and saw some high based storms with a large shelf extending outward to the east, but no structure to speak of.

We drifted east into Nebraska that evening and got pummelled by 50-70 mph winds in the Nebraska Panhandle. These winds were southeasterly winds rushing into the monster low over our north....but with no moisture, only weak thunderstorms resulted. The strong winds lifted the moulding on our windshield. Eventually, we had to have the care replaced.

May 22

After spending the night in Kearney, Nebraska, we drove southward to get south of the cold front that had advanced into the western part of Nebraska and advanced, eventually, into north-central KS. Finally, high 50 dew points had worked their way northward from the Gulf. But would it be enough to initiate storms in the area of favorable shear for tornadic supercells in the area between Pratt and Wichita? Nope!

But enough moisture had pooled ahead of the cold front to generate some weakly rotating storms. We saw the first north of Russell, KS. Later, we chased a couple of storms north of Hays that exploded in the late afternoon. These storms had some weakly developed structure...a couple of developing wall clouds that had some rotation and a nice base, albeit with weak rotation. However, there were some great downbursts and ominous lowerings. There was also one radar-indicated tornado that stimulated a warning for a storm north of t

We are in Russell KS tonight, and are aiming for the Oklahoma border area north of Enid