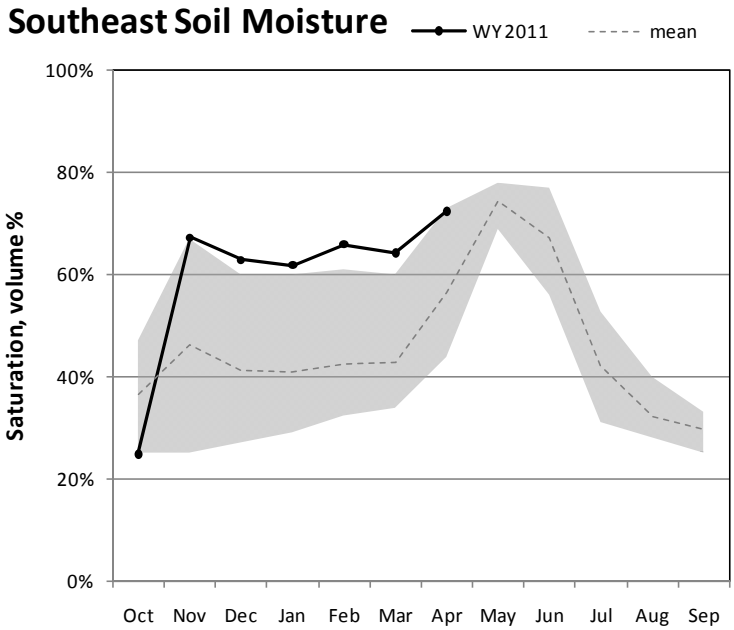
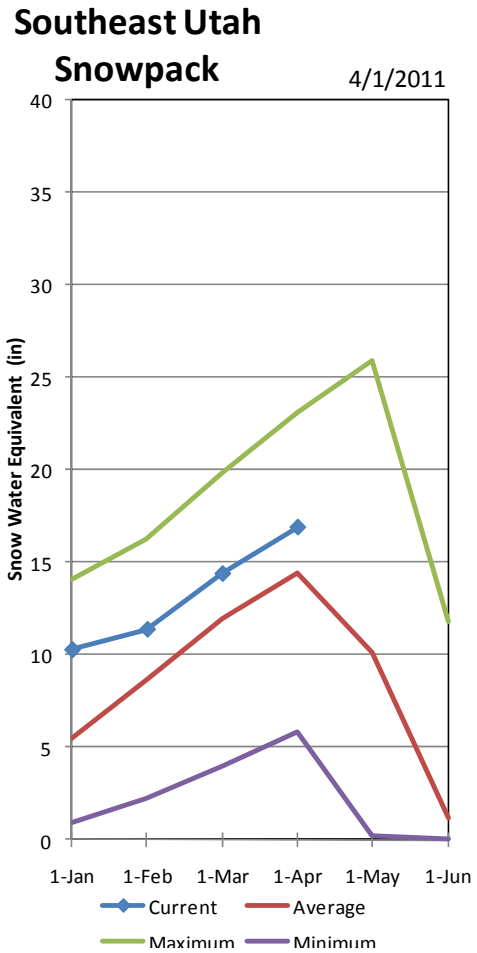
Southeast - Carbon, Emery, Wayne, Grand and San Juan Counties

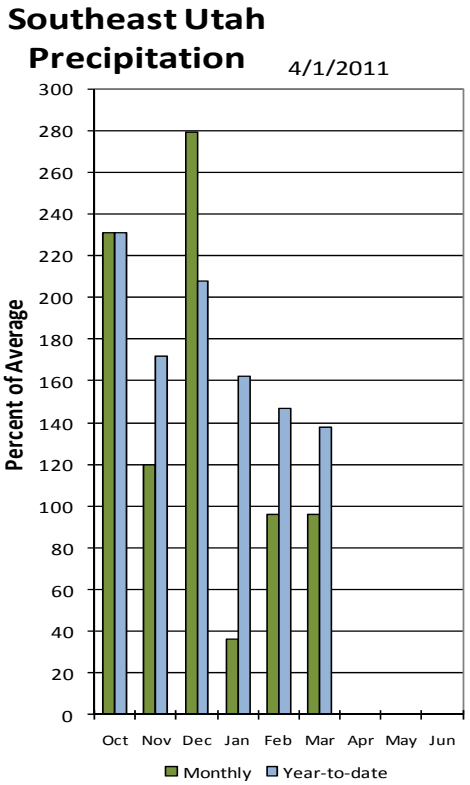
April 1, 2011

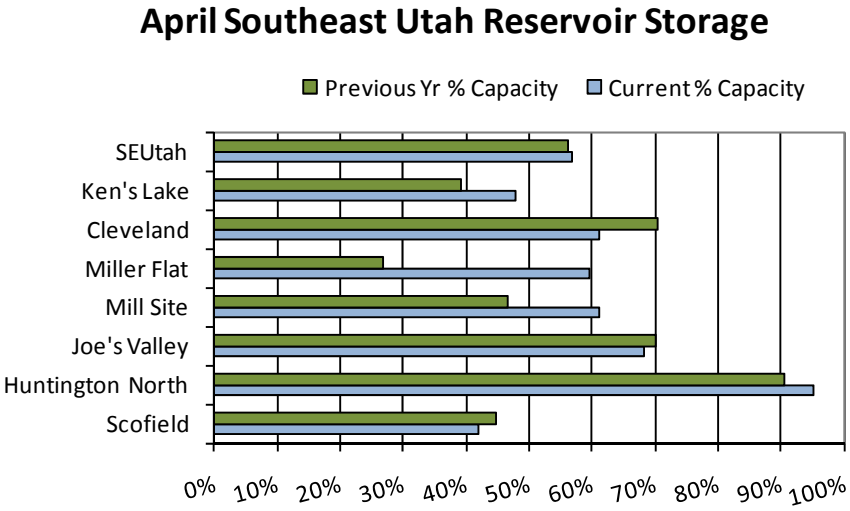
Snowpacks in this region are much above normal at 117% of average, about 127% of last year. Percent of average snowpack for individual sites range from 81% at Lasal Mountain Lower to 184% at White River #3. Precipitation during March was average at 96%, bringing the seasonal accumulation (Oct-Mar) to 138% of normal. Soil moisture estimates in runoff producing areas are at 72% of saturation in the upper 2 feet of soil, compared to 44% last year at this time. Forecast streamflows (April-July) range from 54% to 151% of average. Reservoir storage is at 57% of capacity, 1% higher than last year at this time. Surface Water Supply Indices for the area are: Price 61%, Joe's Valley 83%, Ferron Creek 80%, and Moab 64%. General runoff and water supply conditions are much above average in Joe's Valley and Ferron Creek areas and above average in the Price and Moab areas.



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.







Carbon, Emery, Wayne Grand & San Juan Basins

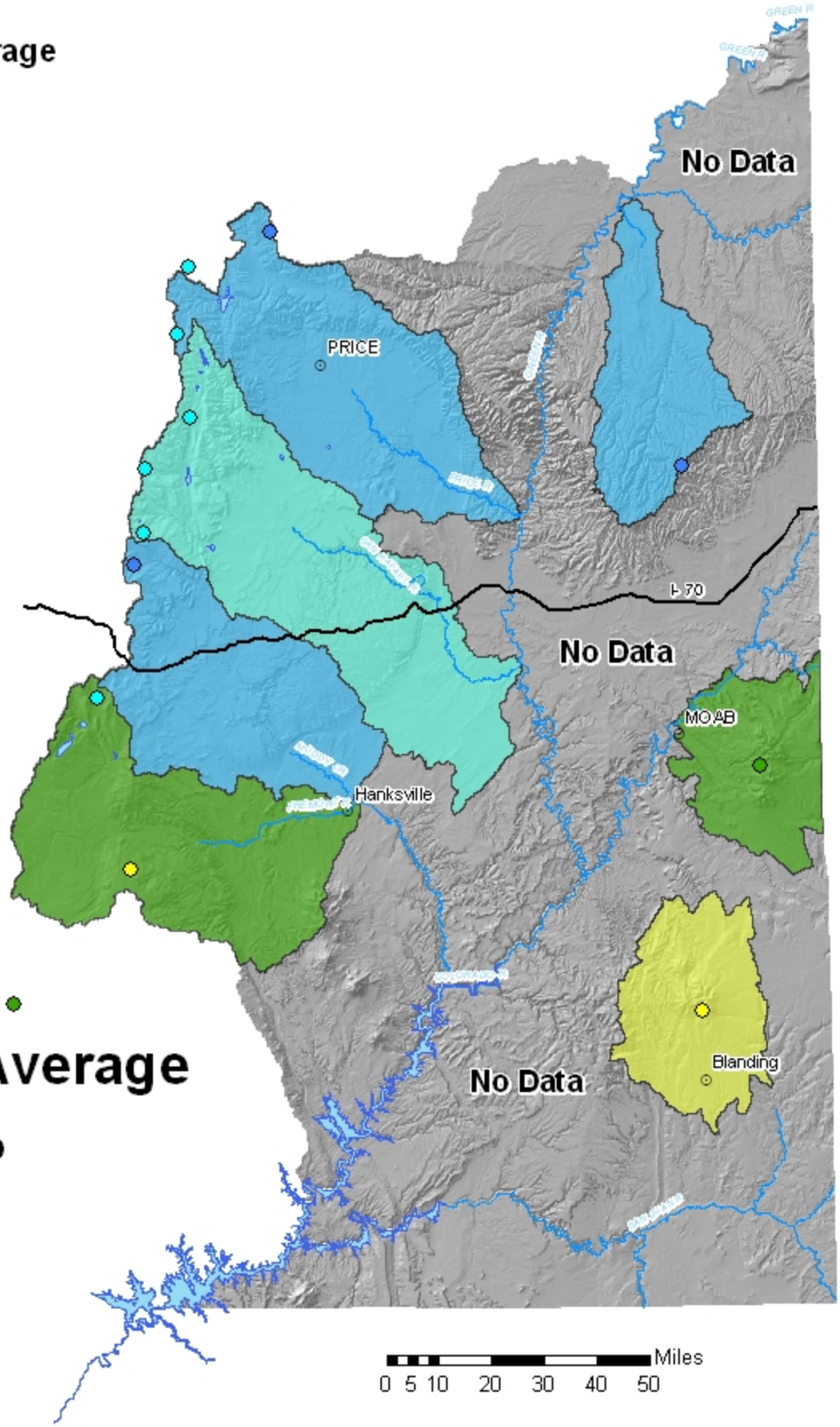
N

Watershed % of Average

- 0
- <50%
- 50 - 69%
- 70 - 89%
- 90 - 109%
- 110 - 129%
- 130 - 149%
- >150%

Snotel % of Average

- < 50%
- 50 - 69%
- 70 - 89%
- 90 - 109%
- 110 - 129%
- 130 - 149%
- > 150%



Basinwide Average
117%

Provisional Data Subject to Revision

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.
Streamflow Forecasts - April 1, 2011

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Fish Creek ab Reservoir nr Scofield	APR-JUL	33	40	45	140	50	58	32
Price R nr Scofield Reservoir (2)	APR-JUL	49	59	67	149	75	89	45
White R bl Tabbyune Ck	APR-JUL	19.1	23	25	145	28	32	17.3
Green R at Green River, UT (2)	APR-JUL	3290	4040	4600	145	5190	6140	3170
Huntington Ck nr Huntington (2)	APR-JUL	45	56	63	129	71	84	49
Joe's Valley Reservoir Inflow (2)	APR-JUL	50	61	70	121	79	94	58
Ferron Ck (Upper Station) nr Ferron	APR-JUL	39	45	50	128	55	63	39
Seven Mile Ck nr Fish Lake	APR-JUL	5.90	7.70	9.00	129	10.40	12.70	7.00
Colorado R nr Cisco	APR-JUL	4300	4940	5500	118	6090	7000	4650
Muddy Ck nr Emery	APR-JUL	22	27	30	151	34	40	19.9
Pine Ck nr Escalante	APR-JUL	1.64	2.40	3.00	125	3.70	4.80	2.40
South Ck ab Lloyd's Reservoir nr Mon	MAR-JUL	0.31	0.54	0.75	54	1.02	1.52	1.38
	APR-JUL	0.27	0.50	0.71	53	0.98	1.48	1.34
San Juan R nr Bluff (2)	APR-JUL	550	710	850	69	960	1120	1230

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
HUNTINGTON NORTH	4.2	4.0	3.8	3.9
JOE'S VALLEY	61.6	42.1	43.2	41.4
KEN'S LAKE	2.3	1.1	0.9	1.4
MILL SITE	16.7	10.2	7.8	8.6
SCOFIELD	65.8	27.6	29.4	34.7

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.
Watershed Snowpack Analysis - April 1, 2011

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
PRICE RIVER	3	189	130
SAN RAFAEL RIVER	3	161	116
MUDDY CREEK	1	177	132
FREMONT RIVER	3	94	107
LASAL MOUNTAINS	1	72	90
BLUE MOUNTAINS	1	54	89
WILLOW CREEK	1	84	136
SOUTHEASTERN UTAH	13	129	117

* 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.

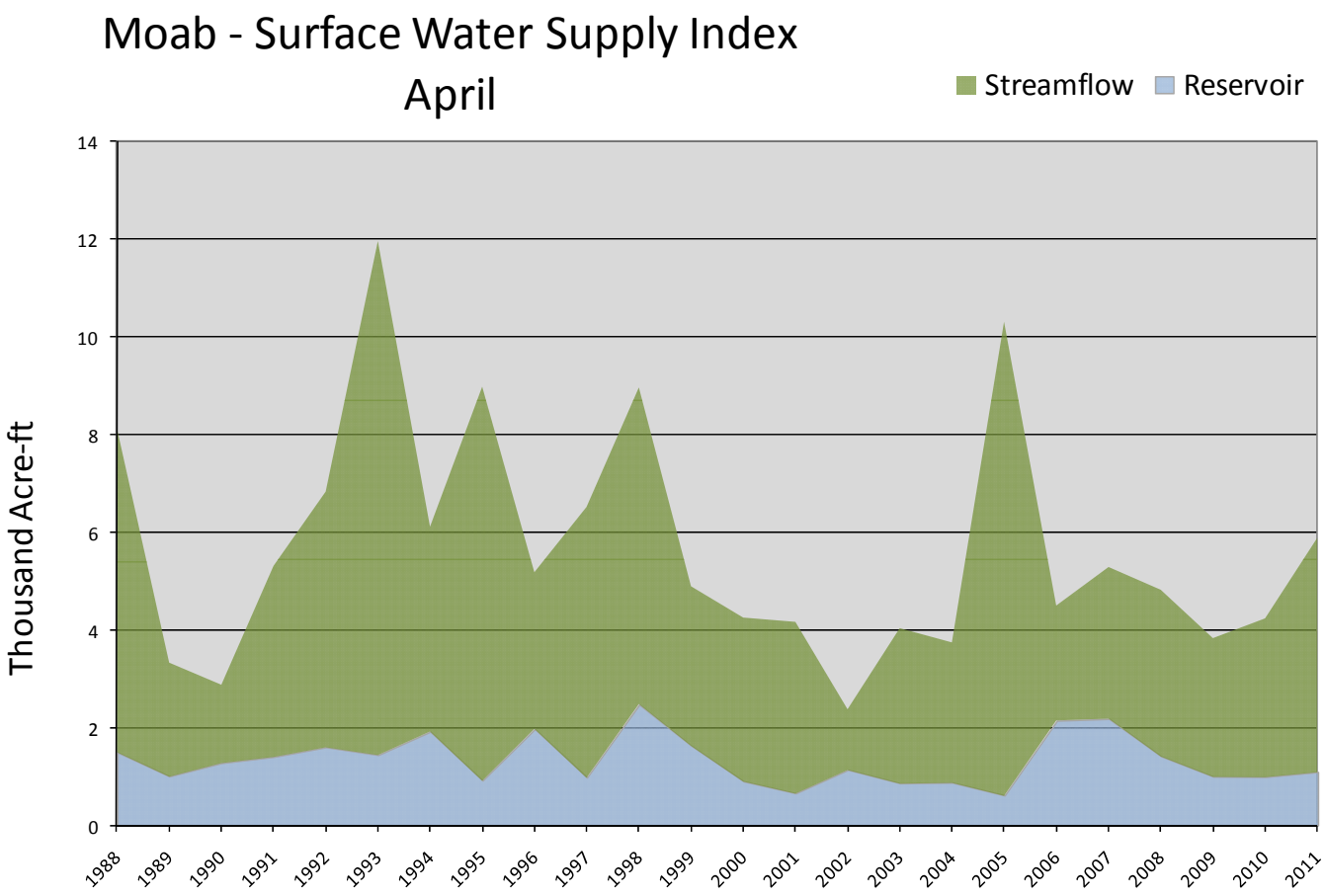
(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

April 1, 2011

Surface Water Supply Index

Basin or Region	March EOM* Ken's Lake Reservoir	April-July Forecast Mill Creek at Sheley	Reservoir + Streamflow	SWSI#	Percentile	Years with similar SWSI
	*KAF^*	*KAF*	*KAF*		*%*	
Moab	**1.1**	**4.8**	**5.9**	**1.17**	**64**	**07, 91, 94, 97**

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

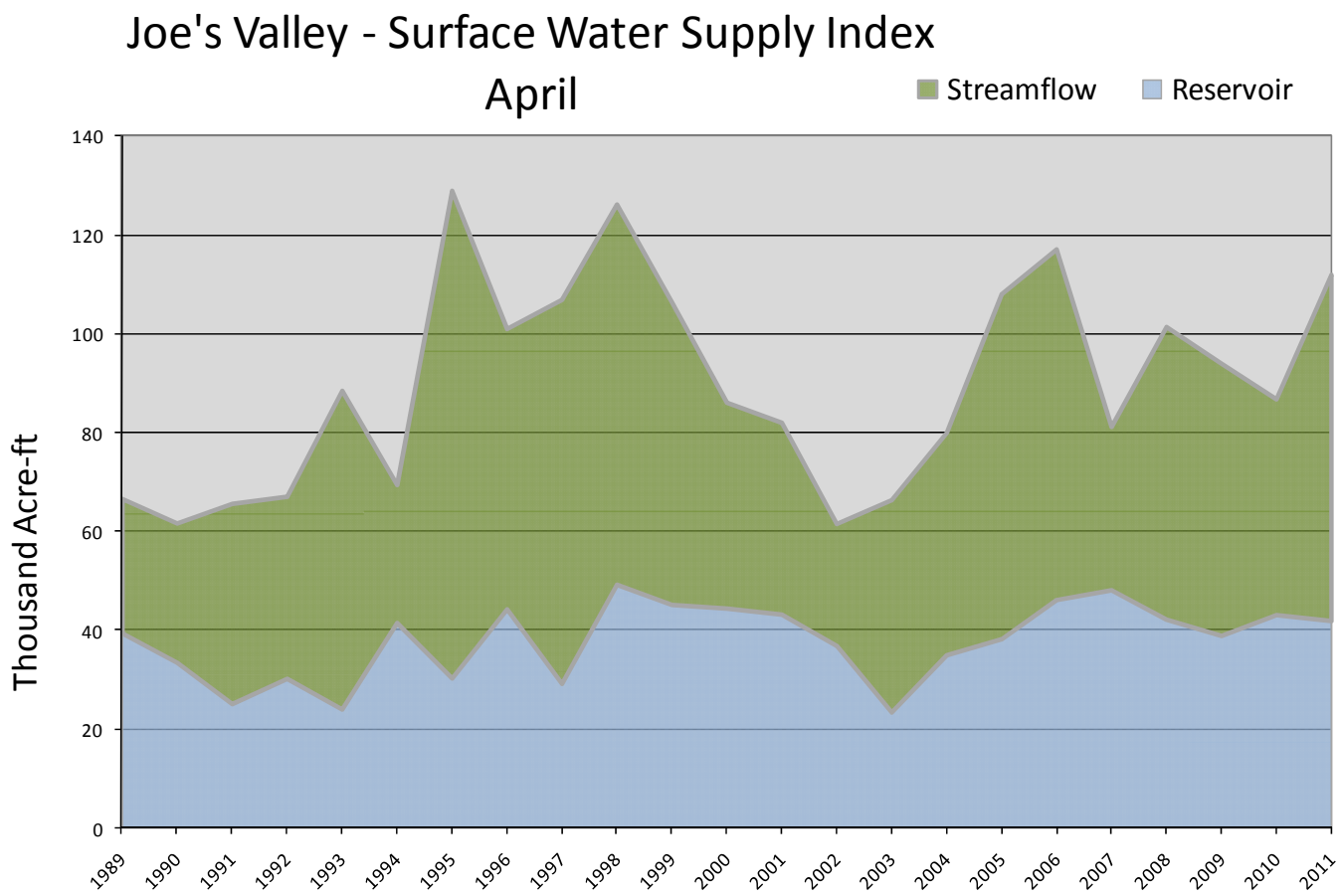


April 1, 2011

Surface Water Supply Index

Basin or Region	March EOM* Joe's Valley	April-July Forecast Inflow to Joe's Valley	Reservoir + Streamflow	SWSI#	Percentile	Years with similar SWSI
	*KAF^*	*KAF*	*KAF*		*%*	
Joe's Valley	**42.1**	**70.0**	**112**	**2.78**	**83**	**97, 05, 06, 98**

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

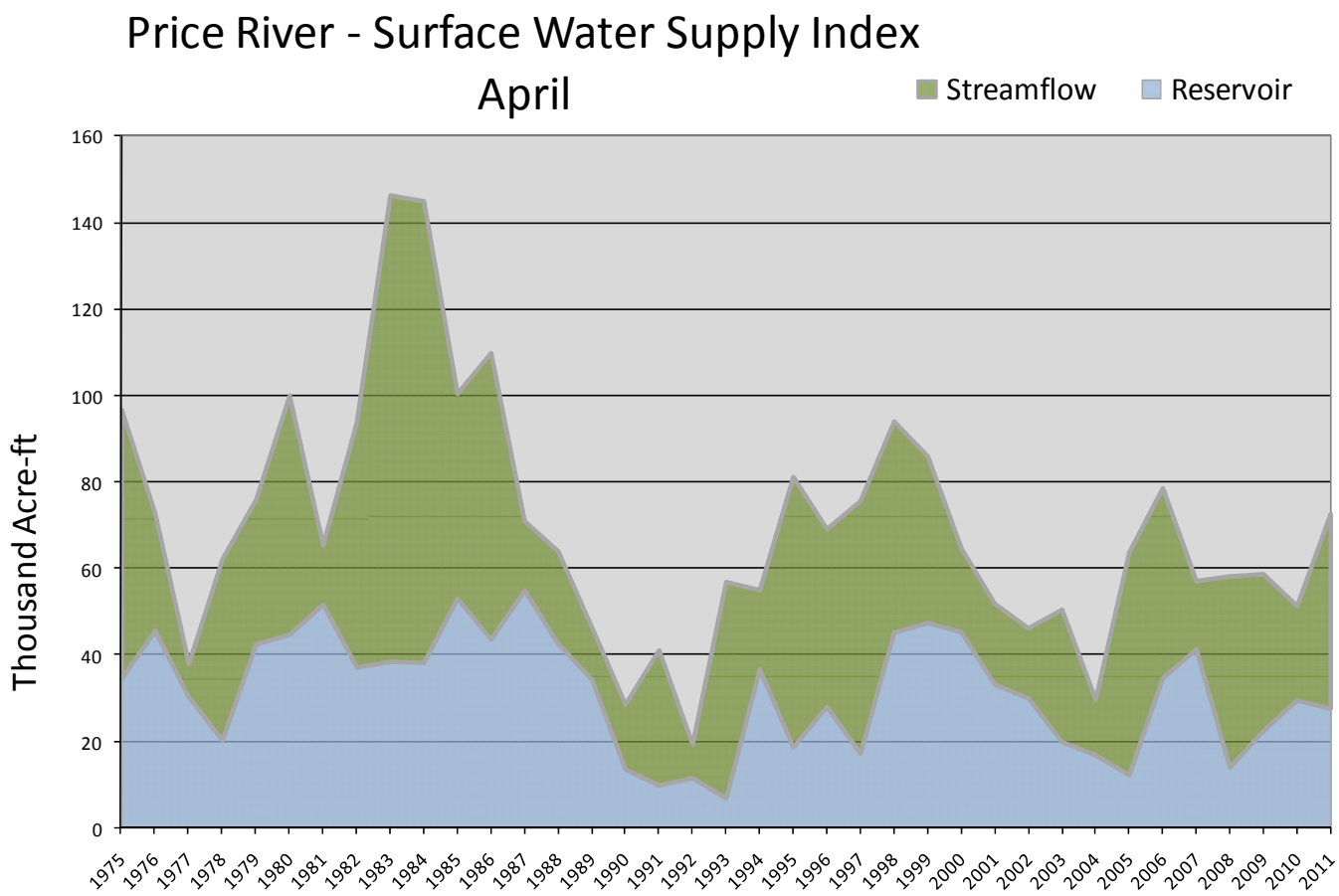


April 1, 2011

Surface Water Supply Index

Basin or Region	March EOM* Scofield Reservoir	April-July Forecast Scofield	Reservoir + Streamflow	SWSI#	Percentile	Years with similar SWSI
	*KAF^*	*KAF*	*KAF*		*%*	
Price River	**27.6**	**45.0**	**72.6**	**0.88**	**61**	**96, 87, 76, 97**

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

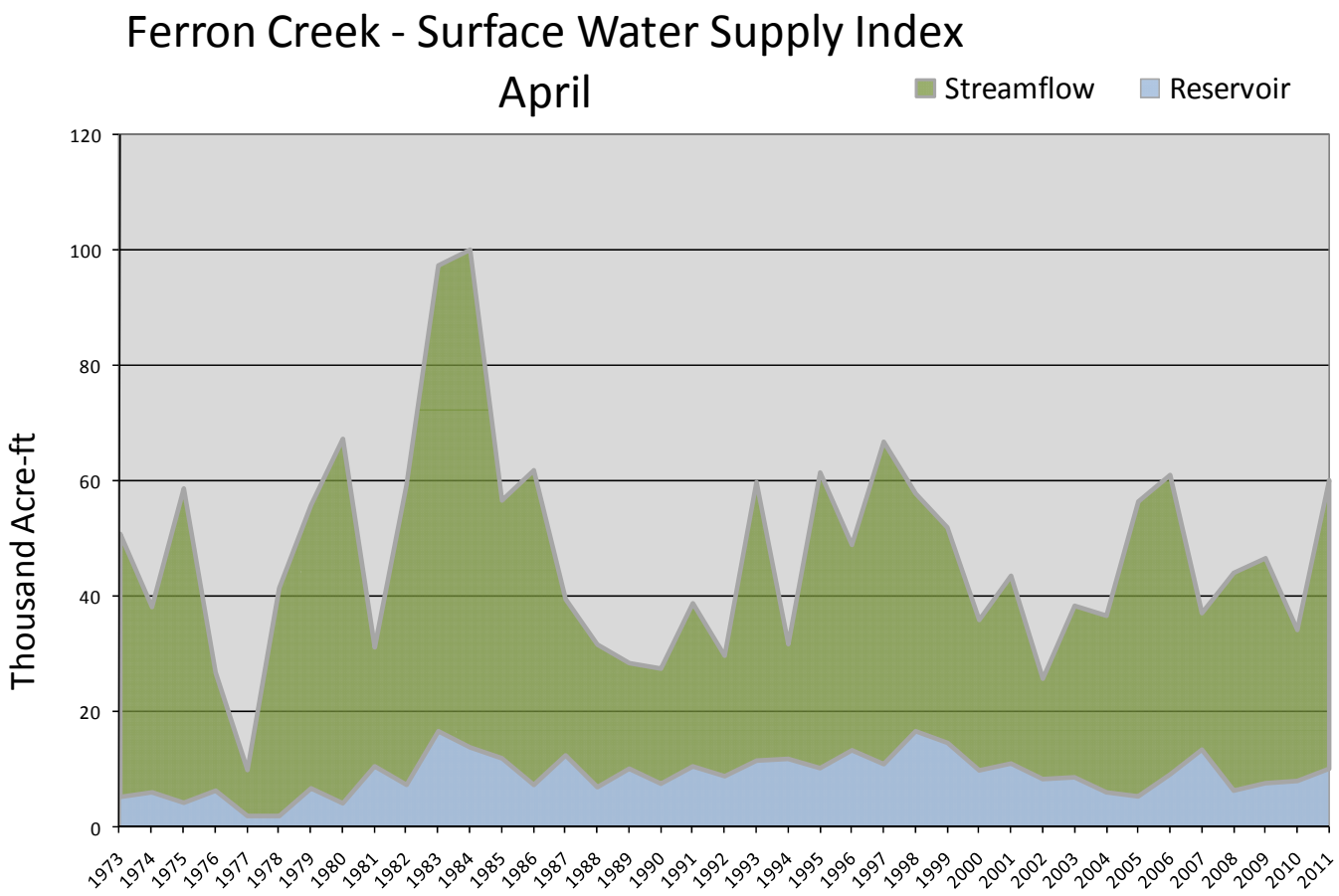


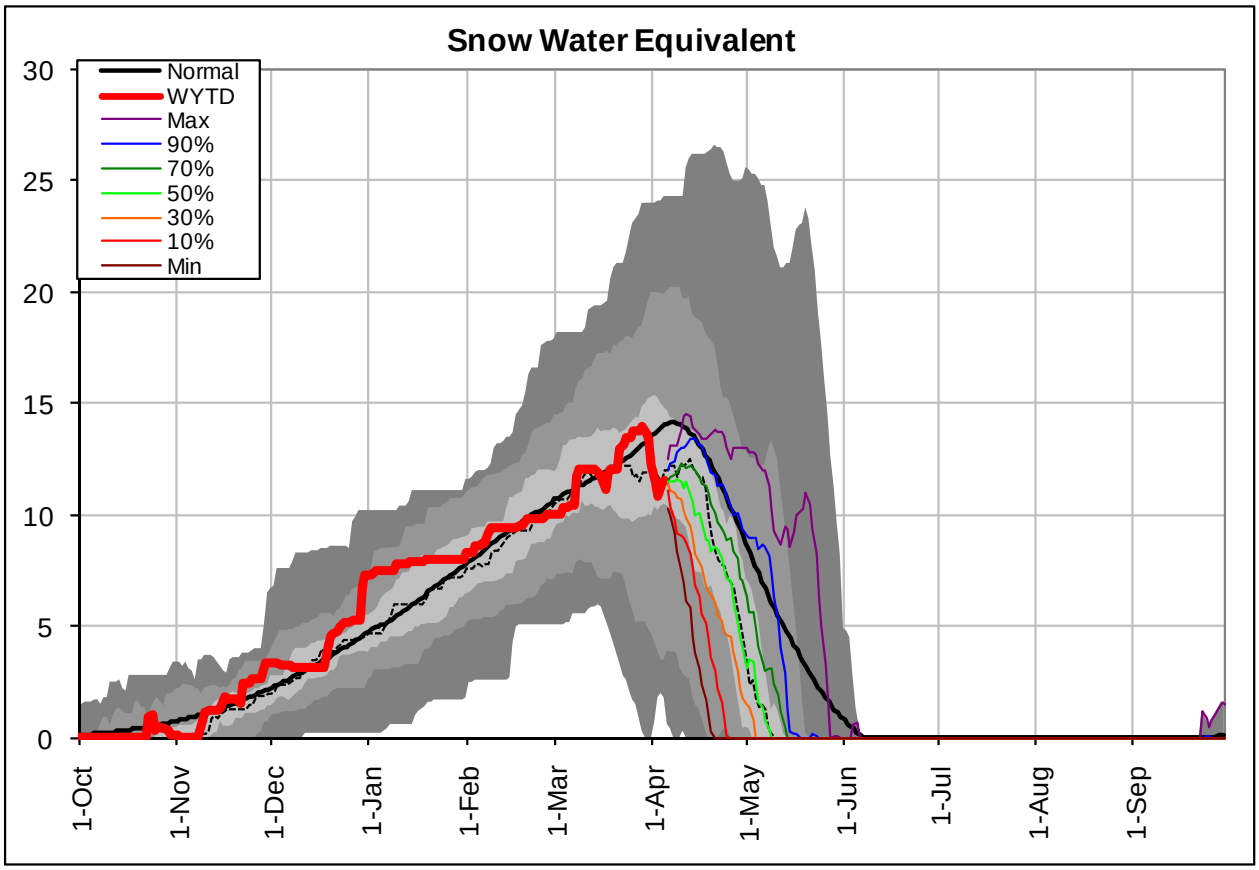
April 1, 2011

Surface Water Supply Index

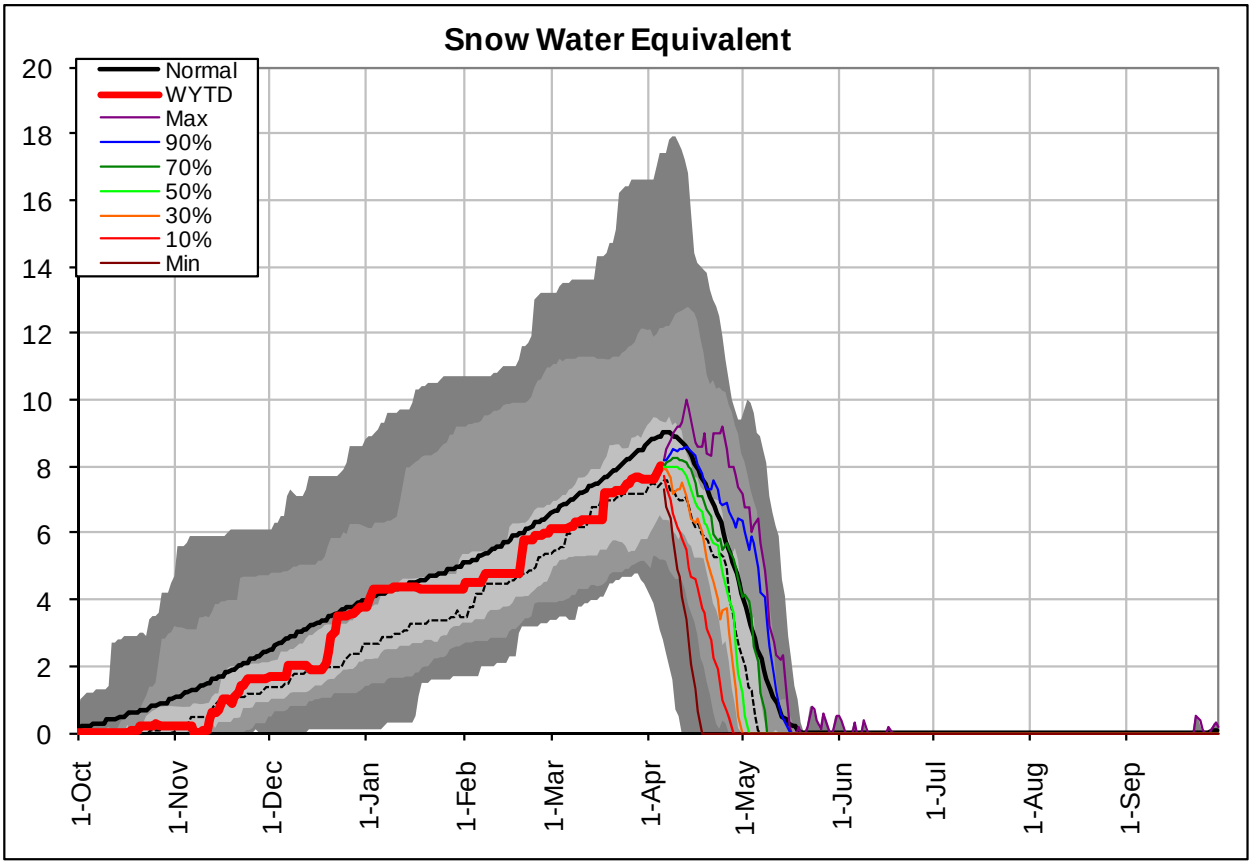
Basin or Region	March EOM* Millsite Reservoir	April-July Forecast Ferron creek	Reservoir + Streamflow	SWSI#	Percentile	Years with similar SWSI
	*KAF^*	*KAF*	*KAF*		*%*	
Ferron Creek	**10.2**	**50.0**	**60.2**	**2.50**	**80**	**82, 93, 06, 95**

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

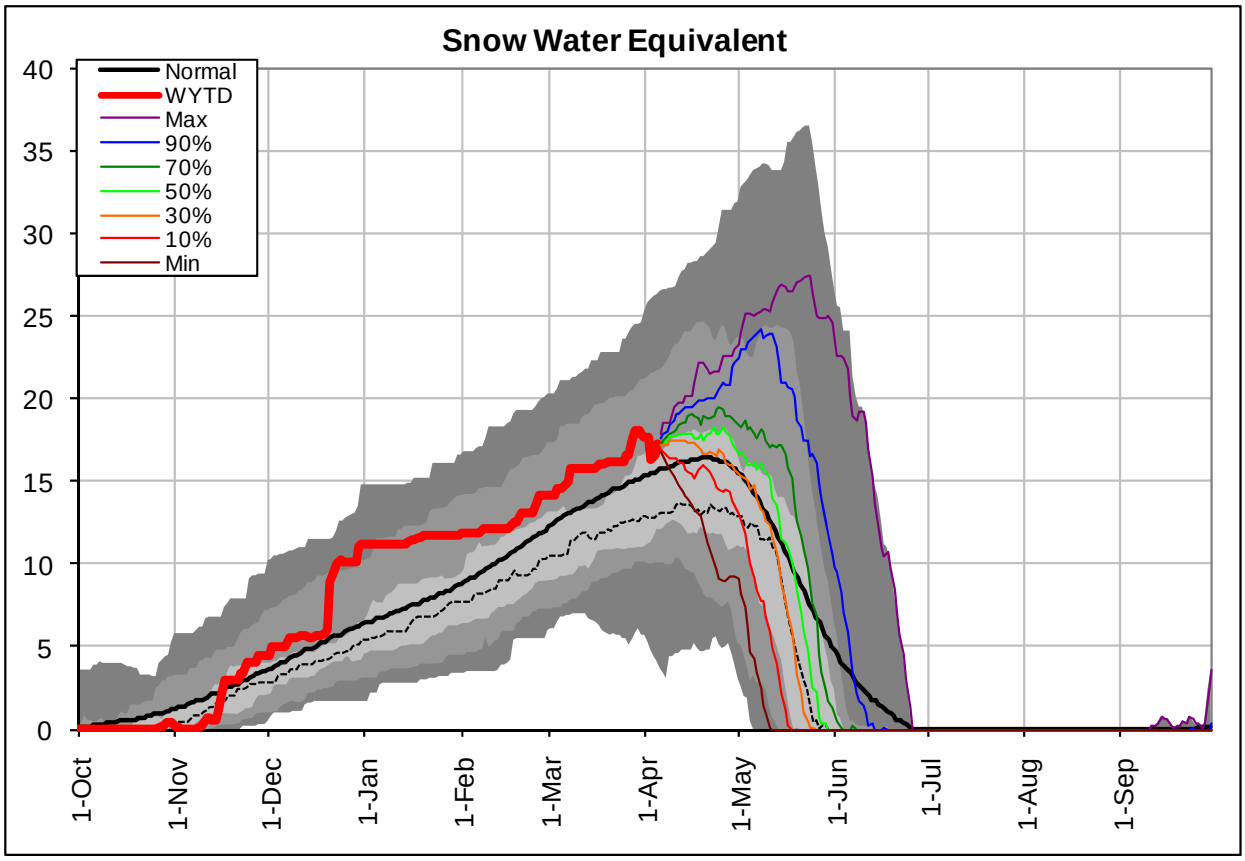




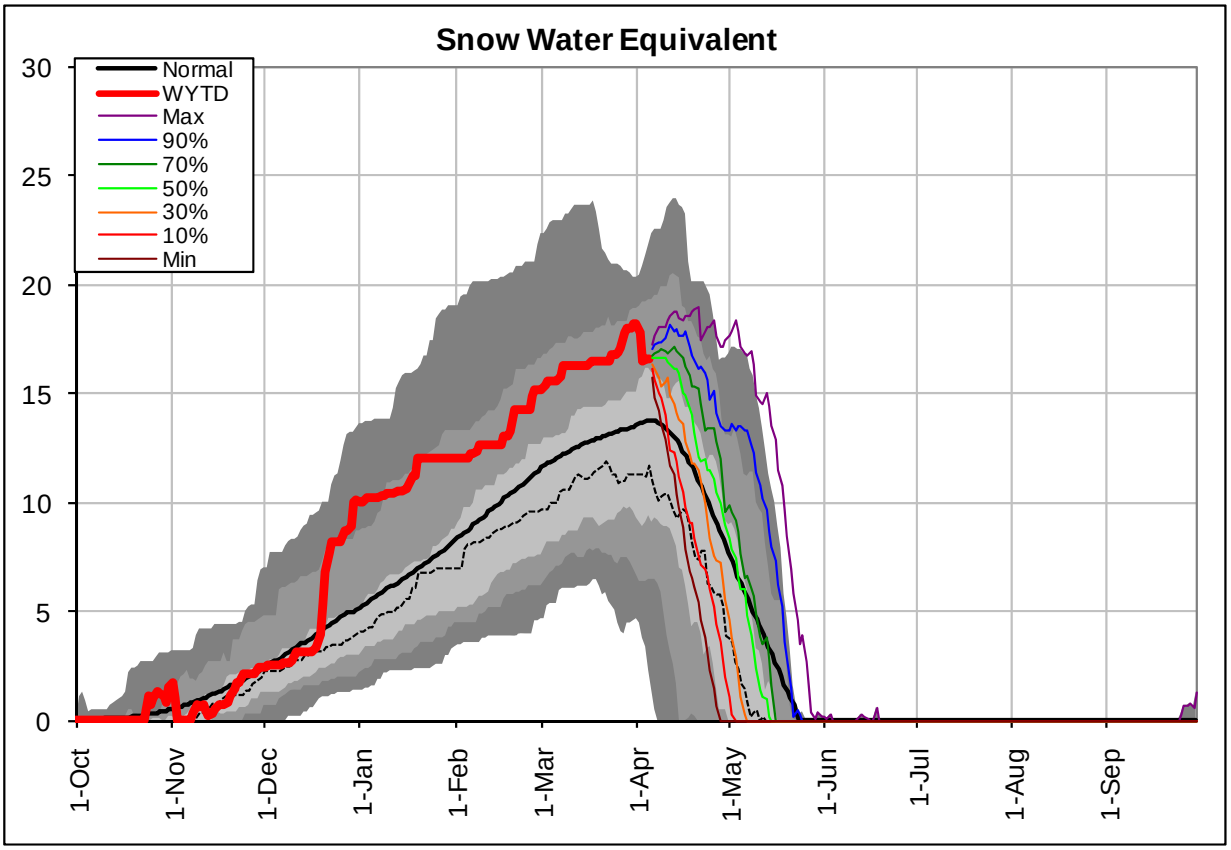
Lasal Mountain SNOTEL



Donkey Reservoir SNOTEL



Seeley Creek SNOTEL



White River #1 SNOTEL