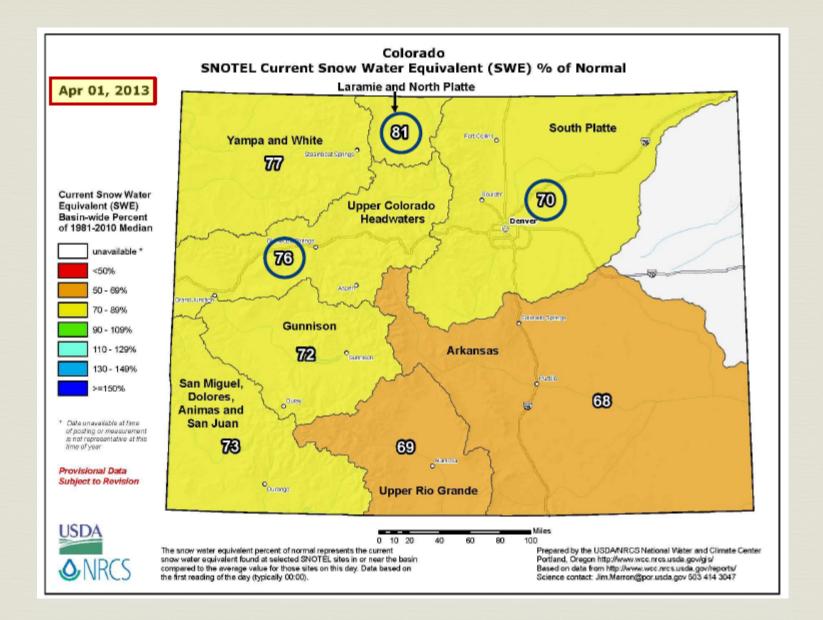
Determination of City's Drought Response Level

Presentation to City Council May 14, 2013 (Most recent projections in time for the meeting) Specifics about 2013 Water Supply / Demand

Snowpack
Temperature
Precipitation
Water Demand
Water Supplies
Surplus (not deficit) in projected supplies for 2013

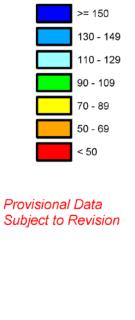
The Drought

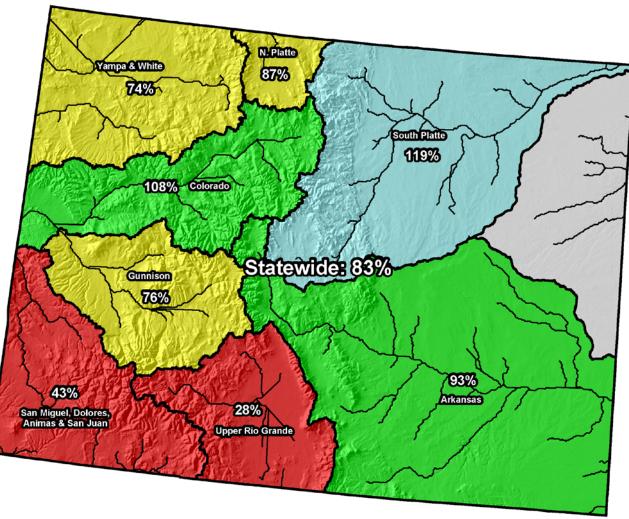




Colorado SNOTEL Snowpack Update Map

Percent of Average

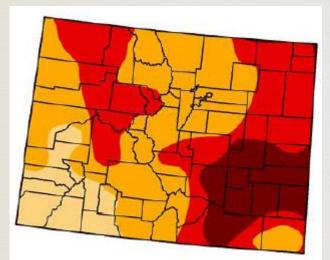




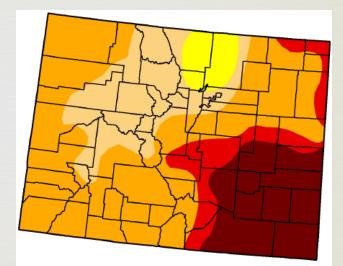
Current as of May 14, 2013

*Data may not provide a valid measure of conditions

The Drought



April 2, 2013



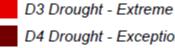
May 7, 2013

Intensity:

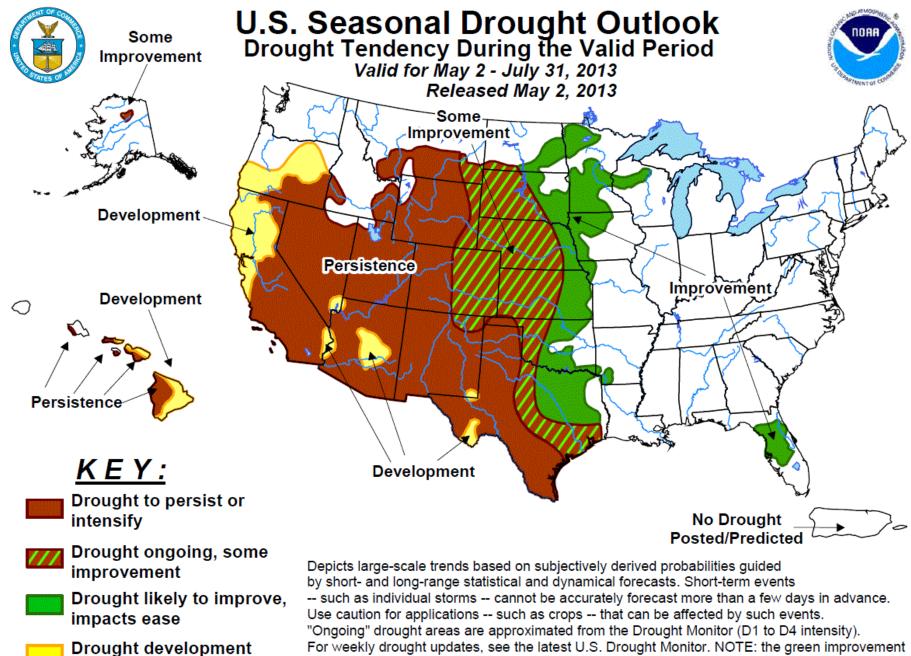


D1 Drought - Moderate

D2 Drought - Severe



D4 Drought - Exceptional



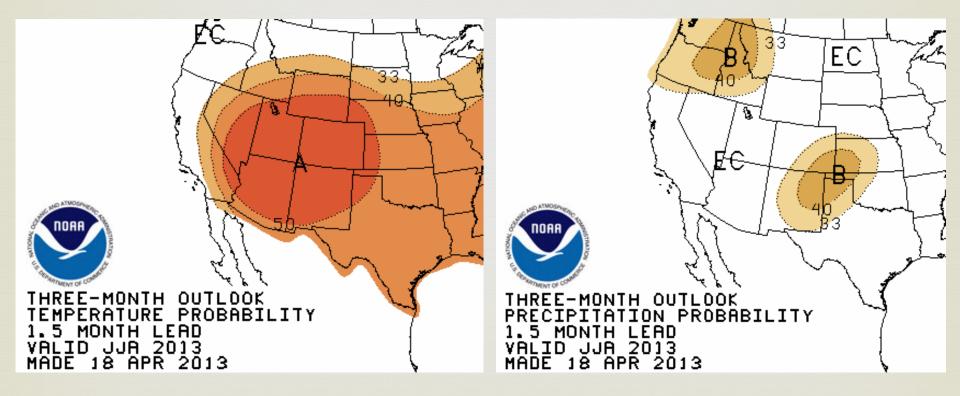
areas imply at least a 1-category improvement in the Drought Monitor intensity levels, but do not necessarily imply drought elimination.

likely

Summer Temperature Projections

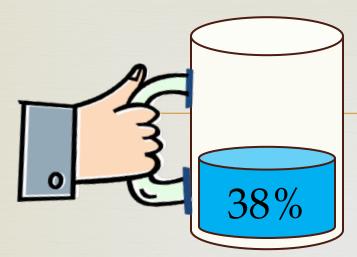






Temperature

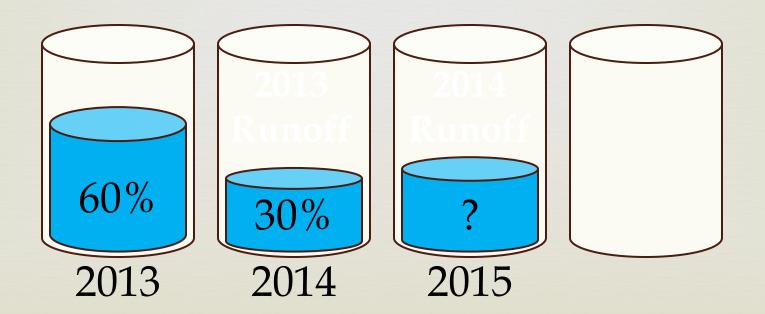
Precipitation



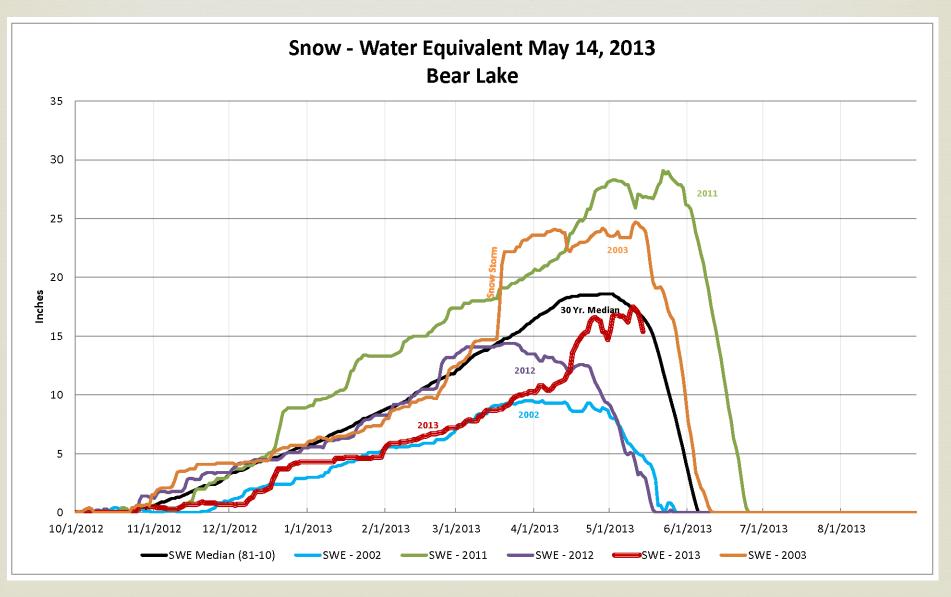
CBT-System April 1, 2013

April 1, 2013 Project Reserves

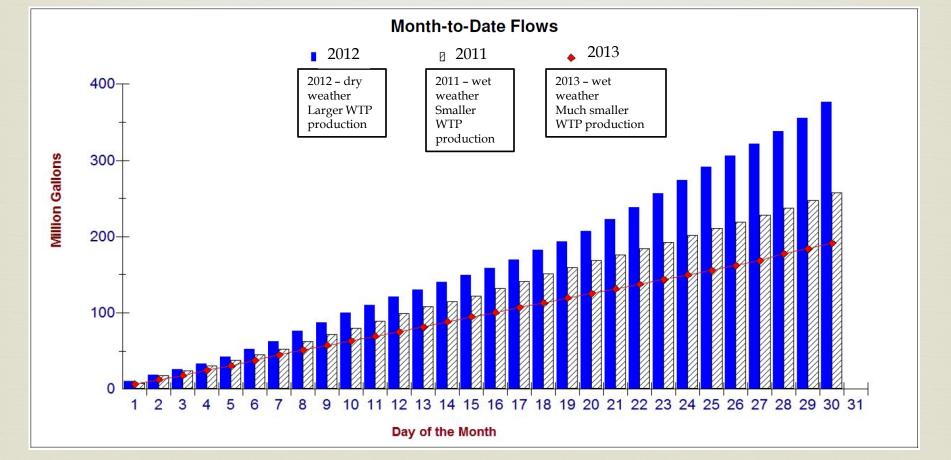
(2



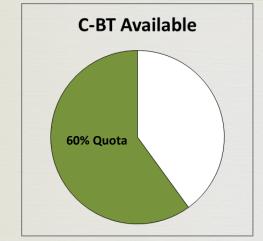
Big Thompson Basin Snow-Water Equivalent (SWE)



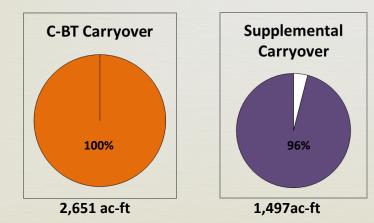
April 2013 WTP Production

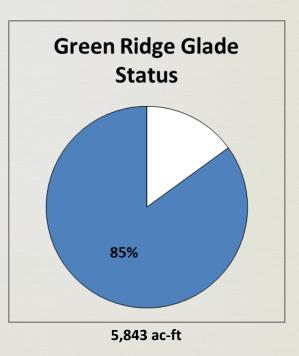


Loveland's Current Supply May 14, 2013









Water Supply Projection Changes April 1st through May 14th

- Projected river availability was increased based on the most recent snowpack information as well as current river flow.
- In early April, projections showed not much, if any, Windy Gap Project Water pumping this year. As of May 10, Windy Gap is projected to pump close to 25,000 acre-ft. This means Loveland should have at least 1,500 acre-ft of Windy Gap available if needed.
- Projected demand was lowered due to cooler temperatures and increased precipitation.

Loveland's Water Supply Projection for 2013

(all values in acre-feet)

May 14, 2013			Demand	Supply	Totals
Storage					
	GRG	i Reservoir			
		Volume Necessary to Fill	(992)		
	C-B	۲ System			
		Eureka Ditch Available		0	
		Balance Carried Over		3,081	
		Quota Water Available		7,241	
		Estimated Windy Gap		1,500	
		Carryover for Next Year	(2,651)		
		Supplemental Carryover	(1,566)		
	Net Storage Available				6,614
Big Thor	npso	n River Rights			
	Net	River Rights Available			8,050
System	Dem	ands			
	Remaining Demand		(10,202)		
	Remaining Parks Leases		(700)		
	Net Remaining Demands				(10,902)
Water Supply Status November 1, 2013					3,761

Water Year is from November 1 through October 31

Projected Demand Based on 2010 Production

Summary

- The City of Loveland has developed a robust water supply over many decades.
- This water supply offers a very high degree of stability during periods of uncertain drought.
- Constrained is fortunate and has not endured any extraordinary challenges to our watershed, such as a forest fire, that could impact our water supply.
- A Should additional impacts to our water supply occur, the Drought Management Plan allows for a quick response.

City Council Recommendation

- Current water supplies are adequate to satisfy this year's projected demands without restrictions.
- Focus on education and voluntary participation in wise use of water at this time.
- Should conditions change, Staff will return to city council and recommend implementing one of the four mandatory restriction levels included in the Drought Management Plan to curtail demand.