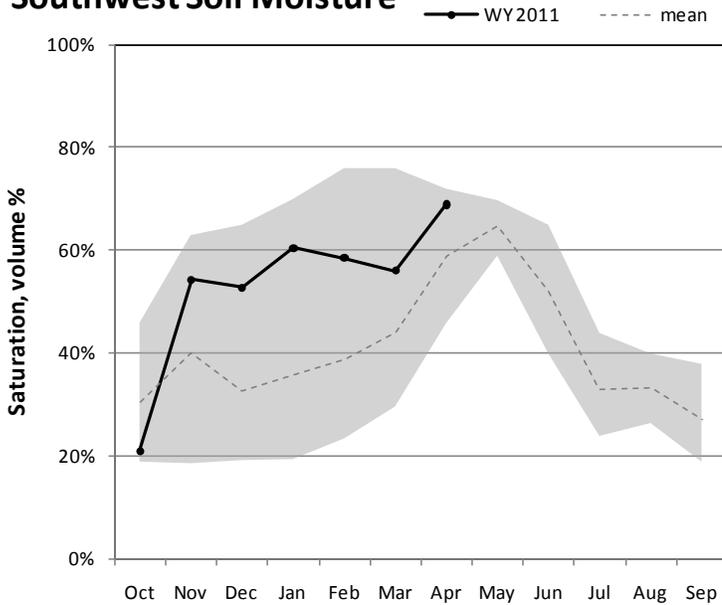


## E. Garfield, Kane, Washington, & Iron Co. April 1, 2011

Snowpacks in this region are much above normal at 158% of average, which is 99% of last year. Individual sites range from 14% at Little Grassy Snotel, to 251% of average at Harris Flat Snotel. March precipitation was near average at 95%, bringing the seasonal accumulation (Oct-Mar) to 181% of average. The average soil moisture estimate in runoff producing areas is at 69% of saturation within the upper 2 feet of soil, compared to 46% last year. Forecast streamflows (Apr-July) range from 172% to 120% of average. Reservoir storage is at 89% of capacity, 23% higher than last year at this time. The Surface Water Supply Index is at 81%, indicating much above average water supply conditions.

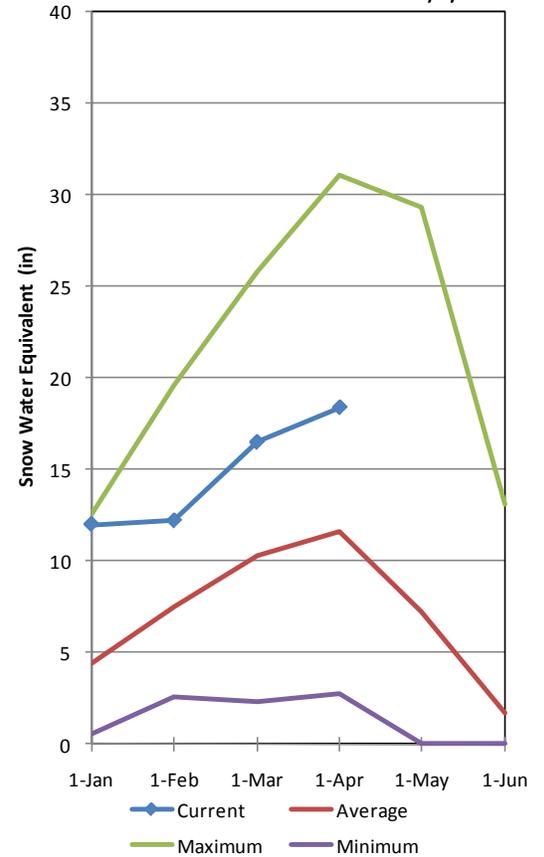
### Southwest Soil Moisture



Percent saturation is calculated using the weighted average of volumetric soil moisture content at 2, 8, and 20-inch depths. Saturation is estimated as 40% volumetric water content. The gray area represents the range in saturation values since 2005.

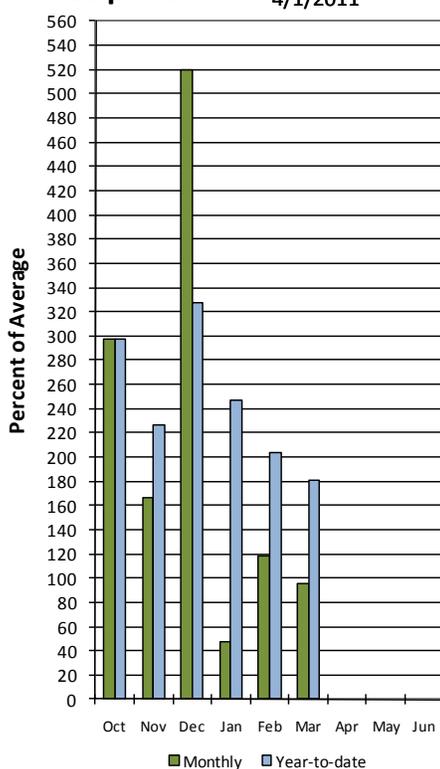
### Southwest Utah

#### Snowpack

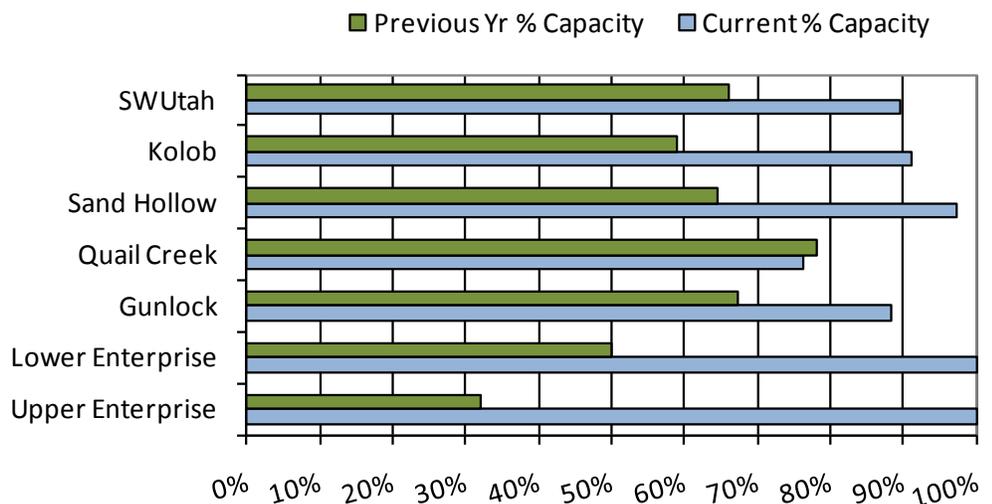


### Southwest Utah

#### Precipitation



### April Southwest Utah Reservoir Storage





E. GARFIELD, KANE, WASHINGTON, & IRON Co. as of April 1, 2011

E. GARFIELD, KANE, WASHINGTON, & IRON Co.  
Streamflow Forecasts - April 1, 2011

Forecast Point	Forecast Period	<<===== Drier =====>>		Future Conditions		===== Wetter =====>>		30-Yr Avg. (1000AF)
		90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	
Lake Powell Inflow (2)	APR-JUL	7200	8260	9500	120	10800	12300	7930
Virgin R at Virgin	APR-JUL	90	102	110	172	119	132	64
Virgin R nr Hurricane	APR-JUL	91	107	119	173	132	151	69
Santa Clara R nr Pine Valley	APR-JUL	6.70	8.00	9.00	164	10.00	11.60	5.50
Coal Ck nr Cedar City	APR-JUL	31	35	38	197	41	45	19.3

E. GARFIELD, KANE, WASHINGTON, & IRON Co.  
Reservoir Storage (1000 AF) - End of March

E. GARFIELD, KANE, WASHINGTON, & IRON Co.  
Watershed Snowpack Analysis - April 1, 2011

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
GUNLOCK	10.4	9.2	7.0	4.5	VIRGIN RIVER	5	111	183
LAKE POWELL	24322.0	12837.0	13708.0	---	PAROWAN	2	128	165
QUAIL CREEK	40.0	30.5	31.2	31.0	ENTERPRISE TO NEW HARMONY	2	35	93
UPPER ENTERPRISE	10.0	10.0	3.2	---	COAL CREEK	2	128	180
LOWER ENTERPRISE	2.6	2.6	1.3	137.1	ESCALANTE RIVER	2	89	98
					SOUTHWESTERN UTAH	9	99	158

\* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

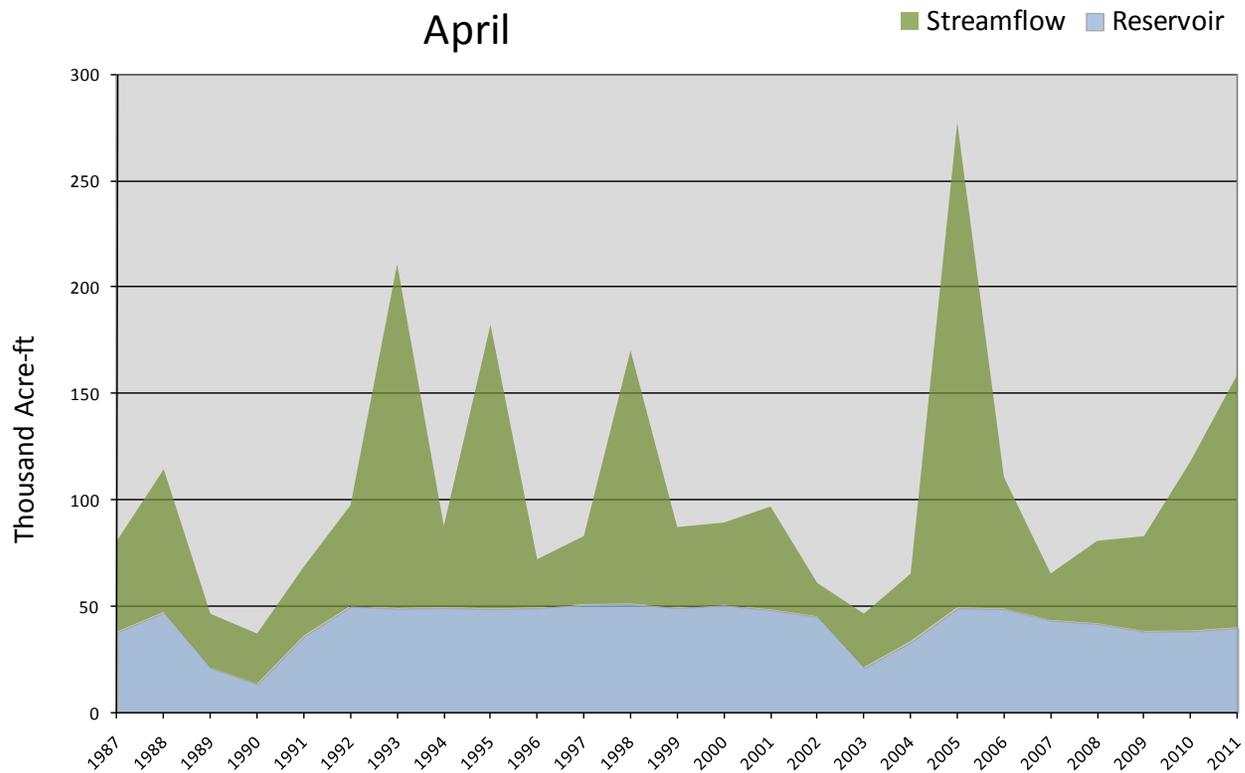
The average is computed for the 1971-2000 base period.

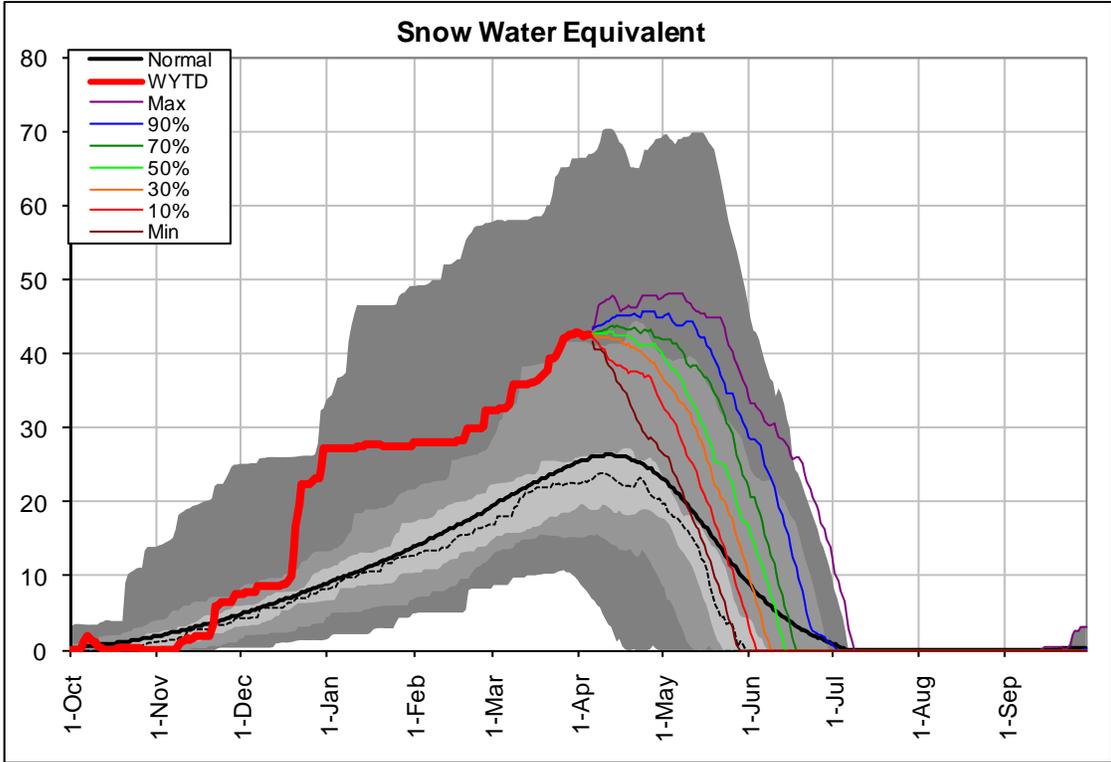
- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.
- (3) - Median value used in place of average.

April 1, 2011		Surface Water Supply Index				
Basin or Region	March EOM* Quail Creek and Gunlock Reservoirs	April-July forecast Virgin and Santa Clara Rivers	Reservoir + Streamflow	SWSI#	Percentile	Years with similar SWSI
	<i>KAF</i> <sup>^</sup>	<i>KAF</i>	<i>KAF</i>		%	
<b>Southwest</b>	<b>39.7</b>	<b>119</b>	<b>159</b>	<b>2.56</b>	<b>81</b>	<b>88, 10, 98, 95</b>

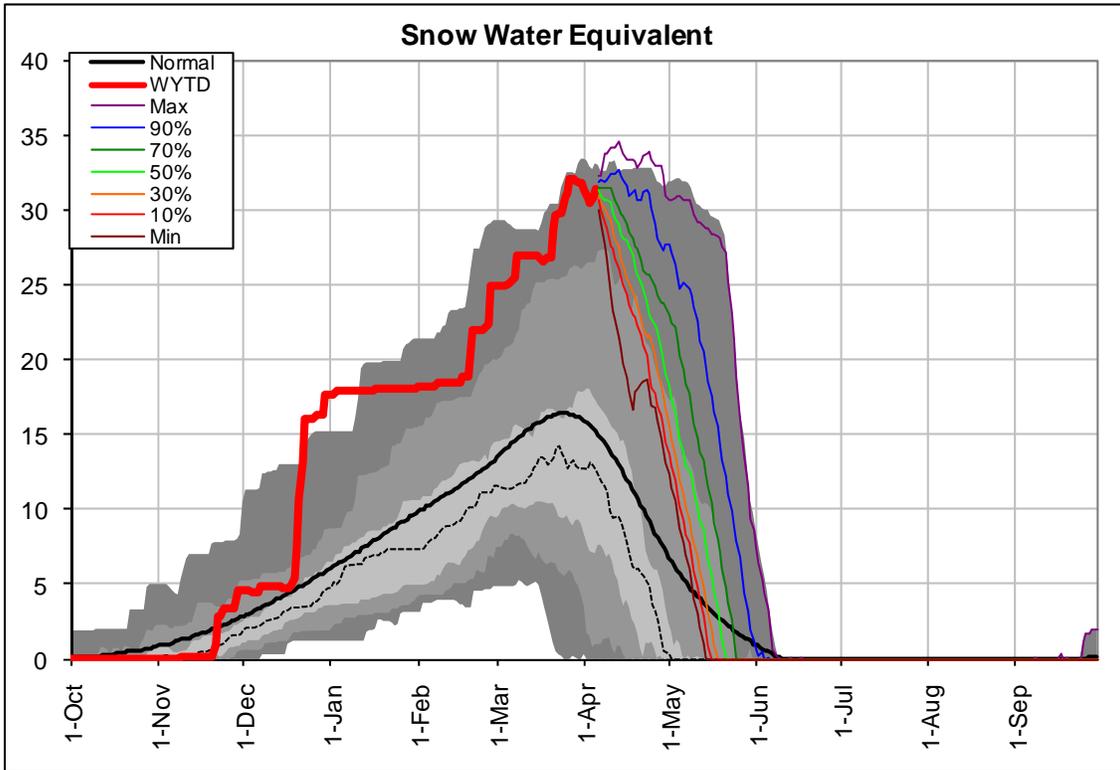
*\*EOM, end of month; #SWSI, Surface Water Supply Index; ^KAF, thousand acre-feet.*

Virgin River Surface Water Supply Index  
April

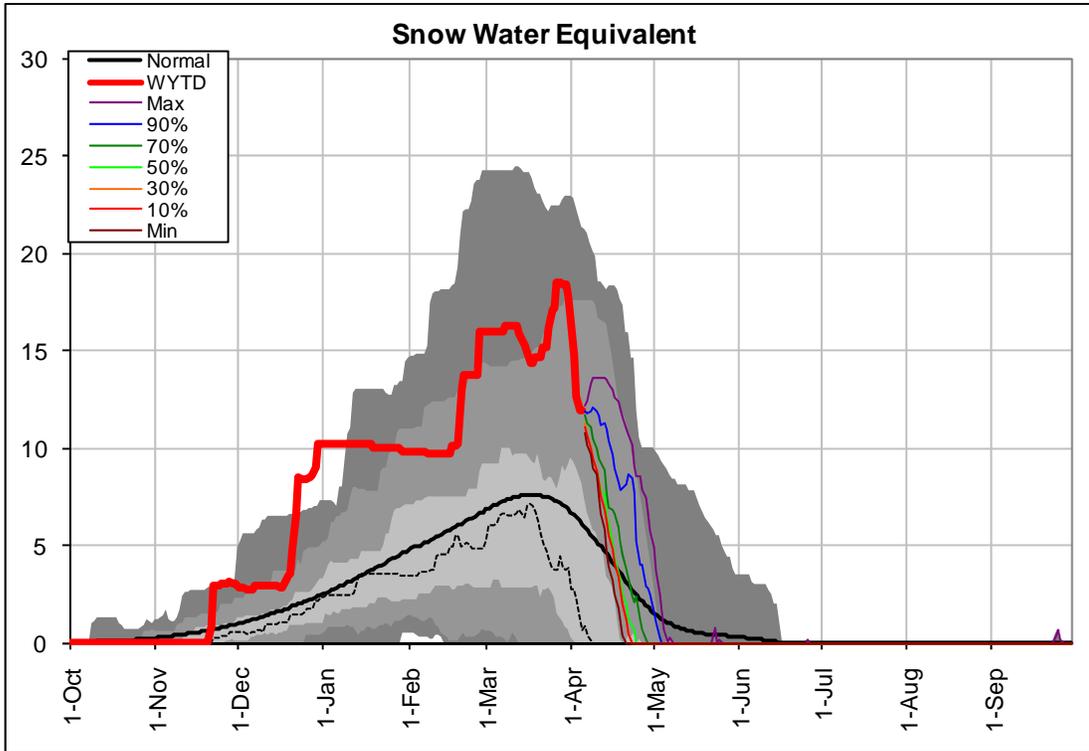




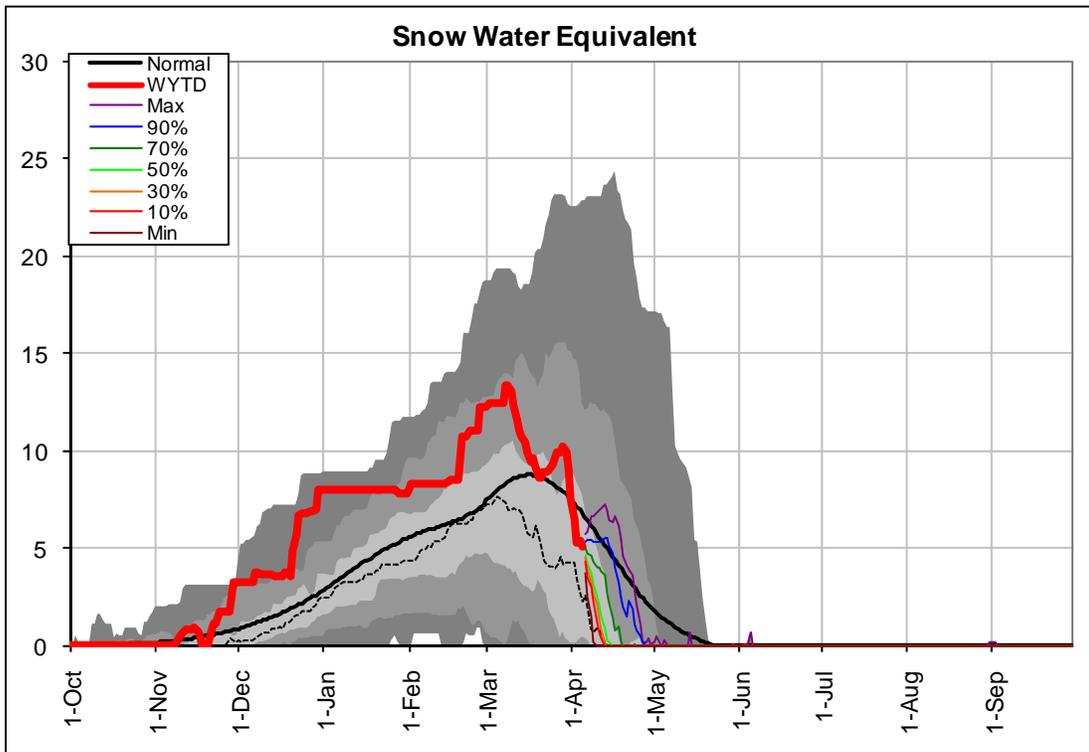
Midway Valley SNOTEL



Webster Flat SNOTEL



Harris Flat SNOTEL



Long Flat SNOTEL