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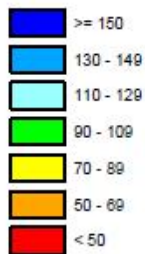
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Colorado Snow Pack

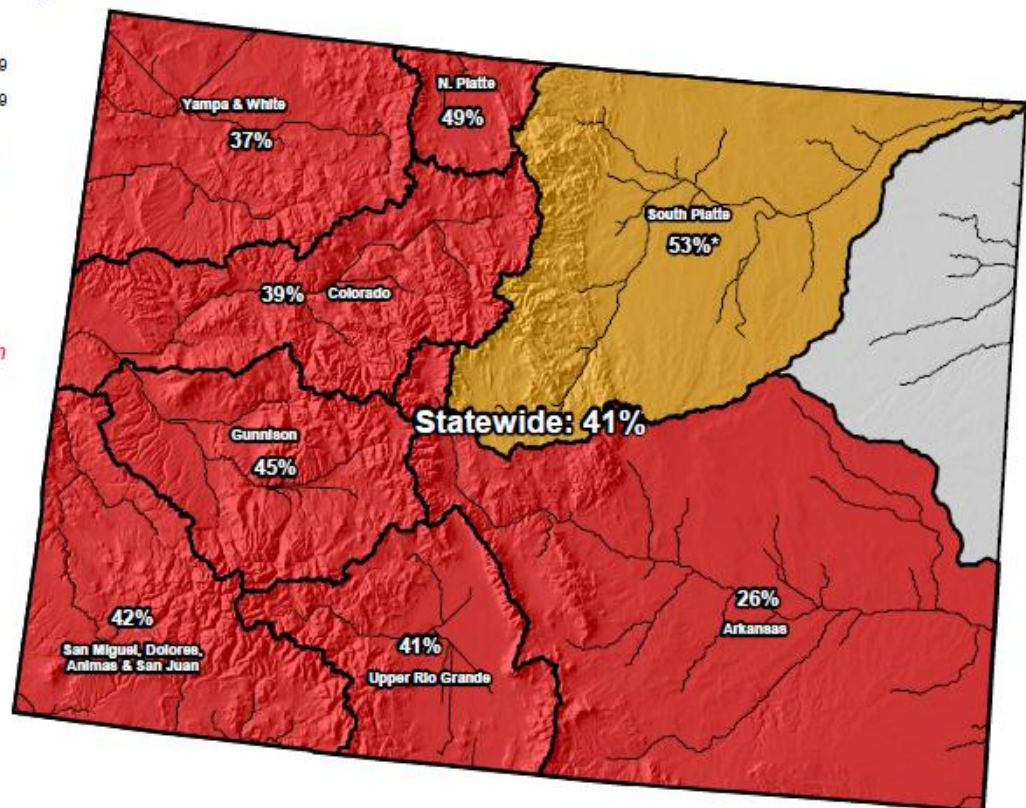
If you have been up to the mountains recently you would not think that we are in the month of December. There are many areas free of snow cover that are normally covered with multiple inches and even feet of snow by now. Below is a map of the current snow pack compared to normal:

Colorado SNOTEL Snowpack Update Map

Percent of Average



*Provisional Data
Subject to Revision*



Current as of Nov 29, 2012

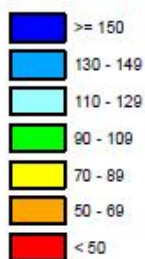
*Data may not provide a valid measure of conditions

Statewide the snow pack stands at 41% with the lowest % of average in the Arkansas River basin which stands at only 26%. The lack of snow can be attributed to the storm track remaining well north of Colorado. So far this winter Pacific storm systems have been pounding the Pacific Northwest but graze northern Utah and impact Idaho, Montana and western Wyoming instead of Colorado. The snow pack that accumulates high up in the mountains feeds our reservoirs and provides much of the water we use here along the Front Range. With the abnormally dry summer we experienced reservoirs were drained and are at 67% of capacity on average currently. Last year at this time our reservoirs were at 105% of average. The lack of water in our reservoirs does not bode well for this summer as it will take well above normal snowfall and precipitation to make up for the deficit we are currently in. Below is a map of reservoir storage. Southern Colorado is suffering the most an in particular the Rio Grande drainage.

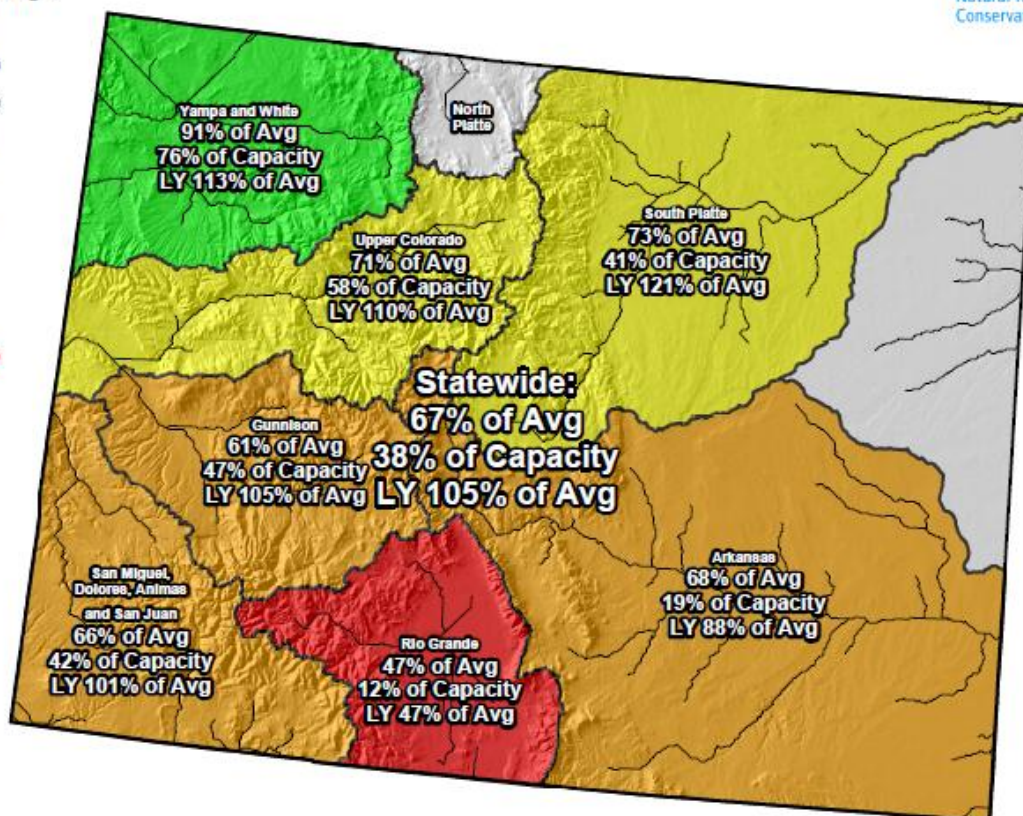
Colorado Reservoir Storage Map



Percent of Average



*Provisional Data
Subject to Revision*



End of September 2012

There is some good news on the horizon though... The storm track is expected to drop further south and the weather will become more active this month as compared to November and we will begin to receive accumulating snows. The snowfall is not expected to bring relief from the drought but anything is welcome at this point.

The images above and much more can be found at the NRCS at:

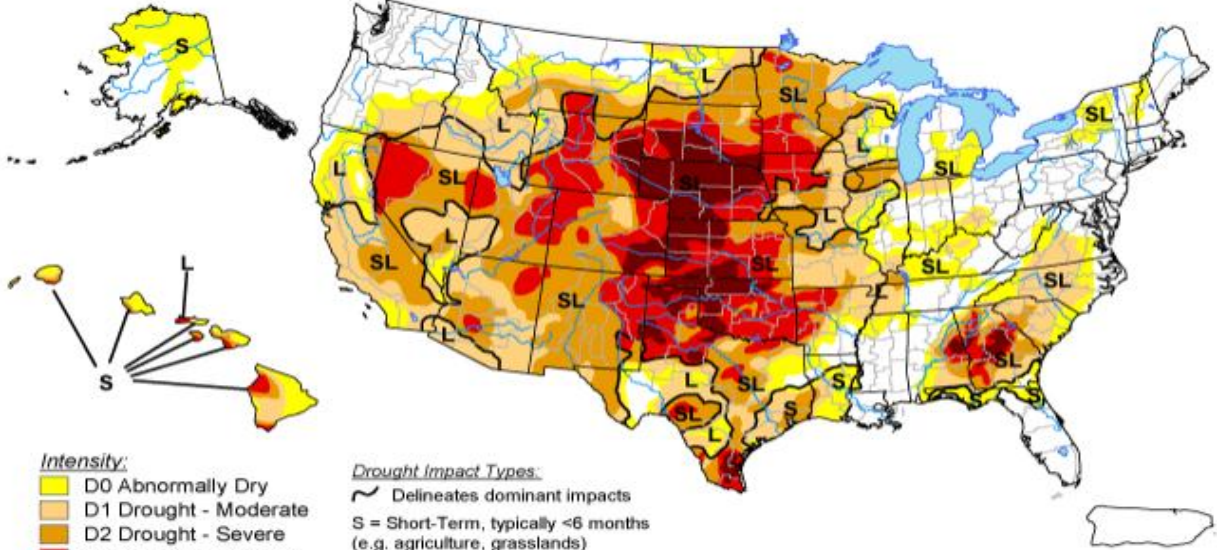
<http://www.co.nrcs.usda.gov/snow/>

Drought Update

The central part of the US extending westward into the central Rockies and parts of the Great Basin continues to be under extreme to exceptional drought.

U.S. Drought Monitor

November 27, 2012
Valid 7 a.m. EST



Intensity:

- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

Drought Impact Types:

- Delineates dominant impacts
- S = Short-Term, typically <6 months (e.g. agriculture, grasslands)
- L = Long-Term, typically >6 months (e.g. hydrology, ecology)

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

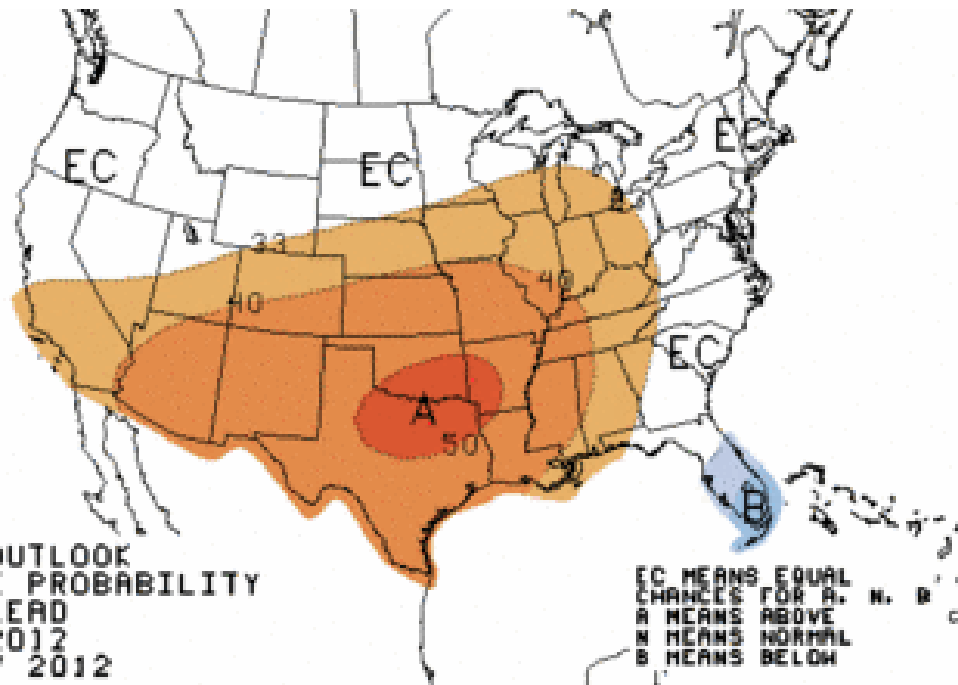
<http://droughtmonitor.unl.edu/>



Released Thursday, November 29, 2012

Author: Eric Luebehusen, U.S. Department of Agriculture

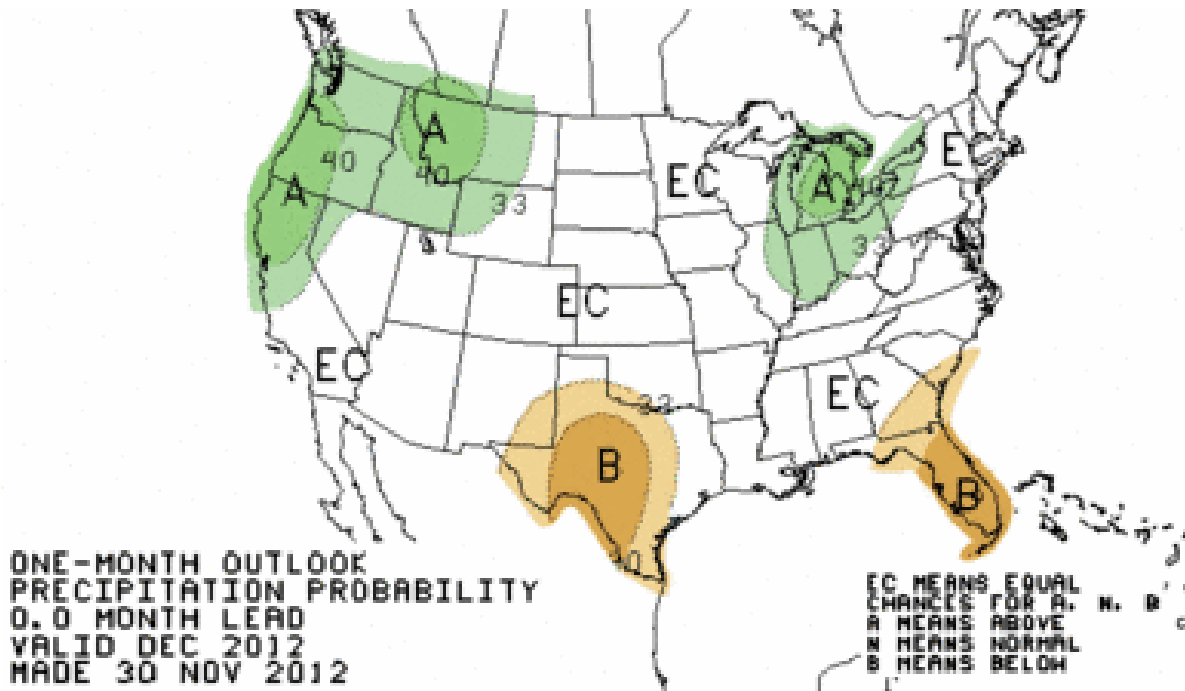
The map below shows forecasted temperature deviances for December 2012. Above normal temperatures are expected over the state of Colorado.



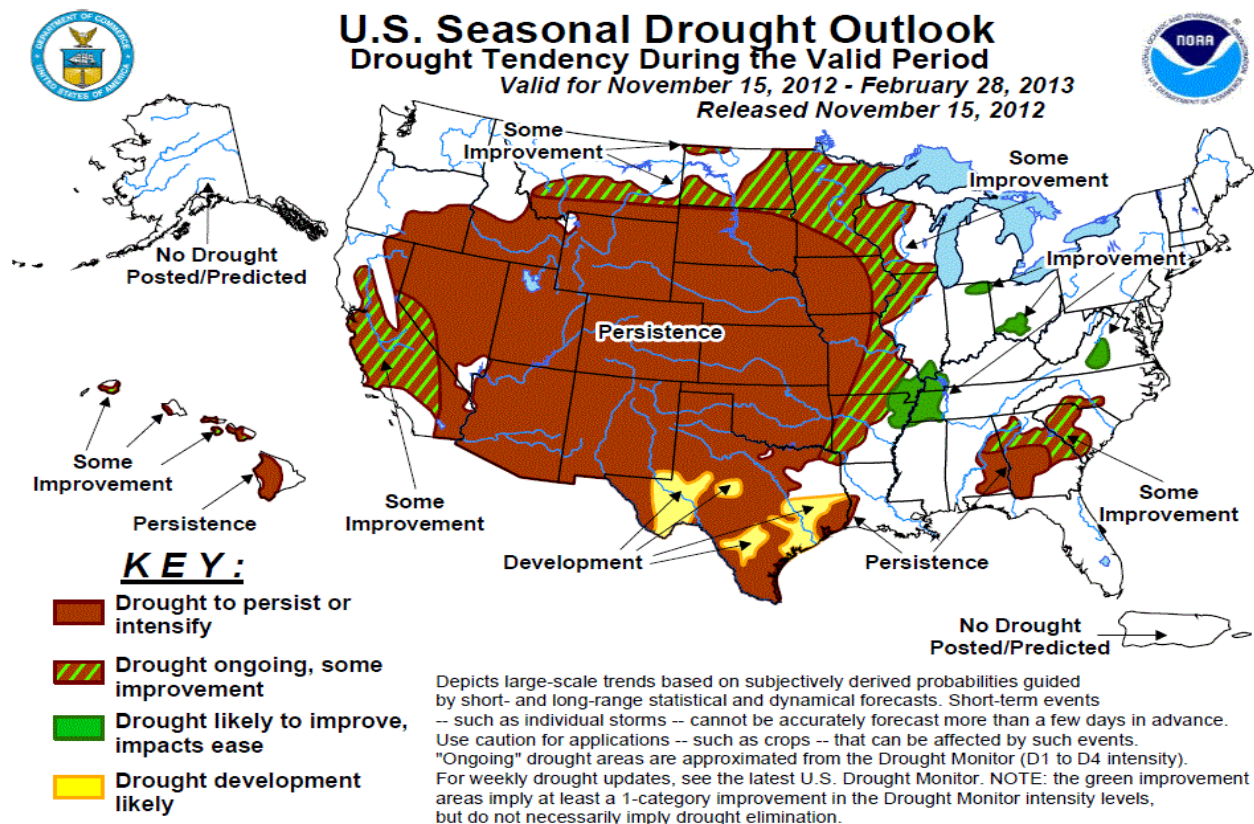
ONE-MONTH OUTLOOK
TEMPERATURE PROBABILITY
0.0 MONTH LEAD
VALID DEC 2012
MADE 30 NOV 2012

EC MEANS EQUAL
CHANCES FOR A, N, B
A MEANS ABOVE
N MEANS NORMAL
B MEANS BELOW

The map below shows forecasted precipitation deviances for December 2012. Above normal precipitation will continue likely over the Pacific Northwest and Great Lakes Region. The state of Colorado has equal chances for above or below precipitation.



Drought conditions will persist over much of the Country with some improvement possible in central and southern California, the northern Great Plains and areas along the mid Mississippi Valley.



November Summary

Not much to talk about for the month of November weather wise as there was only one meaningful storm on the 10th that produced 0.27" of precipitation and 1.7" of snowfall at DIA. Snowfall amounts from that one storm ranged from only a trace in Colorado Springs to as much as 4" or more south of Greeley in Weld County. Most areas received between 0.5-2" from Douglas County northward to the Wyoming border. Temperatures were well above normal with average highs of 58.4 degrees and average lows of 28.5. The monthly mean temperature of 43.8 degrees was 5.2 degrees above the normal of 38.3 and ranks just outside the top 10 warmest Novembers in 11th place. It was not just the Front Range that was warm and dry, all of the state experienced well below normal precipitation and above normal temperatures. Fire danger was high during the latter part of the month with new and old fires flaring up. There was one cloudy day with 24 partly cloudy days and 5 sunny days.

November Stats

TEMPERATURE (IN DEGREES F)

AVERAGE MAX	58.4	NORMAL 52.1	DEPARTURE 6.3
AVERAGE MIN	28.5	NORMAL 24.5	DEPARTURE 4.0
MONTHLY MEAN	43.8	NORMAL 38.3	DEPARTURE 5.2
HIGHEST	77 on the 7 th		
LOWEST	13 on the 11 th		

DAYS WITH MAX 90 OR ABOVE	0	NORMAL	0
DAYS WITH MAX 32 OR BELOW	0	NORMAL	2
DAYS WITH MIN 32 OR BELOW	19	NORMAL	23
DAYS WITH MIN ZERO OR BELOW	0	NORMAL	1

TEMPERATURE RECORDS

No temperature records tied or broken.

HEATING DEGREE DAYS

MONTHLY TOTAL	638	NORMAL 801	DEPARTURE -163
SEASONAL TOTAL	1195	NORMAL 1382	DEPARTURE -187

COOLING DEGREE DAYS

MONTHLY TOTAL	0	NORMAL 0	DEPARTURE 0
YEARLY TOTAL	1236	NORMAL 769	DEPARTURE 467

PRECIPITATION (IN INCHES)

MONTHLY TOTAL	0.27	NORMAL	0.61	DEPARTURE	-0.34
YEARLY TOTAL	9.84	NORMAL	13.88	DEPARTURE	-4.04
GREATEST IN 24 HOURS	0.27" on 11/10				
DAYS WITH MEASURABLE PRECIP.					1

SNOWFALL (IN INCHES)

MONTHLY TOTAL	1.7	NORMAL	8.7	DEPARTURE	-7.0
SEASONAL TOTAL	7.2	NORMAL	14.0	DEPARTURE	-6.8
GREATEST IN 24 HOURS	1.7" on 11/10				
GREATEST DEPTH	NA				

WIND (IN MILES PER HOUR)

AVERAGE SPEED	8.4mph
PEAK WIND GUST	37mph from the SW

MISCELLANEOUS WEATHER

NUMBER OF DAYS WITH THUNDERSTORM	0	NORMAL	0
NUMBER OF DAYS WITH HEAVY FOG	1	NORMAL	1
NUMBER OF DAYS WITH HAIL	0		
NUMBER OF SUNNY DAYS	5		
NUMBER OF PARTLY CLOUDY DAYS	24		
NUMBER OF CLOUDY DAYS	1		
AVERAGE RELATIVE HUMIDITY	44%		

December Preview

The month of December over time has proven to be highly variable in both temperature and snowfall. December boasts the least amount of snow ever recorded with 0.0" in 1881 as well as the most snow ever recorded, 57.4" in 1913. Temperatures are sometimes as warm as the mid to upper 60s and other days where the temperature does not even climb above zero. December is usually the first month that you can count on sub zero temperatures on the eastern plains as cold Canadian air masses intrude east of the Continental Divide. The shortest days of the year will occur on the winter solstice the 21st of the month. Although there is a great deal of variability on average temperatures are in the 40s for highs and upper teens for overnight lows. There are usually around 4 storms during the month producing 0.35" or precipitation. Snowfall on average is 8.5" and is one of the snowier months of the year ranking 3rd. Snow that falls in December can remain in the heavily shaded areas for long periods of time. December of 2012 is expected to feature 2-4 storms during the month that will have the potential to produce meaningful snows. Near normal precipitation and snowfall is expected.

DENVER'S OCTOBER CLIMATOLOGICALLY NORMAL (NORMAL PERIOD 1981-2010 DIA Data)

TEMPERATURE

AVERAGE HIGH	42.8
AVERAGE LOW	17.1
MONTHLY MEAN	30.0
DAYS WITH HIGH 90 OR ABOVE	0
DAYS WITH HIGH 32 OR BELOW	6
DAYS WITH LOW 32 OR BELOW	29
DAYS WITH LOWS ZERO OR BELOW	2

PRECIPITATION

MONTHLY MEAN	0.35"
DAYS WITH MEASURABLE PRECIPITATION	4
AVERAGE SNOWFALL IN INCHES	8.5"
DAYS WITH 1.0 INCH OF SNOW OR MORE	3

MISCELLANEOUS AVERAGES

HEATING DEGREE DAYS	1086
COOLING DEGREE DAYS	0
WIND SPEED (MPH)	8.4
WIND DIRECTION	South
DAYS WITH THUNDERSTORMS	0
DAYS WITH DENSE FOG	1
PERCENT OF SUNSHINE POSSIBLE	67%

EXTREMES

RECORD HIGH	79 on 12/05/1939
RECORD LOW	-25 on 12/24/1876 and 12/22/1990
WARMEST	43.8 degrees in 1933

COLDEST	17.5 in 1983
WETTEST	5.21" in 1913
DRIEST	0.00" in 1881
SNOWIEST	57.4" in 1913*
LEAST SNOWIEST	0.0" in 1881*

Sunrise/Sunset (July - December Denver area)

	JUL	AUG	SEP	OCT	NOV	DEC	
	SR - SS	SR - SS	SR - SS	SR - SS	SR - SS	SR - SS	
01	0534-0831	0558-0812	0627-0731	0655-0642	0728-0556	0701-0434	01
02	0535-0831	0559-0811	0628-0729	0656-0640	0729-0555	0702-0434	02
03	0535-0830	0600-0810	0629-0727	0657-0639	0730-0554	0703-0434	03
04	0536-0830	0601-0809	0630-0726	0658-0637	0632-0453	0704-0434	04
05	0537-0830	0602-0808	0631-0724	0659-0635	0633-0452	0705-0434	05
06	0537-0830	0603-0807	0632-0723	0700-0634	0634-0451	0706-0434	06
07	0538-0830	0603-0806	0633-0721	0701-0632	0635-0450	0707-0434	07
08	0538-0829	0604-0804	0634-0719	0702-0631	0636-0449	0708-0434	08
09	0539-0829	0605-0803	0634-0718	0703-0629	0637-0448	0709-0434	09
10	0540-0828	0606-0802	0635-0716	0704-0628	0638-0447	0709-0434	10
11	0540-0828	0607-0801	0636-0714	0705-0626	0640-0446	0710-0434	11
12	0541-0828	0608-0759	0637-0713	0706-0624	0641-0445	0711-0434	12
13	0542-0827	0609-0758	0638-0711	0707-0623	0642-0444	0712-0435	13
14	0543-0827	0610-0757	0639-0710	0709-0621	0643-0443	0712-0435	14
15	0543-0826	0611-0755	0640-0708	0710-0620	0644-0442	0713-0435	15
16	0544-0825	0612-0754	0641-0706	0711-0618	0645-0442	0714-0435	16
17	0545-0825	0613-0753	0642-0705	0712-0617	0646-0441	0714-0436	17
18	0546-0824	0614-0751	0643-0703	0713-0616	0648-0440	0715-0436	18
19	0547-0824	0615-0750	0644-0701	0714-0614	0649-0440	0716-0437	19
20	0547-0823	0616-0749	0645-0700	0715-0613	0650-0439	0716-0437	20
21	0548-0822	0617-0747	0646-0658	0716-0611	0651-0438	0717-0438	21
22	0549-0821	0618-0746	0647-0656	0717-0610	0652-0438	0717-0438	22
23	0550-0821	0619-0744	0648-0655	0718-0609	0653-0437	0718-0439	23
24	0551-0820	0620-0743	0649-0653	0719-0607	0654-0437	0718-0439	24
25	0552-0819	0620-0741	0650-0651	0720-0606	0655-0436	0718-0440	25
26	0552-0818	0621-0740	0651-0650	0721-0605	0656-0436	0719-0441	26
27	0553-0817	0622-0738	0652-0648	0723-0603	0657-0436	0719-0441	27
28	0554-0816	0623-0737	0652-0647	0724-0602	0658-0435	0719-0442	28
29	0555-0815	0624-0735	0653-0645	0725-0600	0659-0435	0719-0443	29
30	0556-0814	0625-0734	0654-0643	0726-0558	0700-0435	0720-0443	30
31	0557-0813	0626-0732		0727-0557		0720-0444	31

Snowfall

Oct 2012 to Apr 2013

City	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
Aurora (Central)	4.7	1.0						5.7
Brighton	5.6	3.0						8.6
Broomfield	5.9	2.0						7.9
Castle Rock	4.0	0.2						4.2
Colo Sprgs Airport	Trace	0.3						0.3
Denver DIA	5.5	1.7						7.2
Denver Downtown	4.8	0.7						5.5
Golden	5.8	1.4						7.2
Fort Collins	4.5	0.4						4.9
Highlands Ranch	4.9	1.2						6.1
Lakewood	4.9	1.0						5.9
Littleton	4.5	1.5						6.0
Parker	3.8	2.0						5.8
Sedalia - Hwy 67	4.0	TR						4.0
Thornton	6.2	2.0						8.2
Westminster	5.2	2.0						7.2
Wheatridge	4.4	1.3						5.7

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