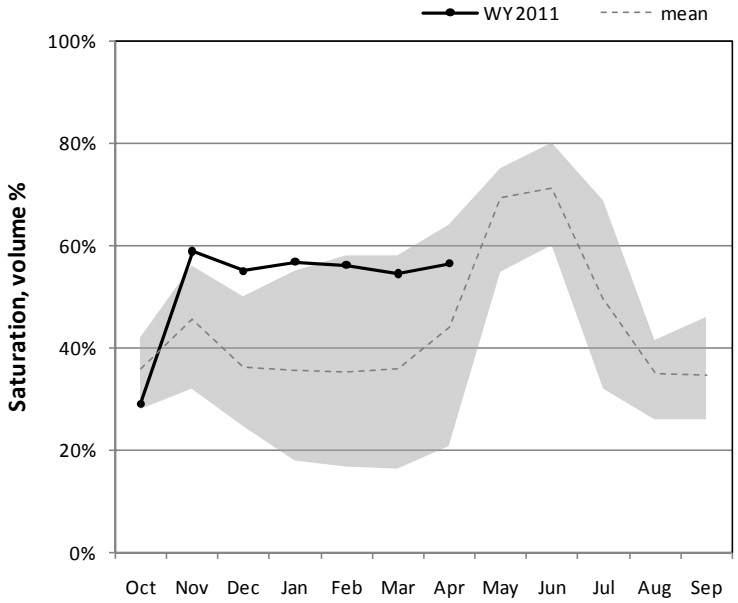
Uintah Basin and Dagget SCDs
April 1, 2011

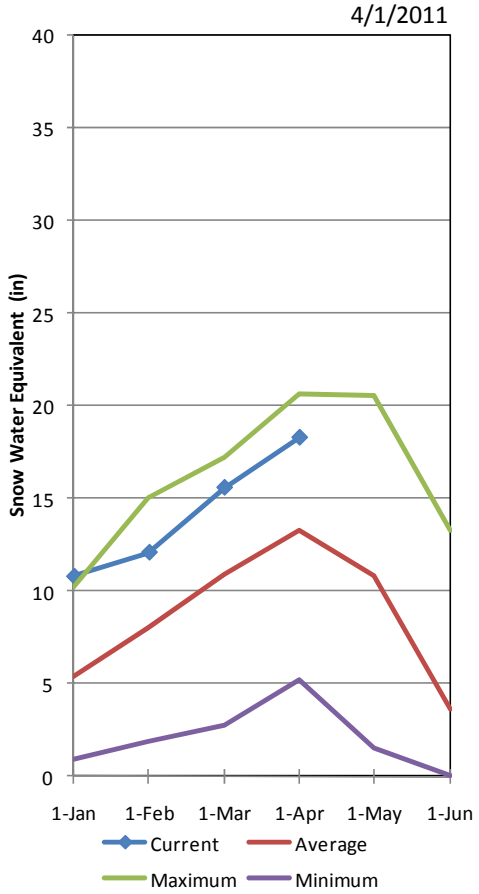
Snowpack across the Uintas is much above average at 138% which is 180% of last year. Percent of average snowpack for individual sites range from 110% to 138% on the North Slope and from 126% to 177% on the South Slope. Precipitation during March was above average at 84% bringing the seasonal accumulation (Oct-Mar) to 140%. Soil moisture values in runoff producing area are at 56% of saturation in the upper 2 feet of soil compared to 21% last year. Reservoir storage is at 85% of capacity, 1% lower at this time last year. Streamflow forecasts (April-July) range from 113% to 193% of average. The Surface Water Supply Index for the western area is 93% and for the eastern area it is 64% indicating much above normal conditions on the west side and above average on the eastern side. General water supply conditions are much above average.

Uintah Basin Soil Moisture

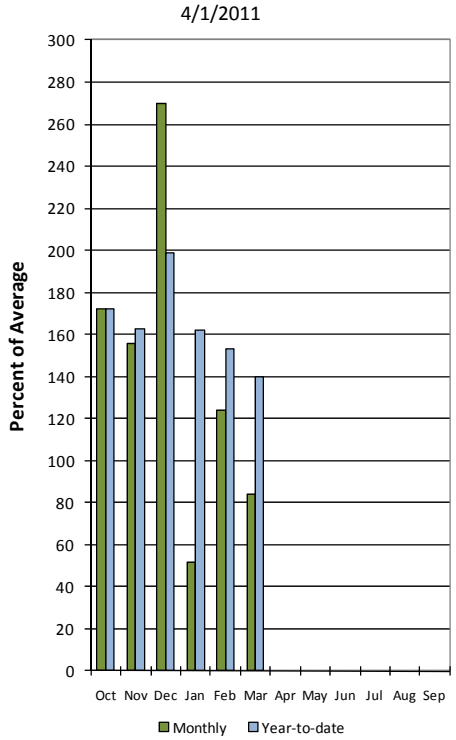


Percent saturation is calculated using the weighted average of volumetric soil moisture content at 2, 8, and 20-inch depths. Saturation is estimated as 40% volumetric water content. The gray area represents the range in saturation values since 2005.

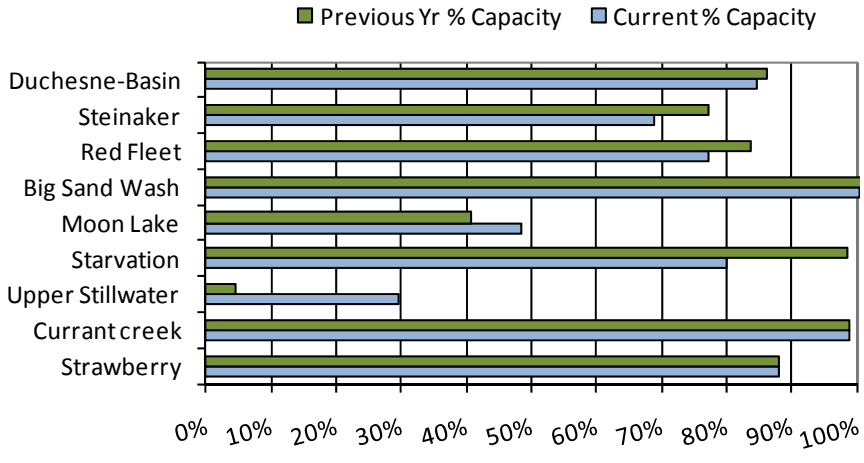
Uinta Snowpack



Uintah Precipitation



April Uintah Basin Reservoir Storage



Uintah Basin & Dagget SCD's

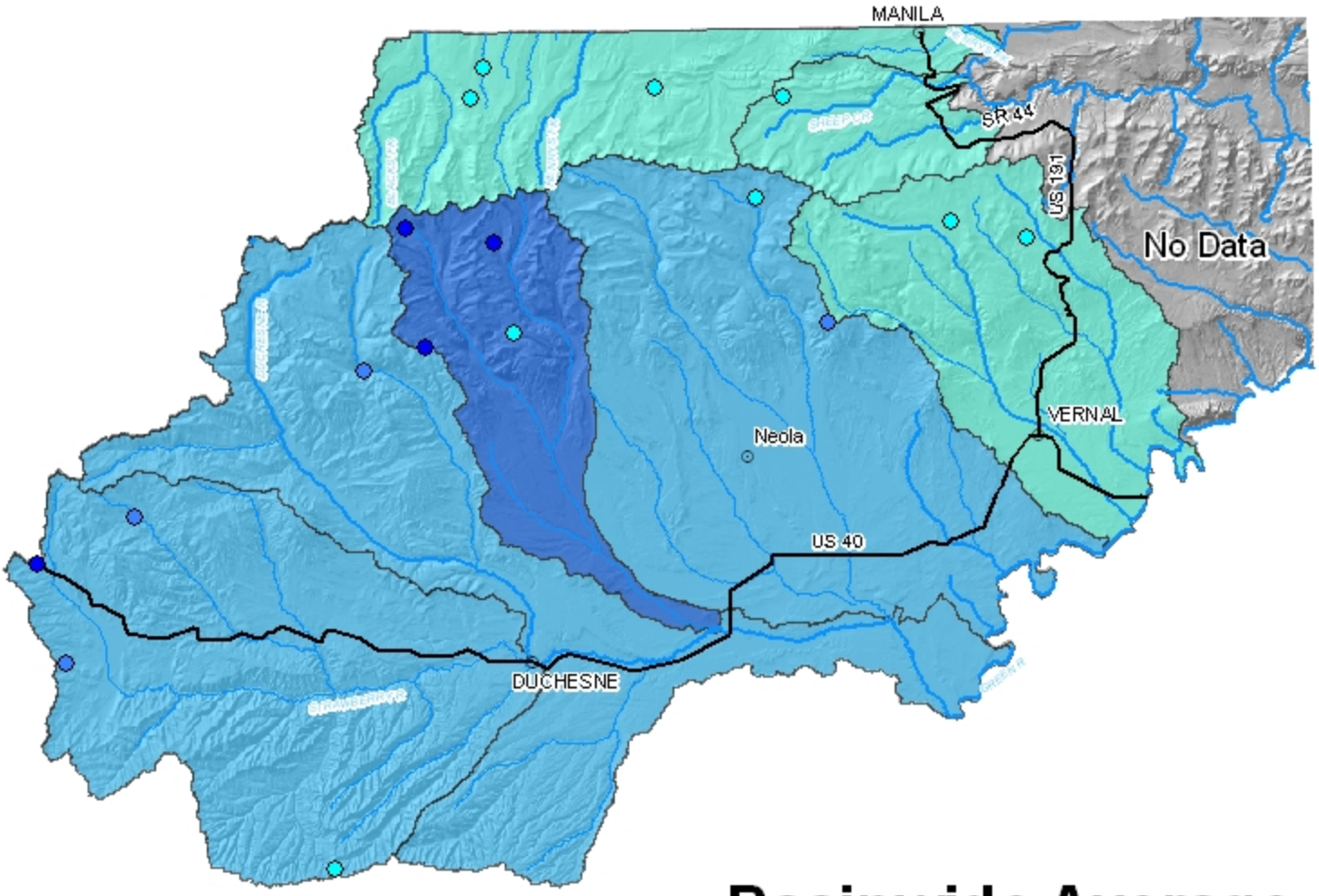
Watershed % of Average

- 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%

N



Basinwide Average 138%

Provisional Data Subject to Revision

0 5 10 20 30 40 50 Miles

UINTAH BASIN & DAGGET SCD'S as of April 1, 2011

UINTAH BASIN & DAGGET SCD'S
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)
Blacks Fk nr Robertson	APR-JUL	86	103	115	121	128	148	95
EF of Smiths Fork nr Robertson (2)	APR-JUL	25	31	36	124	41	49	29
Flaming Gorge Reservoir Inflow (2)	APR-JUL	975	1170	1350	113	1540	1850	1190
Big Brush Ck ab Red Fleet Reservoir	APR-JUL	15.3	19.7	23	110	27	32	21
Ashley Ck nr Vernal	APR-JUL	35	46	55	106	64	80	52
WF Duchesne R at VAT Diversion	APR-JUL	25	29	32	171	35	40	18.7
Duchesne R nr Tabiona (2)	APR-JUL	118	139	155	148	172	197	105
Upper Stillwater Reservoir Inflow (2	APR-JUL	107	117	125	152	133	145	82
Rock Ck nr Mountain Home (2)	APR-JUL	113	126	135	152	144	159	89
Duchesne R ab Knight Diversion (2)	APR-JUL	230	265	290	154	315	360	188
Strawberry R nr Soldier Springs (2)	APR-JUL	67	86	100	170	115	140	59
Currant Ck Reservoir Inflow (2)	APR-JUL	26	34	40	160	47	57	25
Strawberry R nr Duchesne (2)	APR-JUL	136	173	200	165	230	275	121
Lake Fork R ab Moon Lake Reservoir	APR-JUL	83	93	100	147	107	118	68
Yellowstone R nr Altonah	APR-JUL	76	88	96	155	105	118	62
Duchesne R at Myton (2)	APR-JUL	330	430	500	192	580	705	260
Uinta R bl Powerplant Diversion nr N	APR-JUL	76	96	112	142	129	155	79
Whiterocks R nr Whiterocks	APR-JUL	48	61	70	125	80	96	56
Duchesne R Nr Randlett, Ut	APR-JUL	385	520	625	193	740	900	324

UINTAH BASIN & DAGGET SCD'S
Reservoir Storage (1000 AF) - End of March

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
FLAMING GORGE	3749.0	3158.0	3195.0	2920.0
MOON LAKE	49.5	17.3	14.6	30.8
RED FLEET	25.7	19.6	21.5	18.8
STEINAKER	33.4	23.0	25.8	24.2
STARVATION	165.3	132.2	162.7	138.6
STRAWBERRY-ENLARGED	1105.9	974.1	974.5	648.8

UINTAH BASIN & DAGGET SCD'S
Watershed Snowpack Analysis - April 1, 2011

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
UPPER GREEN RIVER in UTAH	6	129	114
ASHLEY CREEK	2	131	116
BLACK'S FORK RIVER	2	148	111
SHEEP CREEK	1	112	113
DUCHESNE RIVER	11	204	148
LAKE FORK-YELLOWSTONE CRE	4	216	157
STRAWBERRY RIVER	4	222	146
UINTAH-WHITEROCKS RIVERS	2	156	130
UINTAH BASIN & DAGGET SCD	17	176	138

* 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.

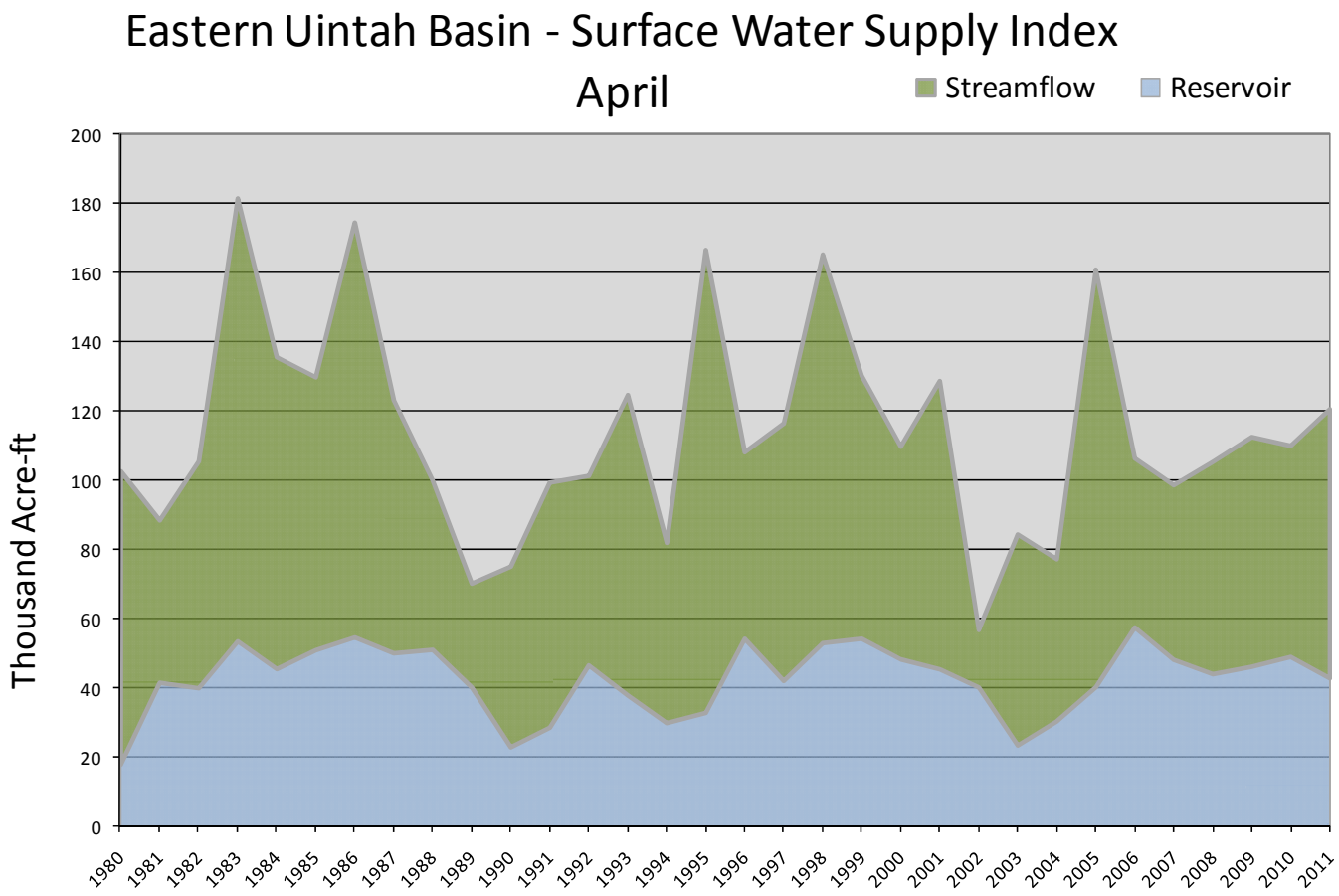
(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

April 1, 2011

Surface Water Supply Index

Basin or Region	March EOM* Red Fleet & Steinaker	April-July Forecast Big Brush & Ashley Creek	Reservoir + Streamflow	SWSI#	Percentile	Years with similar SWSI
	*KAF^*	*KAF*	*KAF*		*%*	
Eastern Uintah	**42.8**	**78.0**	**121**	**1.14**	**64**	**09, 97, 87, 93**

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

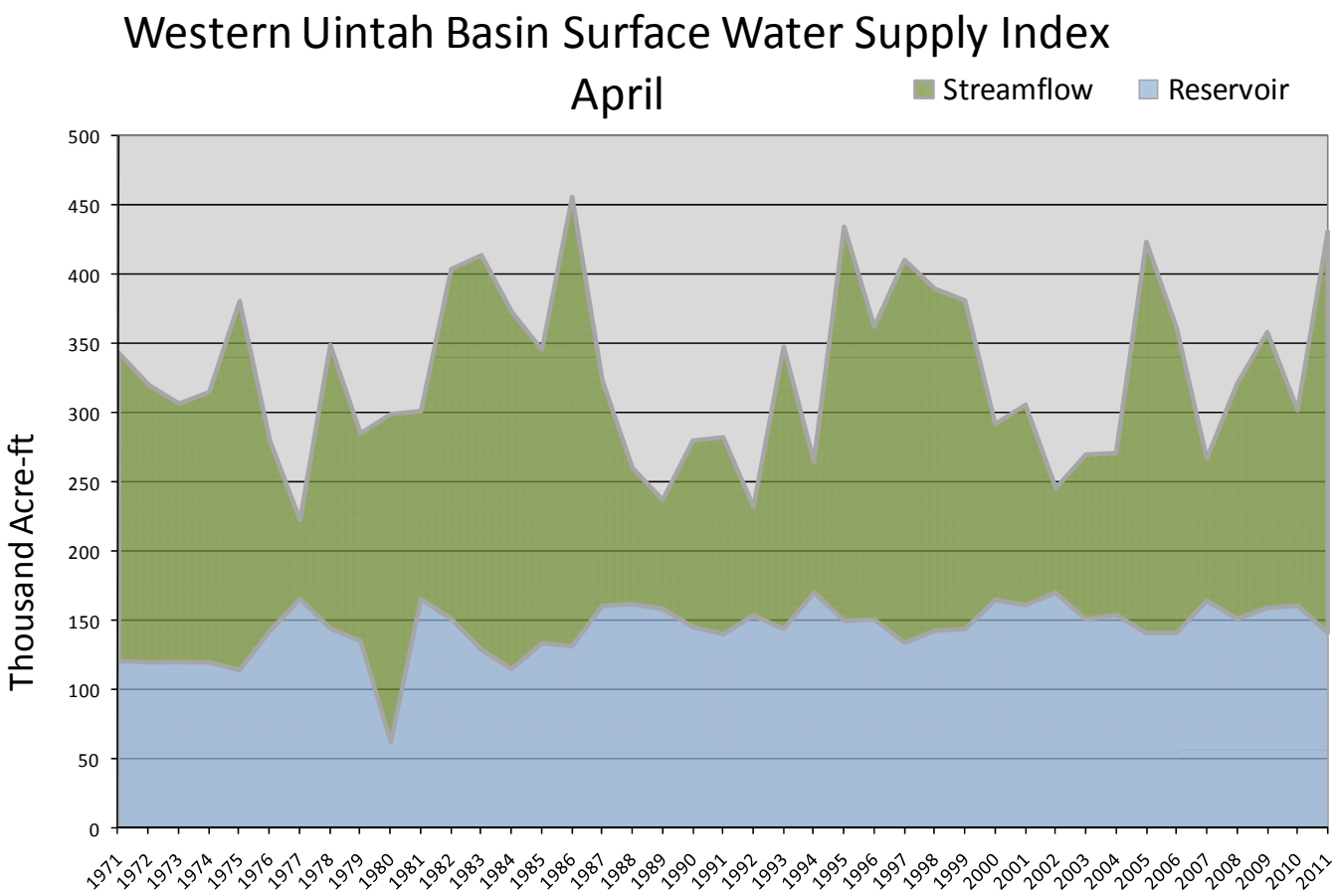


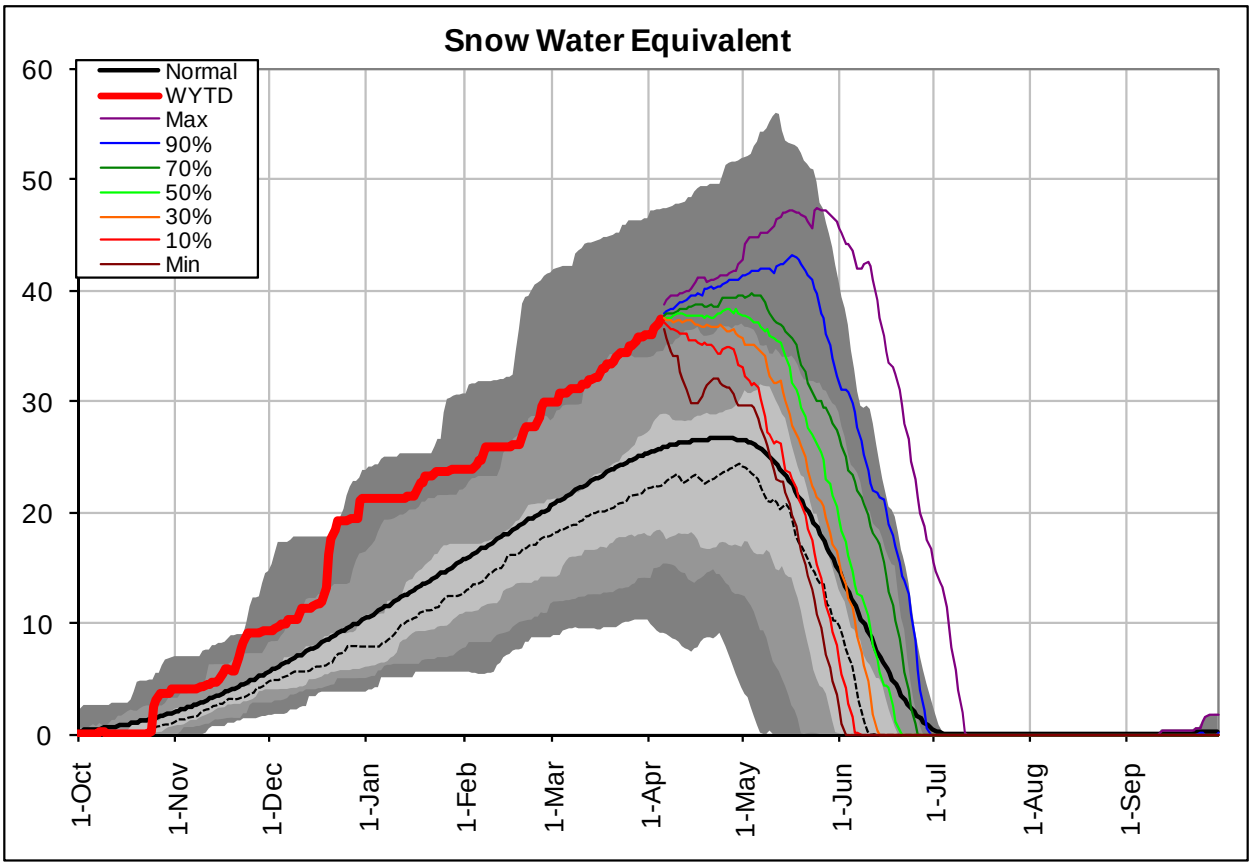
April 1, 2011

Surface Water Supply Index

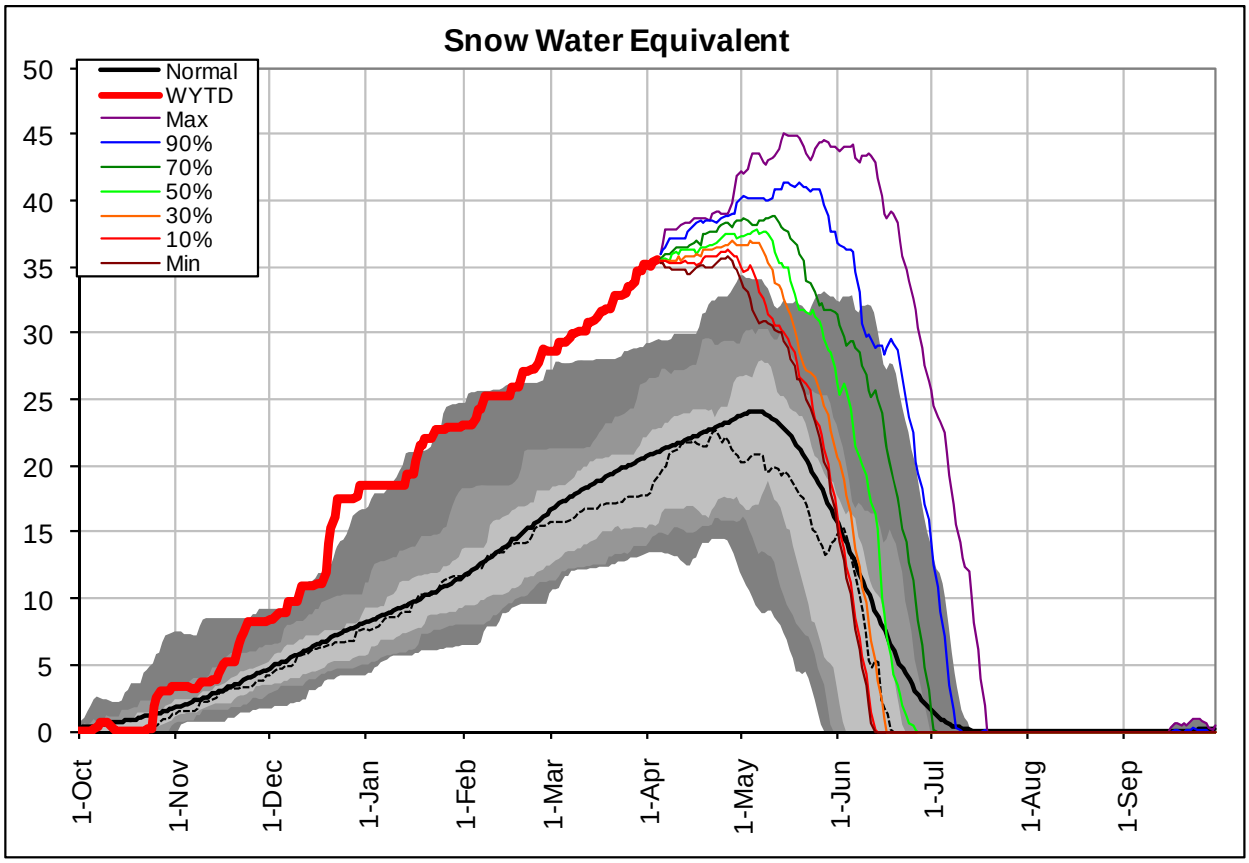
Basin or Region	March EOM* Starvation & Upper Stillwater	April-July Forecast Rock Creek & Duchesne River	Reservoir + Streamflow	SWSI#	Percentile	Years with similar SWSI
	*KAF^*	*KAF*	*KAF*		*%*	
Western Uintah	**142**	**290**	**432**	**3.57**	**93**	**83, 05, 95, 86**

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

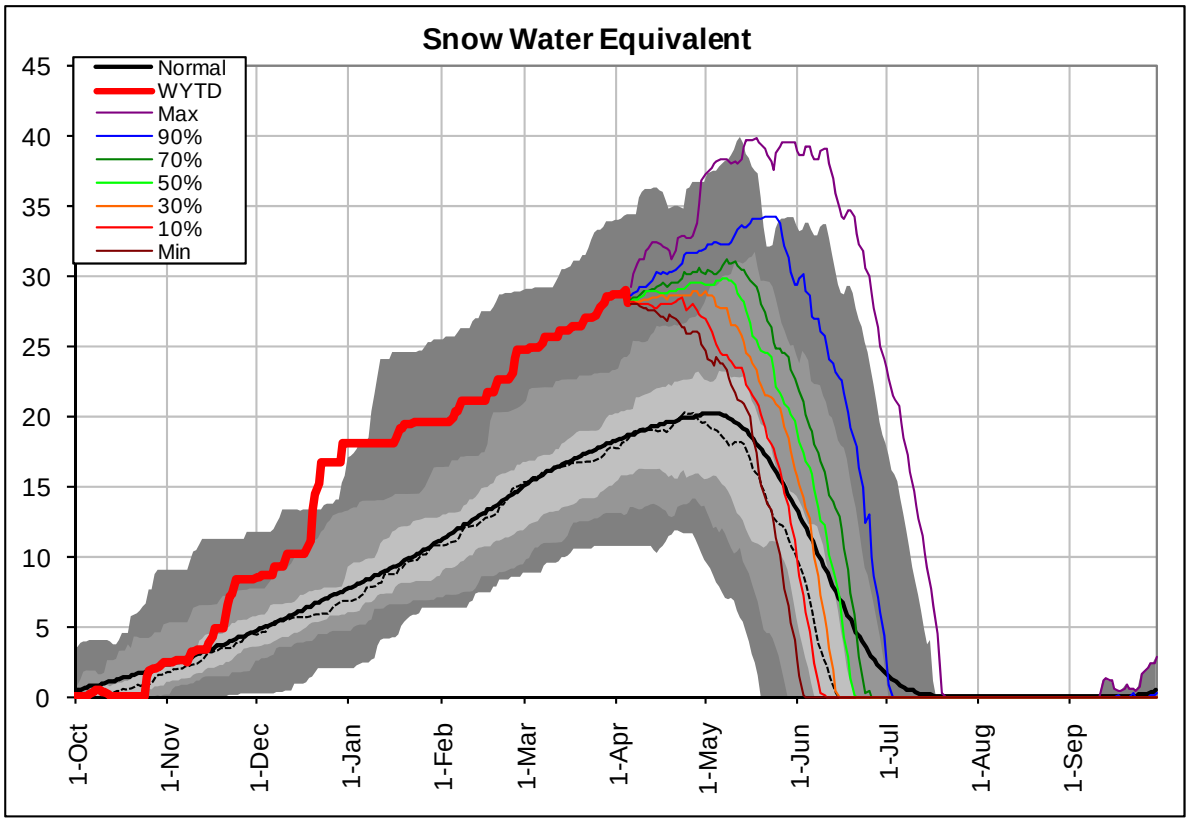




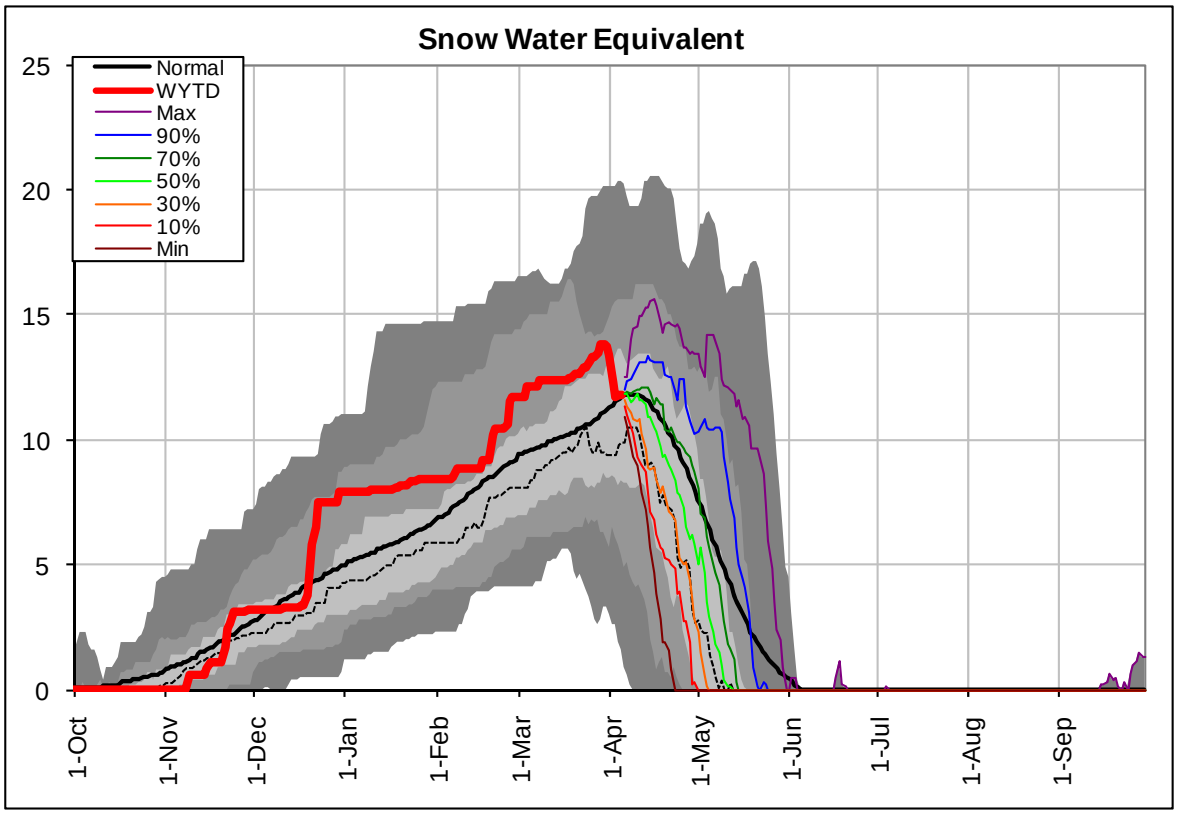
Trial Lake SNOTEL



Lakefork Basin SNOTEL



Brown Duck SNOTEL



Kings Cabin SNOTEL