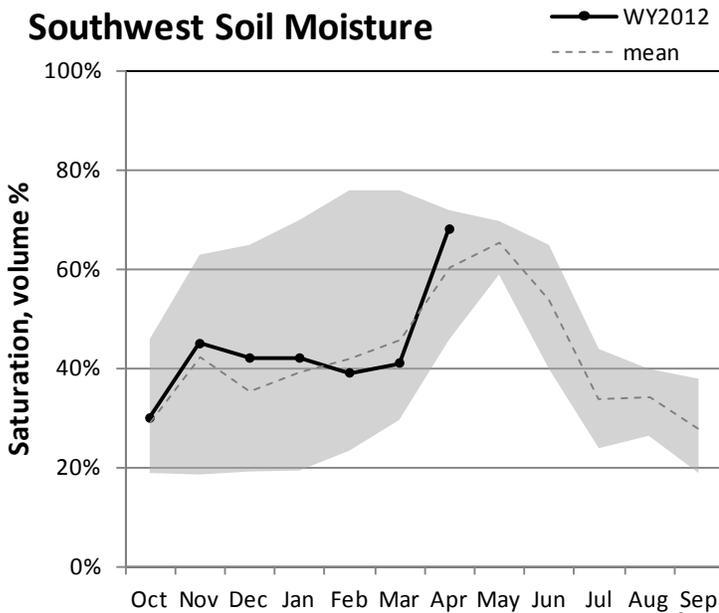


## E. Garfield, Kane, Washington, & Iron Co. April 1, 2012

Snowpacks in this region are much below average at 54%, which is 36% of last year. Individual sites range from bare, to 84% of average at Donkey Reservoir Snotel. March precipitation was below average at 72%, bringing the seasonal accumulation (Oct-Mar) to 83% of average. The average soil moisture estimate in runoff producing areas is at 68% of saturation within the upper 2 feet of soil, compared to 69% last year. Forecast streamflows (Apr-July) range from 32% to 44% of average. Reservoir storage is at 81% of capacity, 8% lower than last year at this time. The Surface Water Supply Index is at 30%, indicating much below average water supply conditions.

### Southwest Soil Moisture

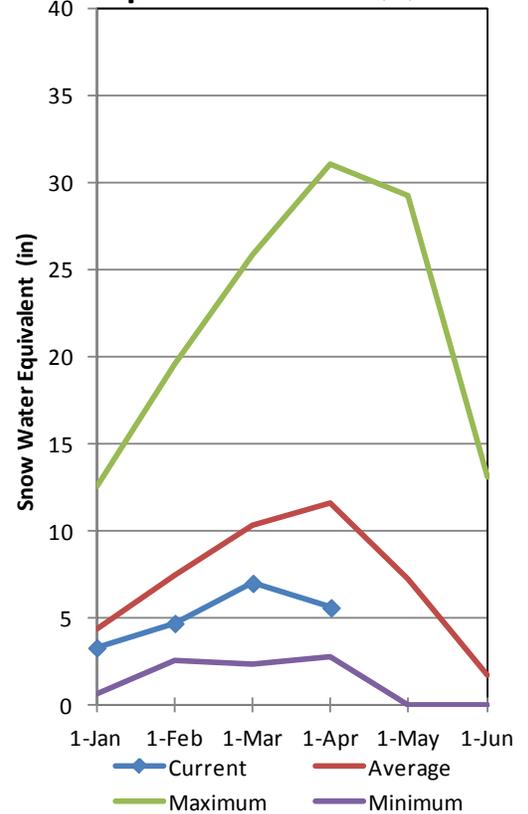


Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep  
Percent saturation is calculated using the weighted average of volumetric soil moisture content at 2, 8, and 20-inch depths. Saturation is estimated as 40% volumetric water content. The gray area represents the range in saturation values since 2005.

### Southwest Utah

#### Snowpack

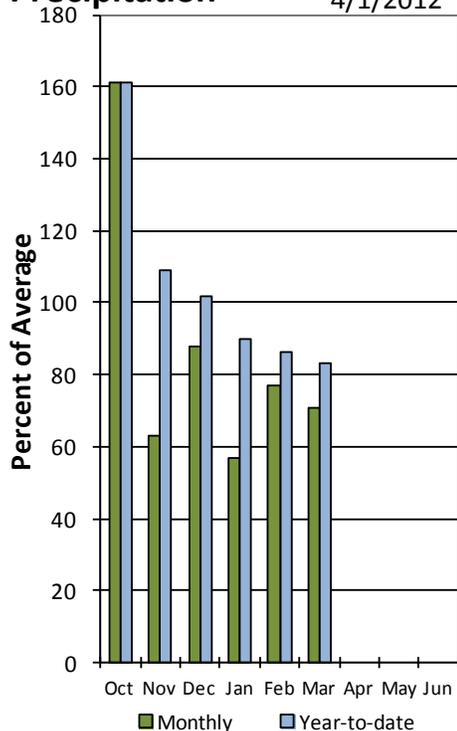
4/1/2012



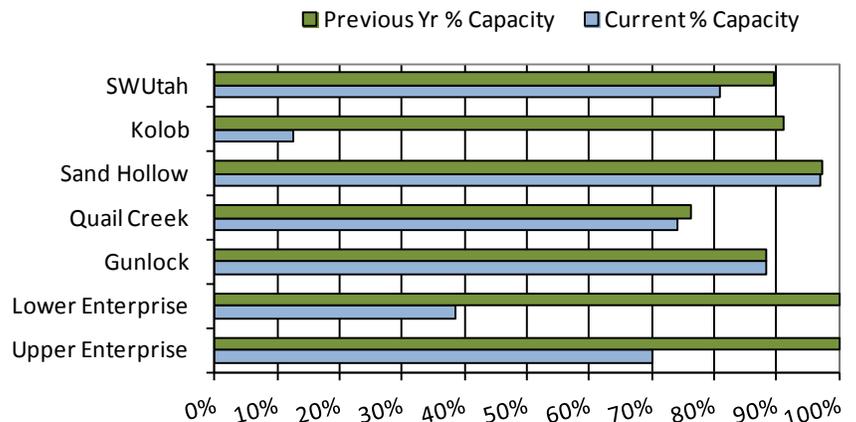
### Southwest Utah

#### Precipitation

4/1/2012



### April Southwest Utah Reservoir Storage



April 1, 2012

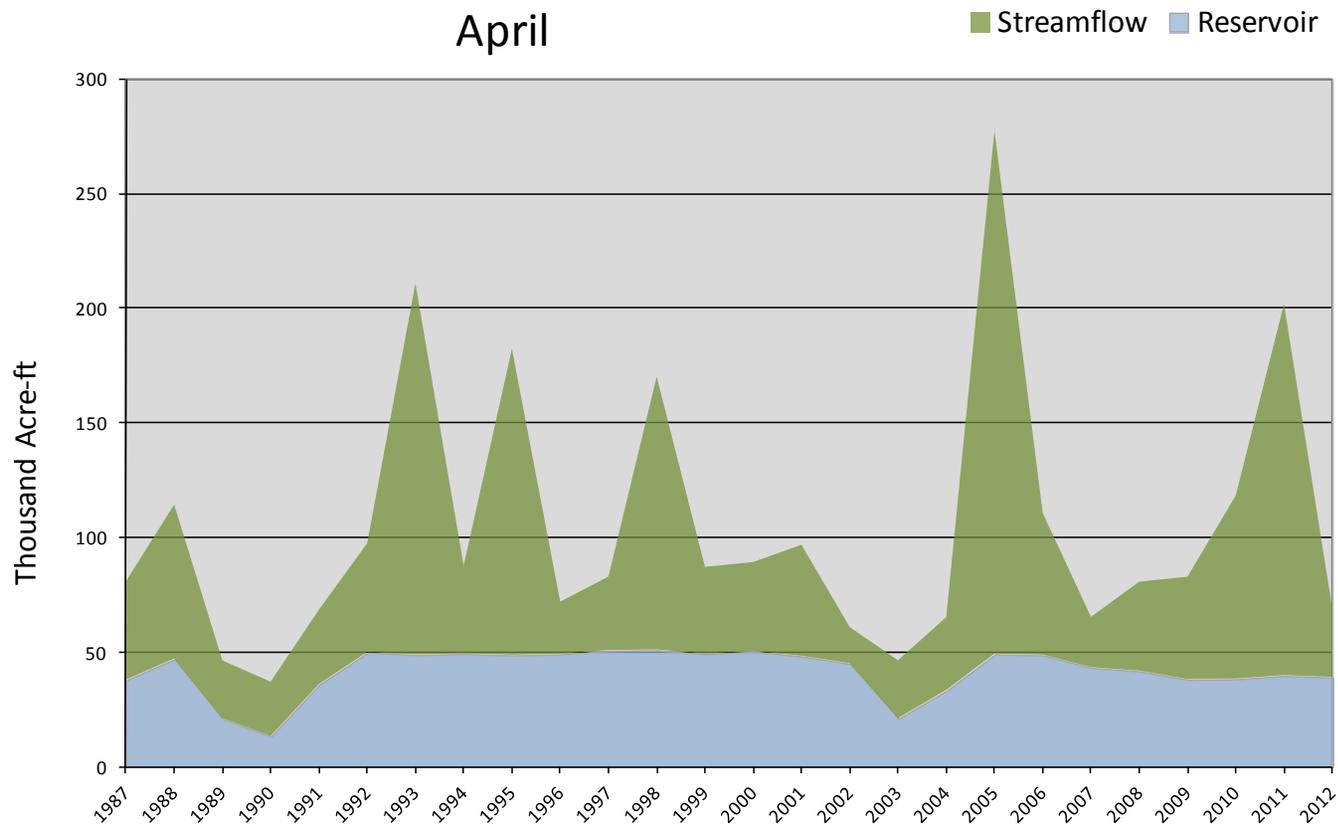
## Surface Water Supply Index

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
	KAF^	KAF	KAF		%	
<b>Virgin River</b>	<b>38.9</b>	<b>30.0</b>	<b>68.9</b>	<b>-1.70</b>	<b>30</b>	<b>07,91,96,08</b>

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

### Virgin River Surface Water Supply Index

April





E. GARFIELD, KANE, WASHINGTON, & IRON Co.  
Streamflow Forecasts - April 1, 2012

Forecast Point	Forecast Period	<<==== Drier ==== Future Conditions ===== Wetter =====>>		Chance Of Exceeding *				30-Yr Avg. (1000AF)
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
Lake Powell Inflow (2)	APR-JUL	1840	2760	3500	44	4320	5690	7930
Virgin R at Virgin	APR-JUL	18.4	24	28	44	32	40	64
Virgin R nr Hurricane	APR-JUL	14.0	19.7	25	36	31	41	69
Santa Clara R nr Pine Valley	APR-JUL	1.02	1.56	2.00	36	2.50	3.30	5.50
Coal Ck nr Cedar City	APR-JUL	2.2	6.2	9.0	47	11.8	15.8	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, 2012

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	9.2	4.5	VIRGIN RIVER	5	27	47
LAKE POWELL	24322.0	15465.0	12837.0	---	PAROWAN	2	36	59
QUAIL CREEK	40.0	29.7	30.5	31.0	ENTERPRISE TO NEW HARMONY	2	0	0
UPPER ENTERPRISE	10.0	7.0	10.0	---	COAL CREEK	2	31	55
LOWER ENTERPRISE	2.6	1.0	2.6	137.1	ESCALANTE RIVER	2	60	67
					SOUTHWESTERN UTAH	9	32	48

\* 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.