NRCS
Natural Resources Conservation Service

Utah Water Supply Outlook Report

January, 2010

New SNOTEL site at Tony Grove Ranger Station. Photo by Randy Julander, NRCS, USDA. Sites were also added at: Klondike Narrows, Garden City Summit, Burts Miller Ranch, Spirit Lake and Lakefork #3.

Water Supply Outlook Reports
and Federal - State - Private Cooperative Snow Surveys

For more water supply and resource management information, contact:

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How forecasts are made

Most of the annual streamflow in the western United States originates as snowfall that has accumulated in the mountains during the winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Measurements of snow water equivalent at selected manual snowcourses and automated SNOTEL sites, along with precipitation, antecedent streamflow, and indices of the El Niño / Southern Oscillation are used in computerized statistical and simulation models to prepare runoff forecasts. These forecasts are coordinated between hydrologists in the Natural Resources Conservation Service and the National Weather Service. Unless otherwise specified, all forecasts are for flows that would occur naturally without any upstream influences.

Forecasts of any kind, of course, are not perfect. Streamflow forecast uncertainty arises from three primary sources: (1) uncertain knowledge of future weather conditions, (2) uncertainty in the forecasting procedure, and (3) errors in the data. The forecast, therefore, must be interpreted not as a single value but rather as a range of values with specific probabilities of occurrence. The middle of the range is expressed by the 50% exceedance probability forecast, for which there is a 50% chance that the actual flow will be above, and a 50% chance that the actual flow will be below, this value. To describe the expected range around this 50% value, four other forecasts are provided, two smaller values (90% and 70% exceedance probability) and two larger values (30%, and 10% exceedance probability). For example, there is a 90% chance that the actual flow will be more than the 90% exceedance probability forecast. The others can be interpreted similarly.

The wider the spread among these values, the more uncertain the forecast. As the season progresses, forecasts become more accurate, primarily because a greater portion of the future weather conditions become known; this is reflected by a narrowing of the range around the 50% exceedance probability forecast. Users should take this uncertainty into consideration when making operational decisions by selecting forecasts corresponding to the level of risk they are willing to assume about the amount of water to be expected. If users anticipate receiving a lesser supply of water, or if they wish to increase their chances of having an adequate supply of water for their operations, they may want to base their decisions on the 90% or 70% exceedance probability forecasts, or something in between. On the other hand, if users are concerned about receiving too much water (for example, threat of flooding), they may want to base their decisions on the 30% or 10% exceedance probability forecasts, or something in between. Regardless of the forecast value users choose for operations, they should be prepared to deal with either more or less water. (Users should remember that even if the 90% exceedance probability forecast is used, there is still a 10% chance of receiving less than this amount.) By using the exceedance probability information, users can easily determine the chances of receiving more or less water.

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STATE OF UTAH GENERAL OUTLOOK
January 1, 2010

SUMMARY

The water year 2010 has not been kind to northern Utah and the probability that this region will recover by peak snowpack in April is slim – 13% to 28%. Snowpacks in northern Utah range from 54% on the Bear to 72% over the Uintah Basin. The good news is that when you start the snow accumulation year this far down, there is a very high probability that things will improve *somewhat* over the next few months – 80% to 90% probability that by April 1 the Bear will be better than it is today. Not great, or even near average, but at least better. Central and southern Utah have snowpacks that range from 87% on the Price to 134% of average over southwest Utah. In general, south of Richfield, snowpacks are above average, north of Richfield, snowpacks decline rapidly the farther north one goes. December precipitation was much below to near normal (62%-99%) in northern Utah and much above normal (144%-200%) in the south which brings the year to date precipitation to below normal in the north (70%) and near average in the south (85%-100%). Current soil moisture saturation levels in runoff producing areas are: Bear – 47%, Weber – 45%, Provo – 29%, Uintah Basin – 18%, SE Utah – 32%, Sevier – 26% and SW Utah – 20%, down 2 to 15% from last January of last year and as dry or dryer than each of the past 5 years. Dryer soils typically mean less runoff from snowmelt and this is a big concern this year. Low snowpacks and dry soils are not a good runoff combination. Reservoir storage is currently at 66% of capacity statewide compared to 57% last year. General water supply conditions are below average in northern Utah and near average in southern Utah. Streamflow forecasts range from 42% for West Canyon Creek nr Cedar Fort to 109% of average for Mammoth Creek nr Hatch. Surface Water Supply Indices range from 27% on the Upper Sevier River to 63% for Moab area.

SNOWPACK

January first snowpacks as measured by the NRCS SNOTEL system are as follows: Bear - 54%, Weber - 65%, Provo - 64%, Uintahs - 72%, southeast Utah - 87%, Sevier - 113%, southwest Utah - 134% and the statewide figure is 75% of average. With January, February and March remaining in the snow accumulation season, the range of potential outcomes is still reasonably large and any outcome is possible depending on future climatic conditions. If drought prevails, snowpacks could range between 16% (SW Utah) and 46% (Weber) of average. Given maximum accumulations, April 1 snowpacks could range between 127% (Bear) and 242% (SW Utah) of average. With normal accumulations, April 1 snowpacks will be between 82% (Bear) and 113% (SW Utah) of average.

PRECIPITATION

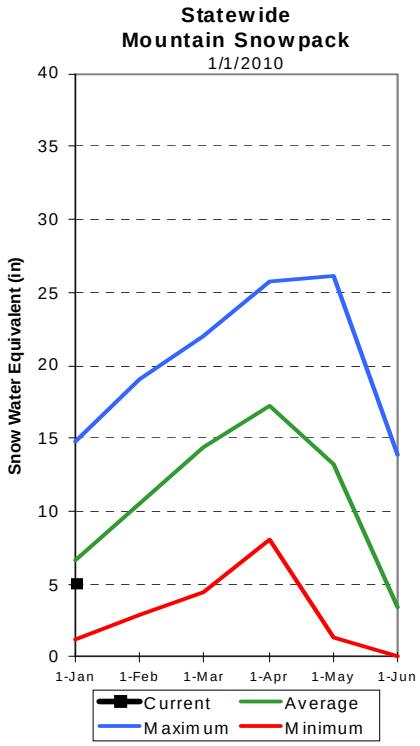
Mountain precipitation during December was: Bear – 62%, Weber – 86%, Provo – 99%, Uintahs – 92%, SE Utah – 144%, Sevier – 170%, SW Utah – 200% and the statewide figure is 105% of average. This brings the seasonal accumulation (Oct-Jan) to 77% of average statewide.

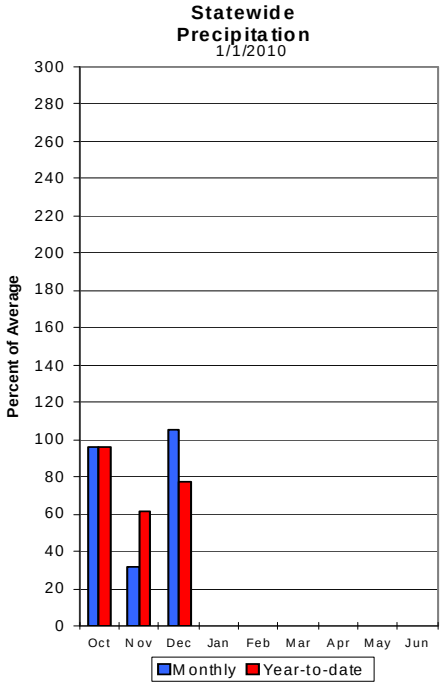
RESERVOIRS

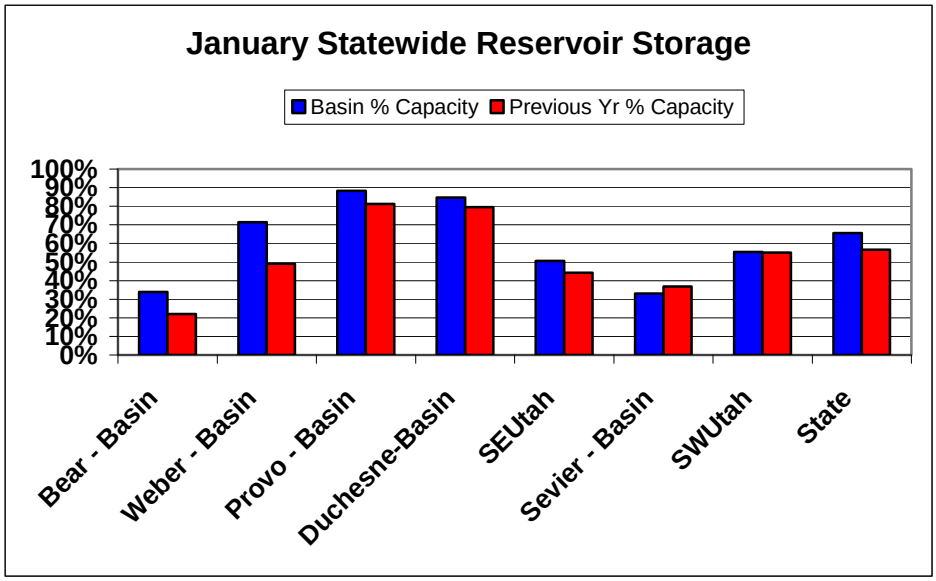
Storage in 41 of Utah's key irrigation reservoirs is at 66% of capacity up 9% compared to January of last year year. Reservoir storage by Basin: Bear – 34%, Weber – 71%, Provo – 88%, Uintah Basin – 85%, SE Utah – 51%, Sevier – 33%, SW Utah – 55% of capacity.

STREAMFLOW

Snowmelt streamflows are expected to have a wide range from much below average to average across the state of Utah this year. Forecast streamflows range from 42% on West Canyon Creek nr Cedar Fort to 109% on Mammoth Creek nr Hatch. Most flows are forecast to be in the 60% to 90% range.

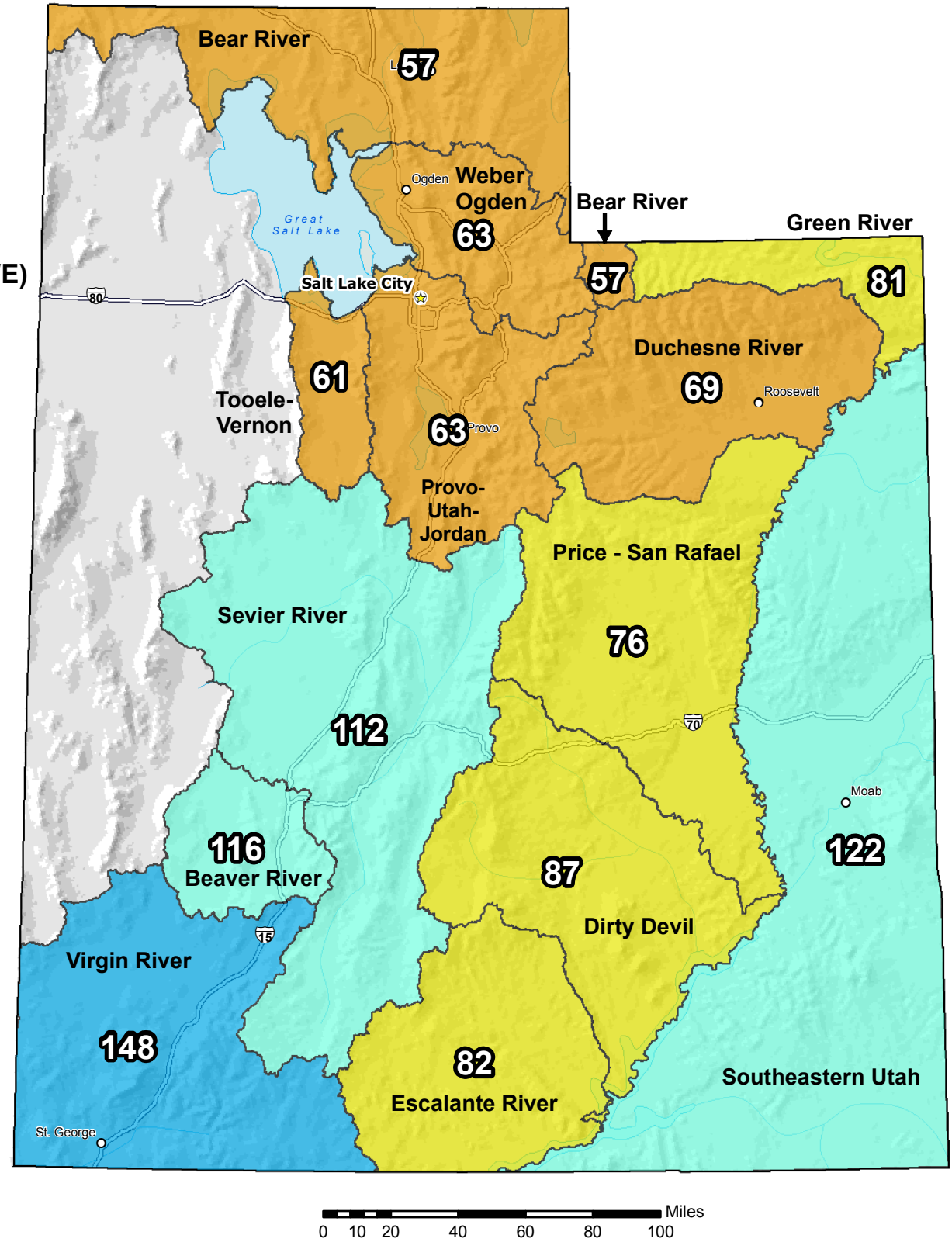






Utah
SNOTEL Current Snow Water Equivalent (SWE)
% of Normal

Jan 01, 2010



Snow Water Equivalent (SWE) Basin-wide Percent of 1971-2000 Normal

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

* *Data unavailable at time of posting or measurement is not representative at this time of year*

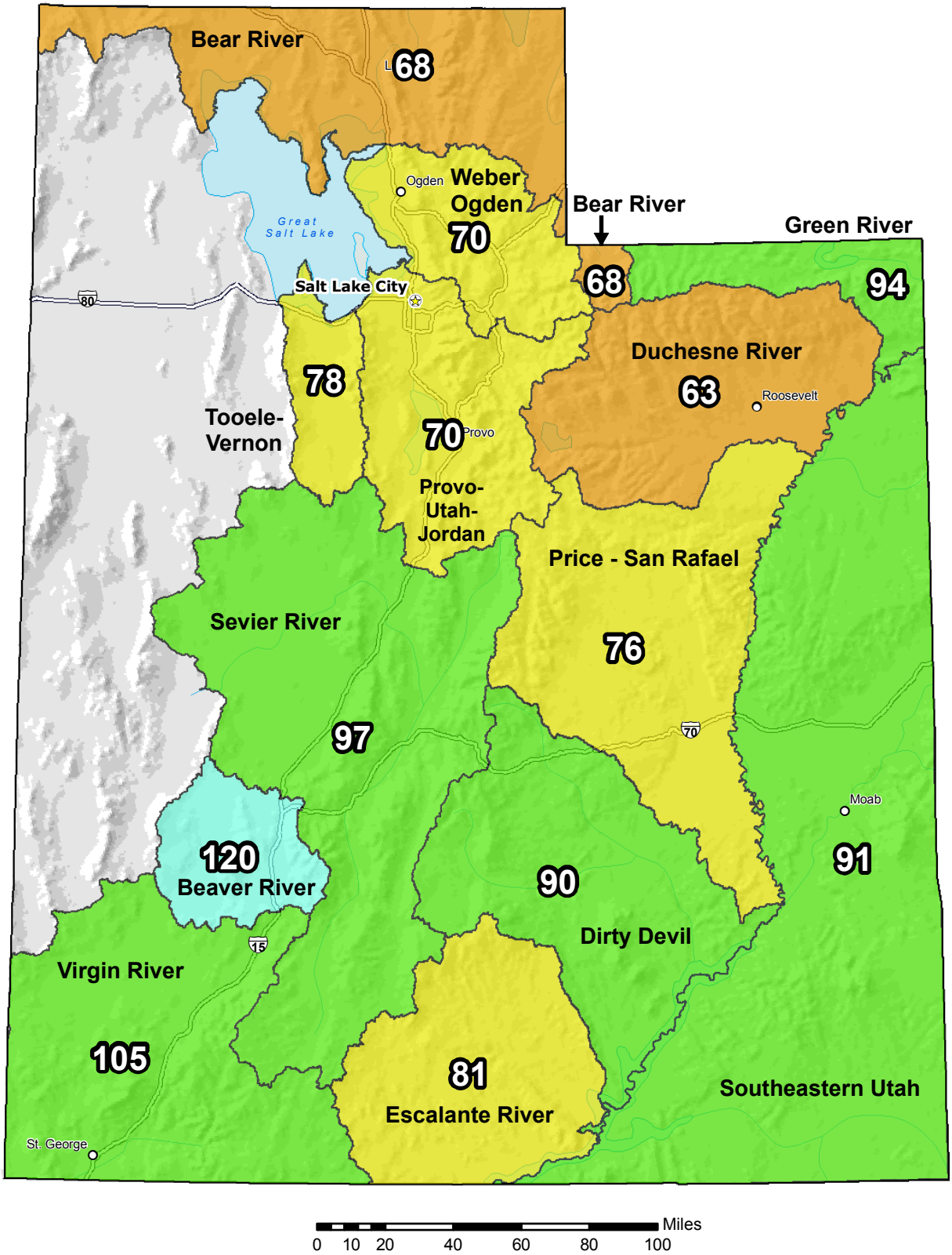
Provisional Data Subject to Revision

The snow water equivalent percent of normal represents the current snow water equivalent found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).

Prepared by the USDA/NRCS National Water and Climate Center
Portland, Oregon http://www.wcc.nrcs.usda.gov/gis/
Based on data from http://www.wcc.nrcs.usda.gov/reports/
Science contact: Tom.Pagano@por.usda.gov 503 414 3010

Utah
SNOTEL Water Year (Oct 1) to Date Precipitation
% of Normal

Jan 01, 2010



Water Year (Oct 1) to Date Precipitation Basin-wide Percent of 1971-2000 Normal

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The water year to date precipitation percent of normal represents the accumulated precipitation found at selected SNOTEL sites in or near the basin compared to the average value for those sites on this day. Data based on the first reading of the day (typically 00:00).

Prepared by the USDA/NRCS National Water and Climate Center
Portland, Oregon http://www.wcc.nrcs.usda.gov/gis/
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Surface Water Supply Index

January 1, 2010 Basin or Region	SWSI	Percentile	Years with Similar SWSI
Bear River	-3.05	29%	28,29,44,45
Ogden River	0.88	47%	78,93,94,08
Weber River	-2.95	52%	78,79,93,05
Provo	-0.26	47%	07,08,05,80
West Uintah Basin	-0.10	49%	08,09,87,93
East Uintah Basin	0.26	53%	82,96,00,08
Price River	-0.32	46%	08,88,87,81
Joe's Valley	0.18	52%	01,00,93,09
Ferron Creek	-0.75	41%	87,03,78,91
Moab	1.04	63%	96,07,94,97
Upper Sevier River	-1.94	27%	02,04,03,54
Lower Sevier River	-0.32	46%	89,01,96,79
Beaver River	-0.17	48%	62,67,71,96
Virgin River	0.50	56%	94,00,99,92

SWSI Scale: -4 to 4	Percentile: 0 - 100%

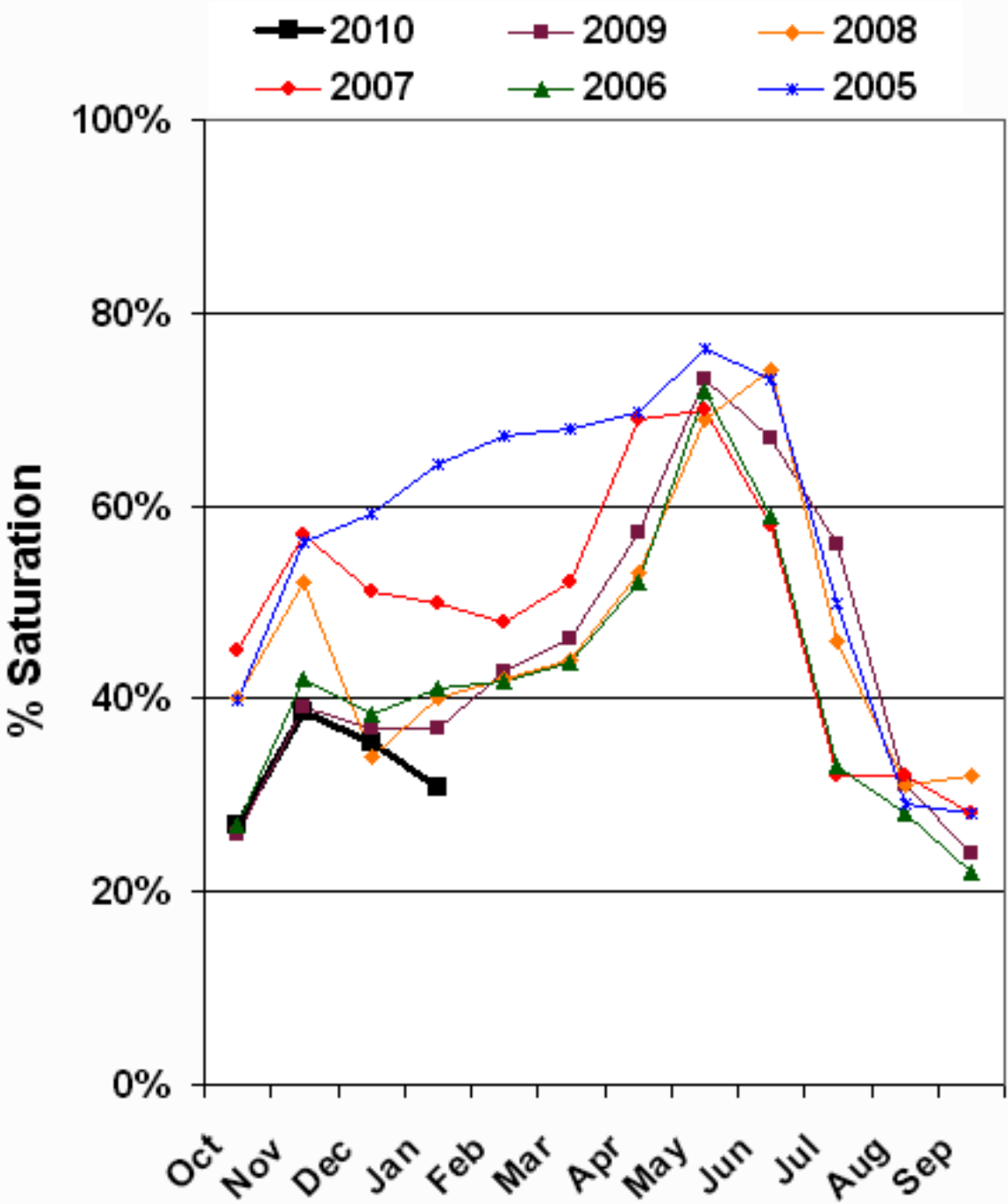
What is a Surface Water Supply Index?

The Surface Water Supply Index (SWSI) is a predictive indicator of total surface water availability within a watershed for the spring and summer water use seasons. The index is calculated by combining pre-runoff reservoir storage (carryover) with forecasts of spring and summer streamflow which are based on current snowpack and other hydrologic variables. SWSI values are scaled from +4.1 (abundant supply) to -4.1 (extremely dry) with a value of zero (0) indicating median water supply as compared to historical analysis. SWSI's are calculated in this fashion to be consistent with other hydroclimatic indicators such as the Palmer Drought Index and the Precipitation index.

Utah Snow Surveys has also chosen to display the SWSI as a PERCENT CHANCE OF NON-EXCEEDANCE. While this is a cumbersome name, it has the simplest application. It can be best thought of as a scale of 1 to 99 with 1 being the drought of record (driest possible conditions) and 99 being the flood of record (wettest possible conditions) and a value of 50 representing average conditions. This rating scale is a percentile rating as well, for example a SWSI of 75% means that this years water supply is greater than 75% of all historical events and that only 25% of the time has it been exceeded. Conversely a SWSI of 10% means that 90% of historical events have been greater than this one and that only 10% have had less total water supply. This scale is far more intuitive for most people and is totally comparable between basins: a SWSI of 50% means the same relative ranking on watershed A as it does on watershed B, which may not be strictly true of the +4 to -4 scale.

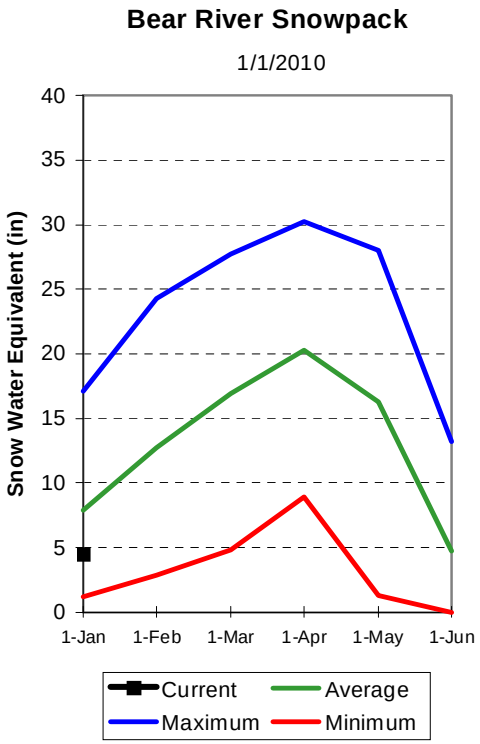
For more information on the SWSI go to: www.ut.nrcs.usda.gov/snow/ on the water supply page. The entire period of historical record for reservoir storage and streamflow is available.

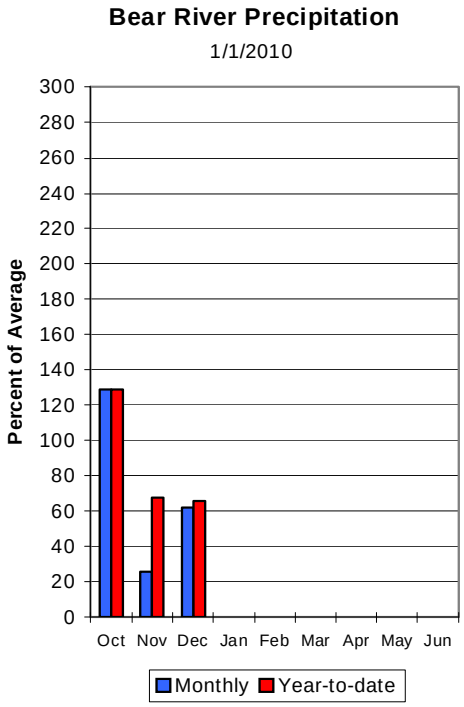
Statewide Soil Moisture

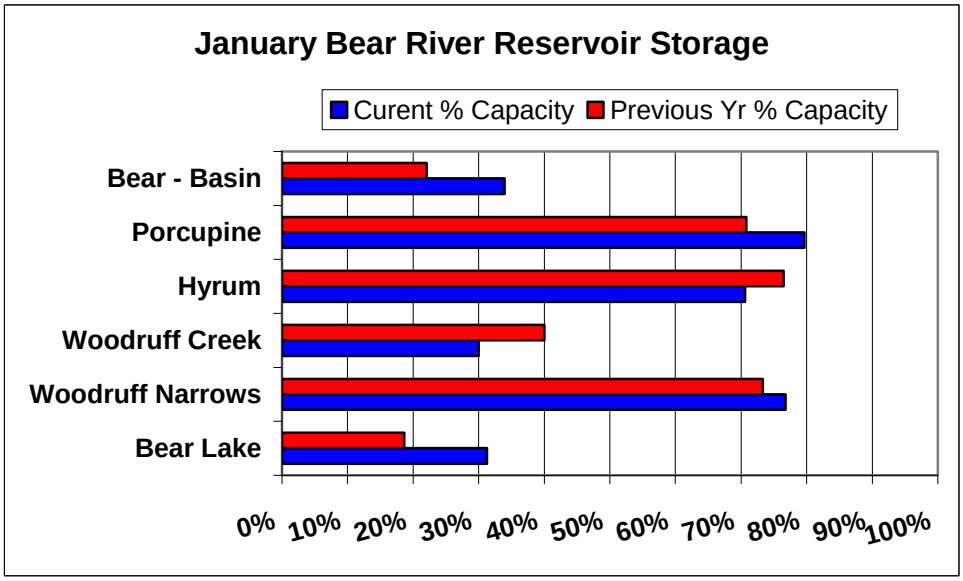


Bear River Basin
January 1, 2010

Snowpacks on the Bear River Basin are average at 54% of normal, about 61% of last year. Individual sites range from 37% of normal at Sedgwick Peak Snotel to 87% at Lily Lake Snotel. December precipitation was much below average at 62%, which brings the seasonal accumulation (Oct-Dec) to 66% of average. Soil moisture levels in runoff producing areas are at 47% of saturation in the upper 2 feet of soil compared to 53% last year. Forecast streamflows (April-July) range from much below to below average (57%-82%) volumes for this spring and summer. Bear Lake reservoir storage is low at 31% of capacity, which is up 12% from this time last year. The Surface Water Supply Index is at 29% for the Bear River Basin, in other words, 71% of years have had more total water available. This has been the worst snow accumulation in this basin for a decade. Water supply conditions are much below normal due to low reservoir storage in Bear Lake.







BEAR RIVER BASIN
Streamflow Forecasts - January 1, 2010

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)
Bear River nr UT-WY State Line	APR-JUL	54	77	93	82	109	132	113
Bear River ab Reservoir nr Woodruff	APR-JUL	38	75	100	74	125	162	136
Big Creek nr Randolph	APR-JUL	0.52	2.00	3.00	61	4.00	5.50	4.90
Smiths Fork nr Border	APR-JUL	40	62	77	75	92	114	103
Bear River at Stewart Dam	APR-JUL	5.0	65	140	60	215	325	234
Little Bear at Paradise, UT	APR-JUL	12.3	22	30	65	39	56	46
Logan R nr Logan, UT	APR-JUL	39	61	78	62	97	130	126
Blacksmith Fk Abv Up&L Dam Nr Hyrum	APR-JUL	13.3	22	30	63	39	53	48
Dunn Ck nr Park Valley	APR-JUL	0.20	1.30	2.00	65	2.70	3.80	3.1

BEAR RIVER BASIN
Reservoir Storage (1000 AF) - End of December

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
BEAR LAKE	1302.0	406.7	242.9	---
HYRUM	15.3	10.8	11.7	10.2
PORCUPINE	11.3	9.0	8.0	3.9
WOODRUFF NARROWS	57.3	44.0	42.0	23.6
WOODRUFF CREEK	4.0	1.2	1.6	---

BEAR RIVER BASIN
Watershed Snowpack Analysis - January 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
BEAR RIVER, UPPER	8	70	62
BEAR RIVER, LOWER	9	56	48
LOGAN RIVER	4	60	49
RAFT RIVER	1	97	91
BEAR RIVER BASIN	17	61	54

* 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.

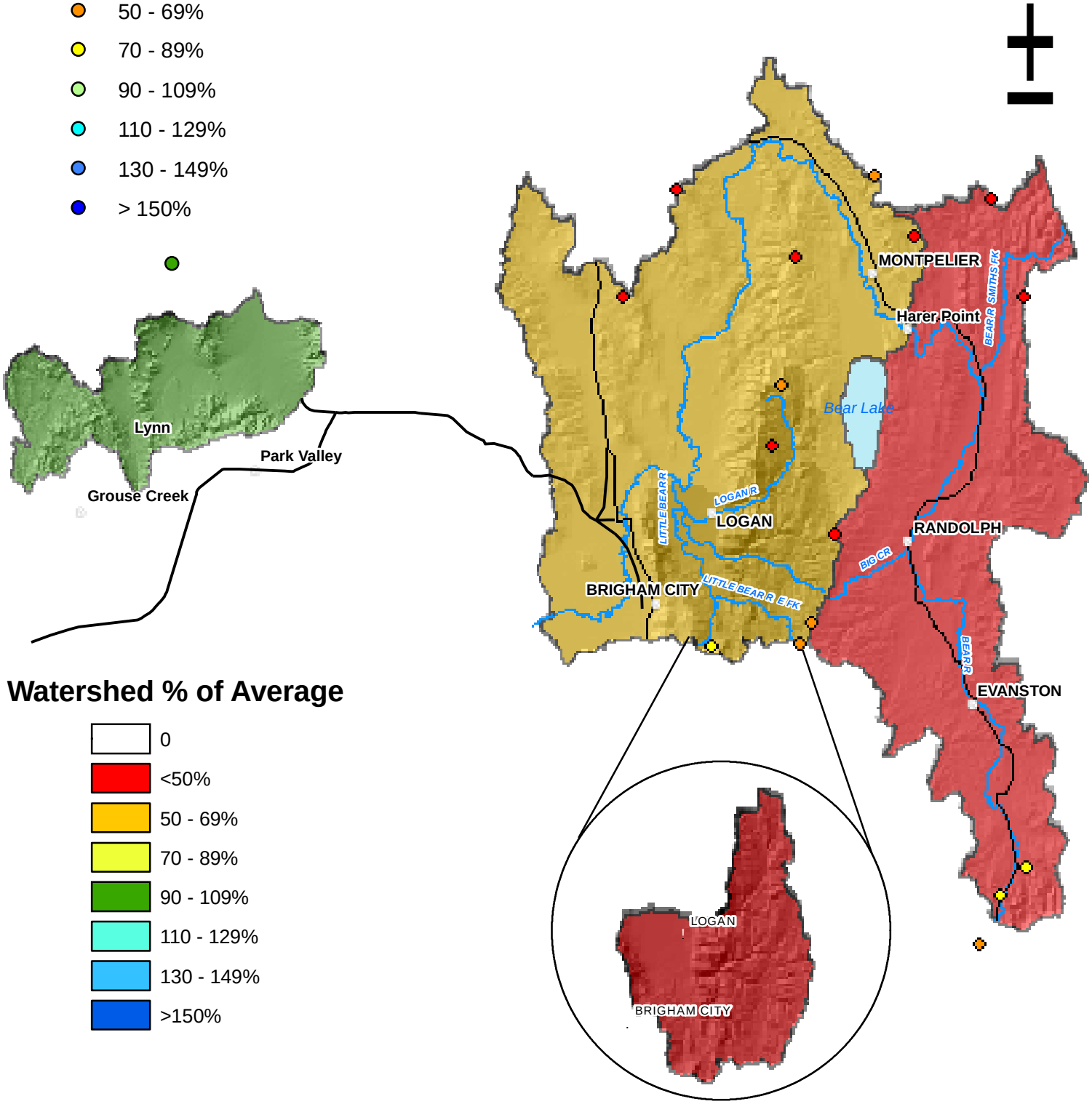
(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

Bear River & Raft River Basins

Snotel % of Average

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

Basinwide Average 54 %



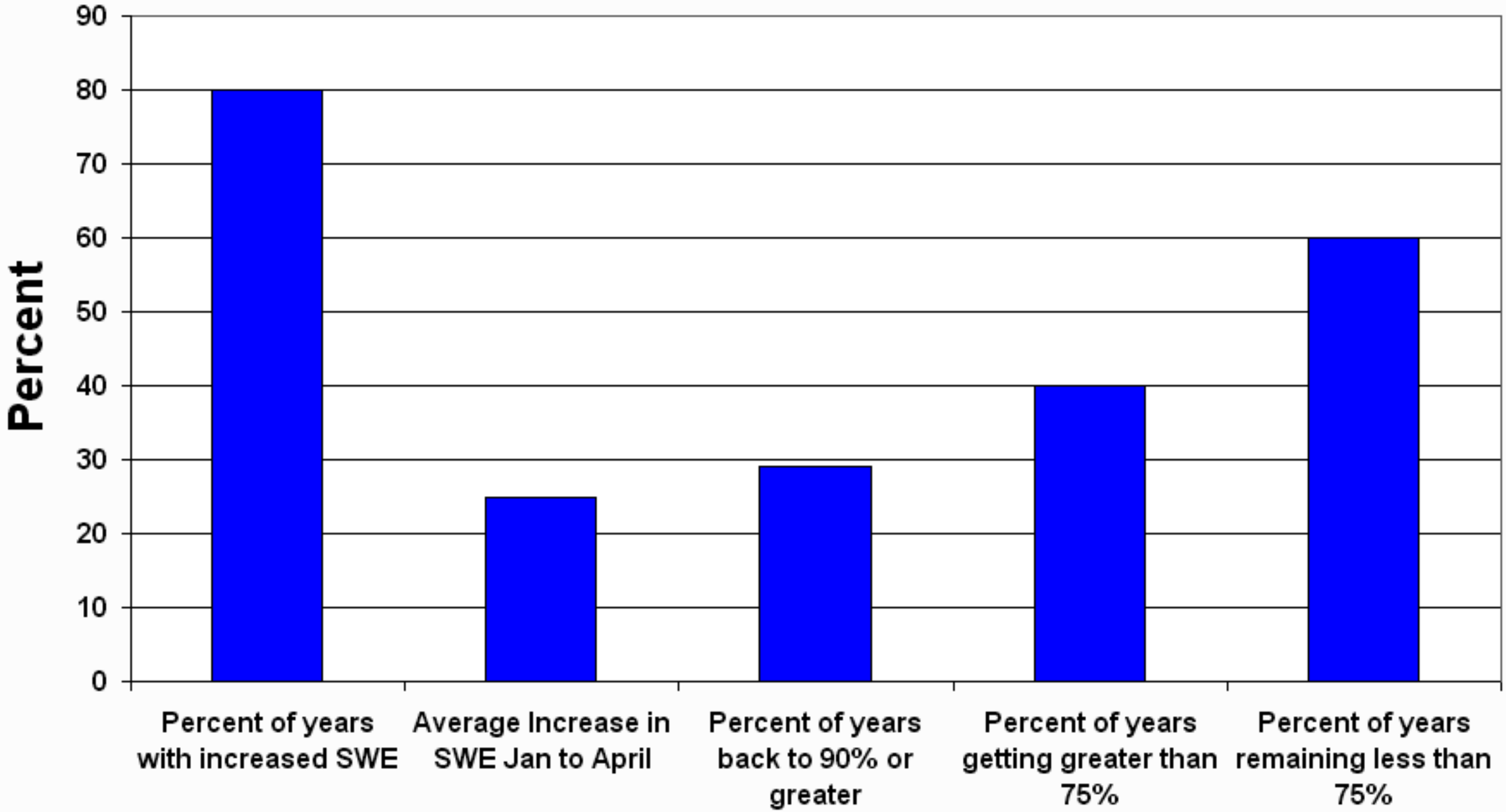
Watershed % of Average

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

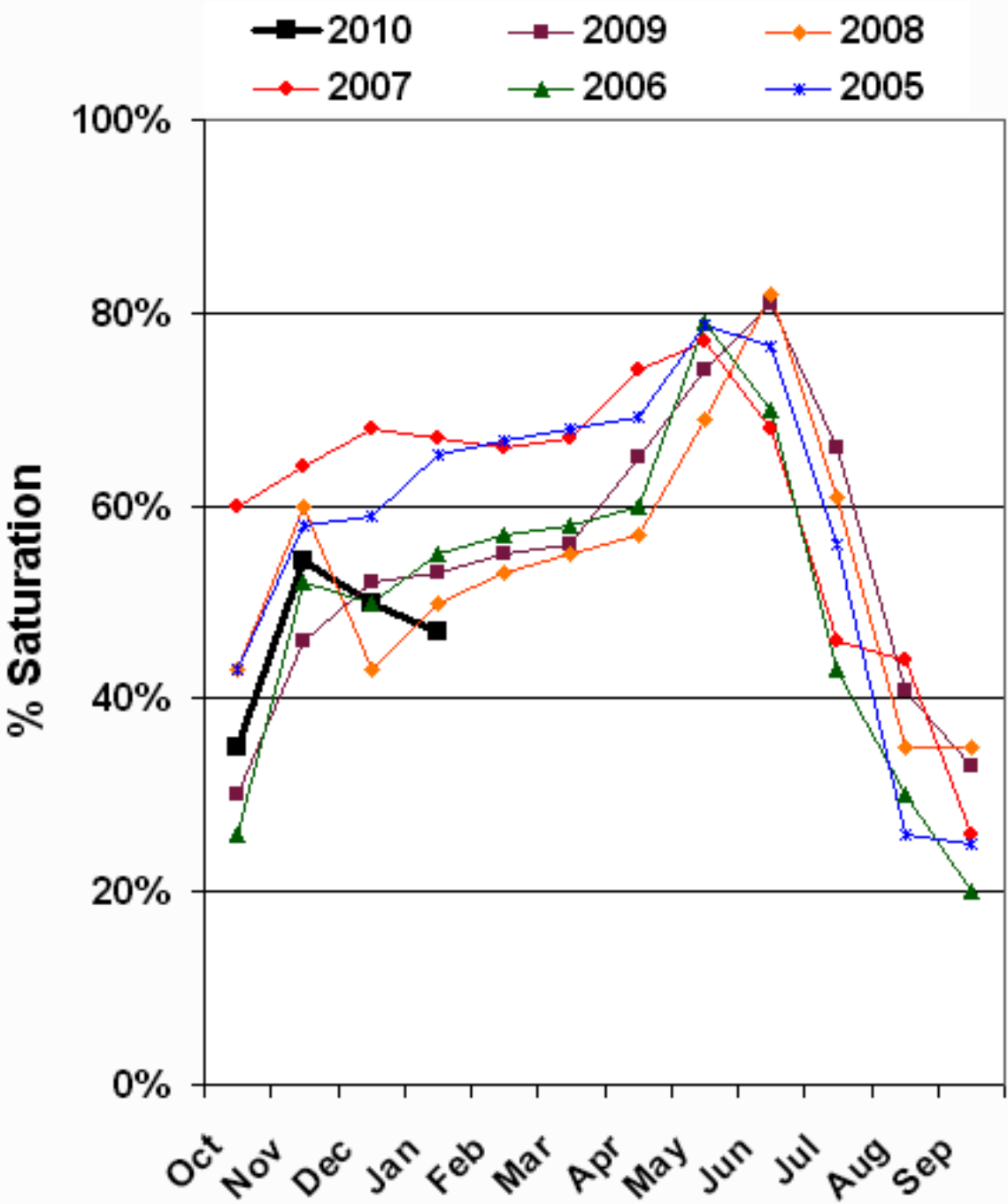
Provisional Data Subject to Revision

Miles
0 5 10 20 30 40 50

Bear River Low Snow Analysis - April 1 outcome if Jan 1 is less than 75% of average



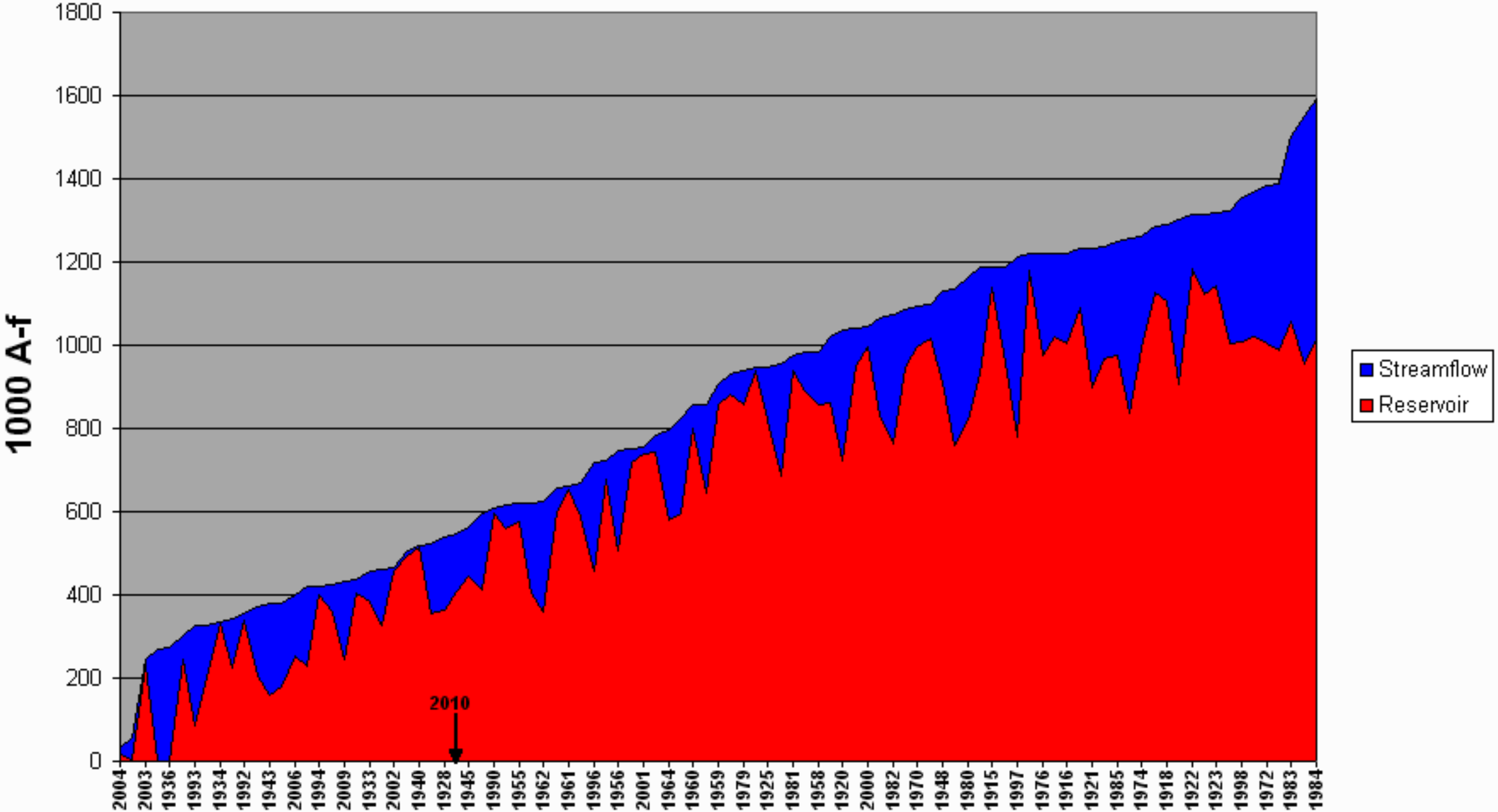
Bear River Soil Moisture



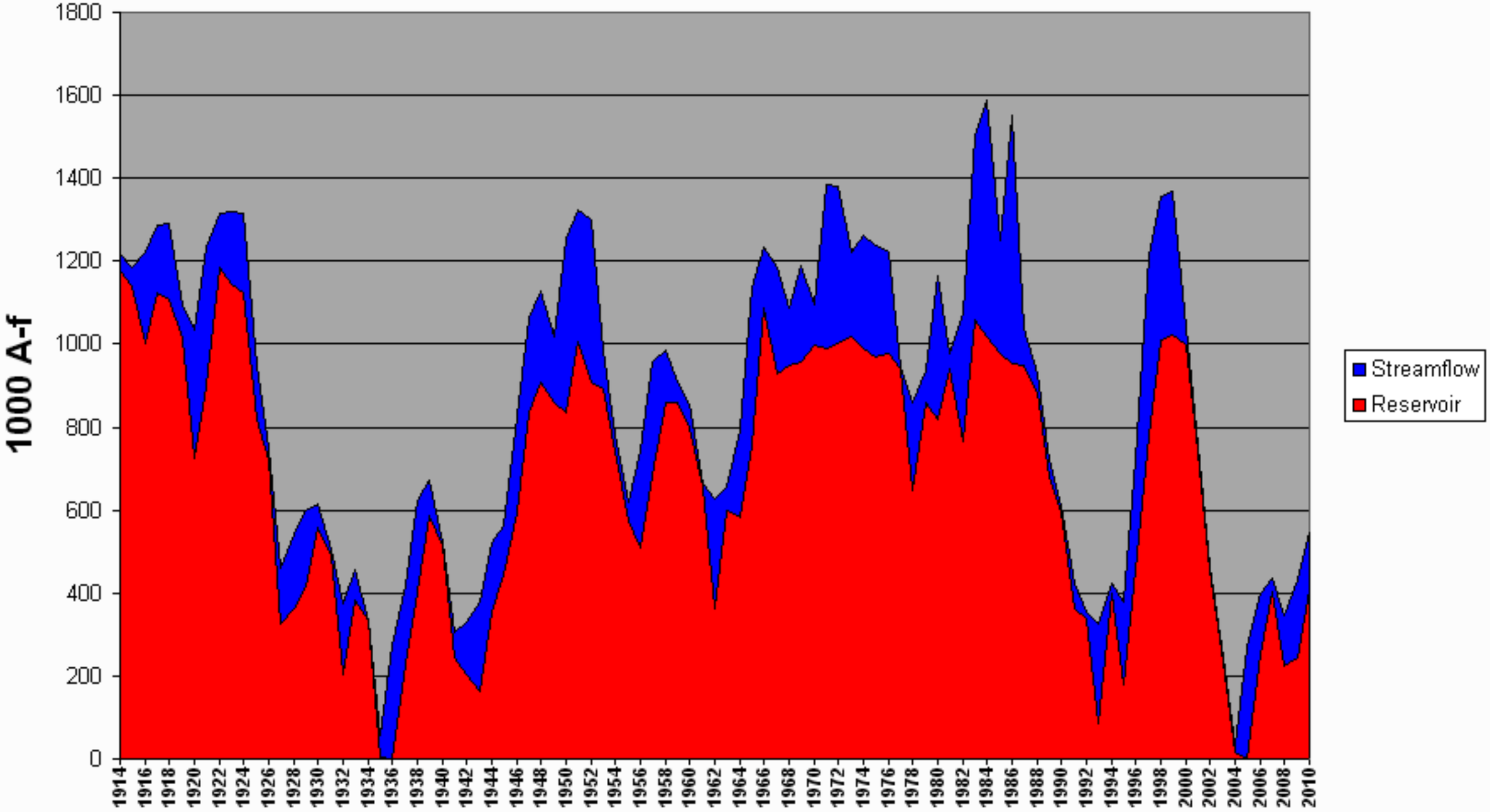
Bear Lake SWSI						
January 1						
#	Year	EOM December Reservoir KAF	Apr-Jul Streamflow KAF	Reservoir + Streamflow KAF	Probability	SWSI
1	2004	16	15	31	1	-4.08
2	1935	4	52	56	2	-4.00
3	2003	233	10	243	3	-3.91
4	2005	0	270	270	4	-3.83
5	1936	0	272	272	5	-3.74
6	1941	246	57	303	6	-3.66
7	1993	87	240	327	7	-3.57
8	1942	202	126	328	8	-3.49
9	1934	332	3	335	9	-3.40
10	2008	226	119	345	10	-3.32
11	1992	338	16	354	11	-3.23
12	1932	203	170	373	12	-3.15
13	1943	161	219	380	13	-3.06
14	1995	180	200	380	14	-2.98
15	2006	252	147	399	15	-2.89
16	1937	227	194	420	16	-2.81
17	1994	400	21	422	17	-2.72
18	1991	360	64	425	18	-2.64
19	2009	243	190	432	19	-2.55
20	2007	404	31	435	20	-2.47
21	1933	384	72	456	21	-2.38
22	1927	327	133	460	22	-2.30
23	2002	456	8	464	23	-2.21
24	1931	494	11	506	24	-2.13
25	1940	515	5	519	26	-2.04
26	1944	355	167	522	27	-1.96
27	1928	364	177	541	28	-1.87
28	**2010**	**407**	**140**	**547**	**29**	**-1.79**
29	1945	443	119	561	30	-1.70
30	1929	414	183	597	31	-1.62
31	1990	596	13	609	32	-1.53
32	1930	559	58	617	33	-1.45
33	1955	576	45	621	34	-1.36
34	1938	403	219	622	35	-1.28
35	1962	360	265	626	36	-1.19
36	1963	598	57	655	37	-1.11
37	1961	655	7	662	38	-1.02
38	1939	588	82	670	39	-0.94
39	1996	457	262	719	40	-0.85
40	1989	678	43	721	41	-0.77
41	1956	508	237	745	42	-0.68
42	1926	720	31	751	43	-0.60
43	2001	740	16	756	44	-0.51

Bear Lake SWSI						
January 1						
#	Year	EOM December Reservoir KAF	Apr-Jul Streamflow KAF	Reservoir + Streamflow KAF	Probability	SWSI
44	1954	742	40	783	45	-0.43
45	1964	581	213	794	46	-0.34
46	1946	596	229	825	47	-0.26
47	1960	798	59	857	48	-0.17
48	1978	646	212	857	49	-0.09
49	1959	858	50	908	50	0.00
50	1988	882	47	929	51	0.09
51	1979	858	79	937	52	0.17
52	1977	941	5	945	53	0.26
53	1925	820	128	948	54	0.34
54	1957	686	270	956	55	0.43
55	1981	940	36	976	56	0.51
56	1953	891	93	984	57	0.60
57	1958	859	126	985	58	0.68
58	1949	860	159	1019	59	0.77
59	1920	724	313	1036	60	0.85
60	1987	950	89	1040	61	0.94
61	2000	996	47	1043	62	1.02
62	1947	834	230	1065	63	1.11
63	1982	764	309	1074	64	1.19
64	1968	947	139	1086	65	1.28
65	1970	998	97	1094	66	1.36
66	1919	1015	81	1096	67	1.45
67	1948	909	221	1129	68	1.53
68	1965	759	376	1136	69	1.62
69	1980	819	344	1163	70	1.70
70	1967	930	256	1186	71	1.79
71	1915	1140	47	1187	72	1.87
72	1969	957	232	1190	73	1.96
73	1997	778	434	1213	74	2.04
74	1914	1178	41	1220	76	2.13
75	1976	976	245	1221	77	2.21
76	1973	1019	203	1222	78	2.30
77	1916	1003	219	1222	79	2.38
78	1966	1088	144	1232	80	2.47
79	1921	899	335	1234	81	2.55
80	1975	969	268	1237	82	2.64
81	1985	976	272	1248	83	2.72
82	1950	837	419	1256	84	2.81
83	1974	991	270	1261	85	2.89
84	1917	1126	161	1287	86	2.98
85	1918	1108	181	1290	87	3.06
86	1952	907	393	1301	88	3.15
87	1922	1185	129	1314	89	3.23
88	1924	1124	192	1316	90	3.32
89	1923	1142	175	1318	91	3.40
90	1951	1005	317	1322	92	3.49
91	1998	1008	347	1355	93	3.57
92	1999	1021	346	1367	94	3.66
93	1972	1003	379	1382	95	3.74
94	1971	989	397	1386	96	3.83
95	1983	1058	445	1503	97	3.91
96	1986	955	598	1553	98	4.00
97	1984	1017	573	1590	99	4.08

Bear River Surface Water Supply Index
January

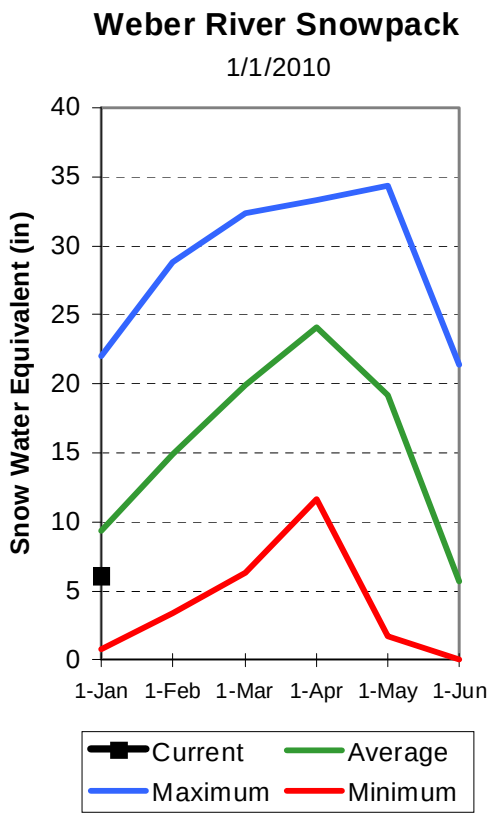


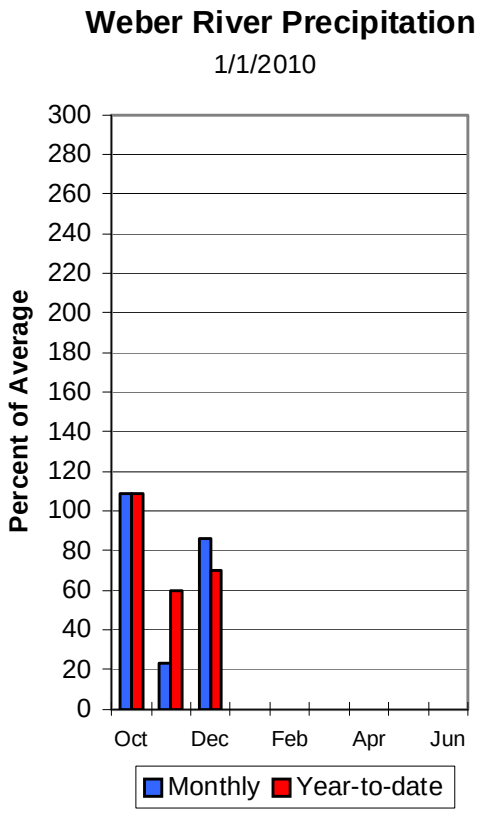
Bear River Surface Water Supply Index
January

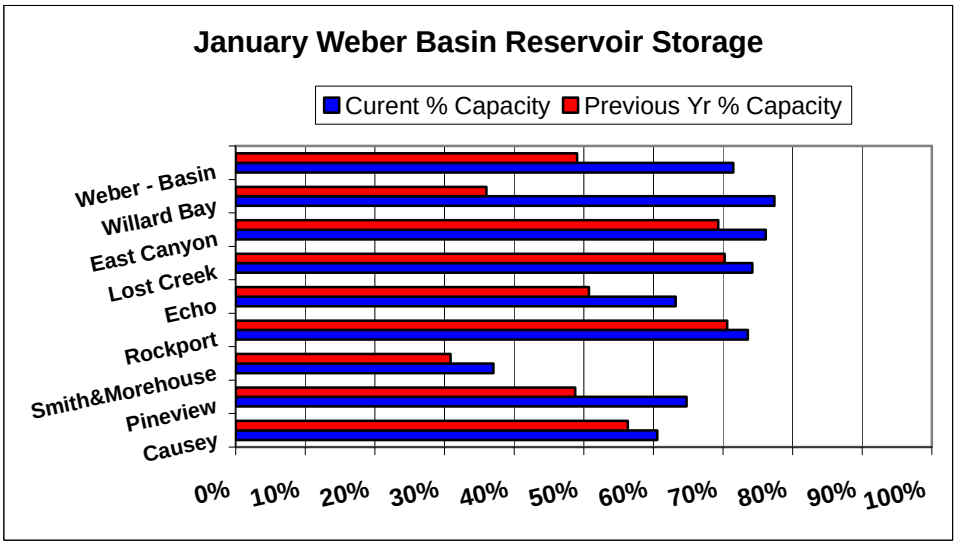


Weber and Ogden River Basins
January 1, 2010

Snowpacks on the Weber and Ogden Watersheds are average at 65%, about 72% of last year. Individual sites range from 44% to 79% of average. December precipitation was below average at 86% bringing the seasonal accumulation (Oct-Dec) to 70% of average. Soil moisture levels in runoff producing areas are at 45% of saturation in the upper 2 feet of soil compared to 50% last year. Streamflow forecasts (April-July) range from 55% to 76% of average. Reservoir storage is at 71% of capacity, 22% higher than last year. The Surface Water Supply Index is at 52% for the Weber River and 47% for the Ogden River indicating that overall water supply conditions are near average. This is the worst snowpack since 2000.







WEBER & OGDEN WATERSHEDS in Utah as of January 1, 2010

WEBER & OGDEN WATERSHEDS in Utah
Streamflow Forecasts - January 1, 2010

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)
Smith & Morehouse Res inflow	APR-JUL	14.8	21	26	77	31	37	34
Weber R nr Oakley, UT	APR-JUL	53	78	94	76	110	135	123
Rockport Reservoir	APR-JUL	30	69	95	71	121	160	134
Weber R nr Coalville, UT	APR-JUL	29	68	95	69	122	161	137
Chalk Creek at Coalville	APR-JUL	7.0	21	30	67	39	53	45
Echo Resv at Echo, UT	APR-JUL	41	85	115	64	145	189	179
Lost Ck Resv Inflow	APR-JUL	0.3	5.3	10.0	57	14.7	22	17.6
East Canyon Ck Nr Jeremy Ranch	APR-JUL	1.00	5.00	9.00	63	13.00	22.00	14.2
East Canyon Ck Nr Morgan, Ut	APR-JUL	2.0	11.3	19.0	61	27	38	31
Weber R at Gateway, UT	APR-JUL	18.0	138	220	62	300	420	355
SF Ogden R nr Huntsville, UT	APR-JUL	9.6	28	40	63	52	70	64
Pineview Resv Inflow	APR-JUL	4.0	44	80	60	116	169	133
Wheeler Ck Nr Huntsville, Ut	APR-JUL	0.32	2.30	4.10	65	5.90	8.50	6.30

WEBER & OGDEN WATERSHEDS in Utah
Reservoir Storage (1000 AF) - End of December

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
CAUSEY	7.1	4.3	4.0	2.8
EAST CANYON	49.5	37.7	34.3	34.9
ECHO	73.9	46.7	37.5	47.9
LOST CREEK	22.5	16.7	15.8	14.1
PINEVIEW	110.1	71.3	53.7	52.9
ROCKPORT	60.9	44.8	43.0	36.2
WILLARD BAY	215.0	166.4	77.4	147.7

WEBER & OGDEN WATERSHEDS in Utah
Watershed Snowpack Analysis - January 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
OGDEN RIVER	4	68	64
WEBER RIVER	9	74	66
WEBER & OGDEN WATERSHEDS	13	72	65

* 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.

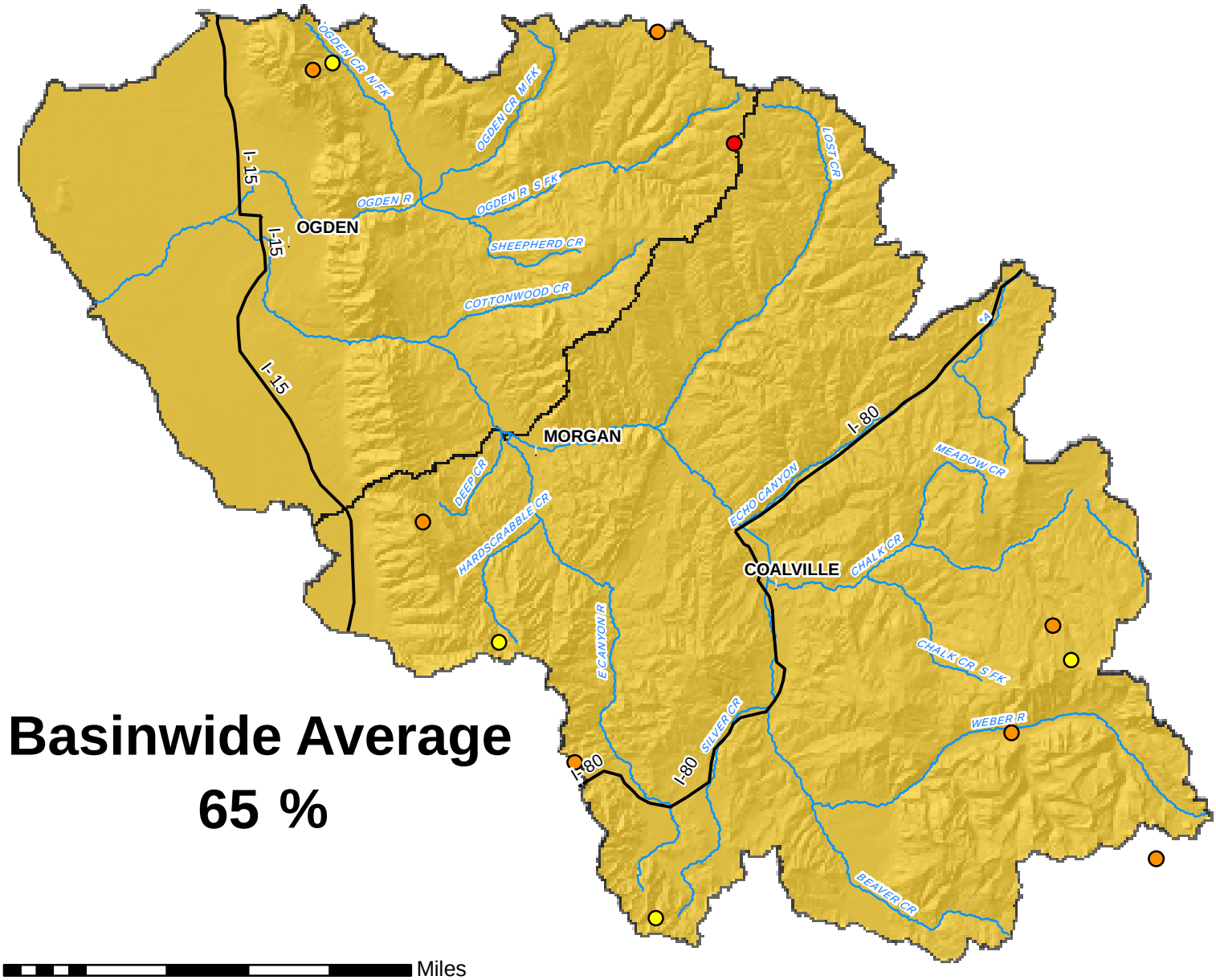
Weber & Ogden Basins

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

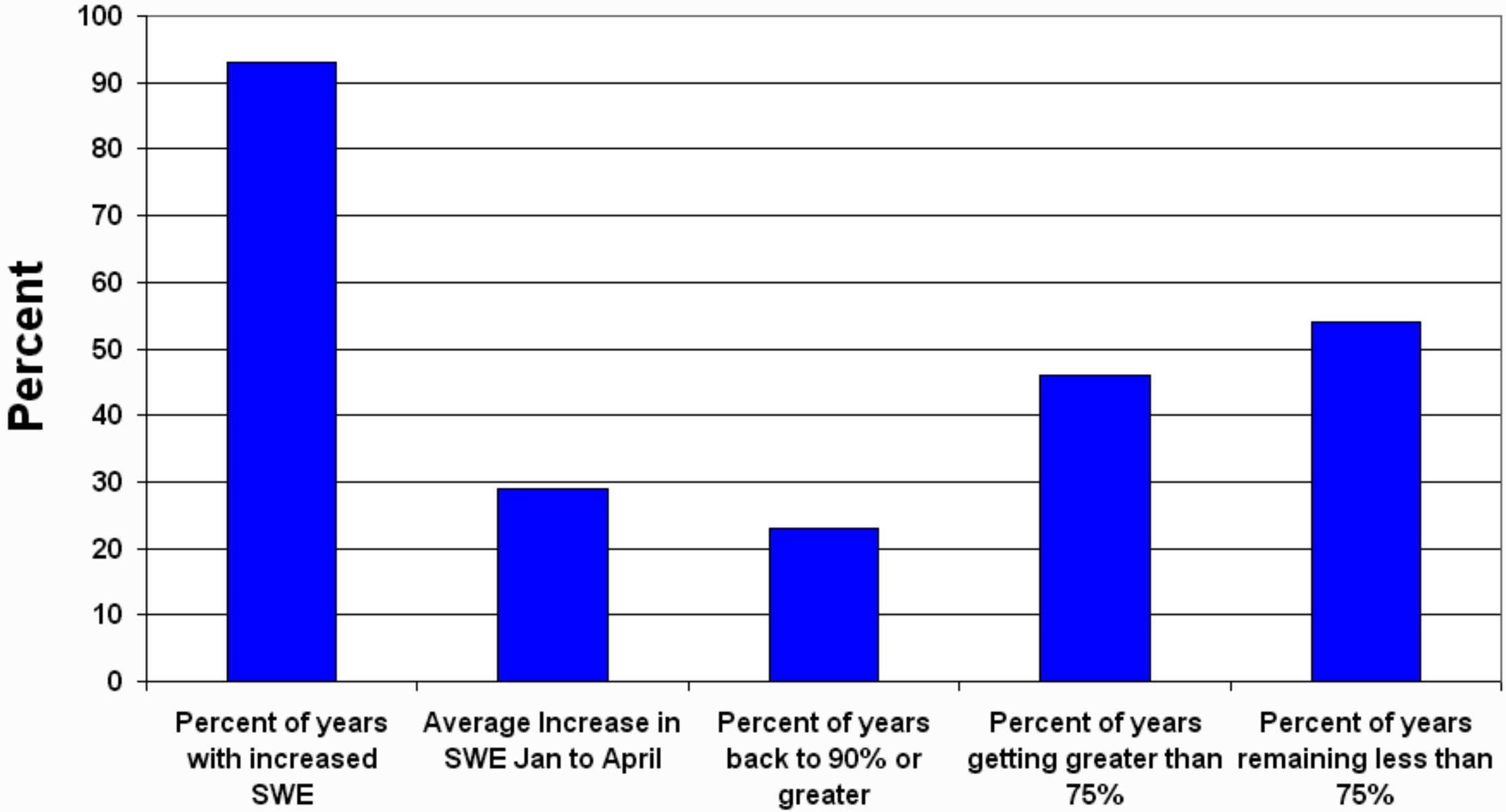
65 %

Miles

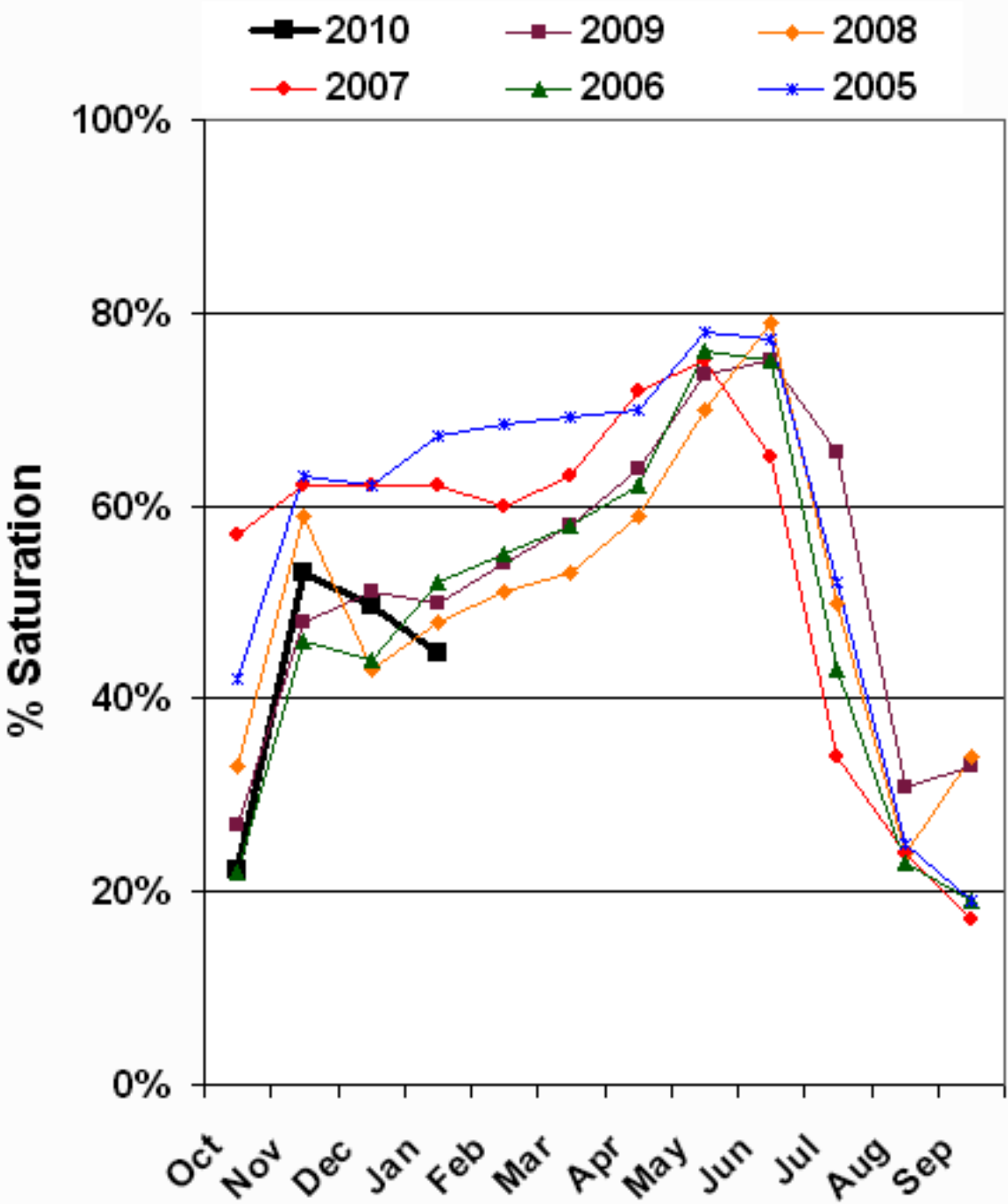
0 2.5 5 10 15 20 25

Provisional Data
Subject to Revision

Weber Basin Low Snow Analysis - April 1 outcome if Jan 1 is less than 75% of average

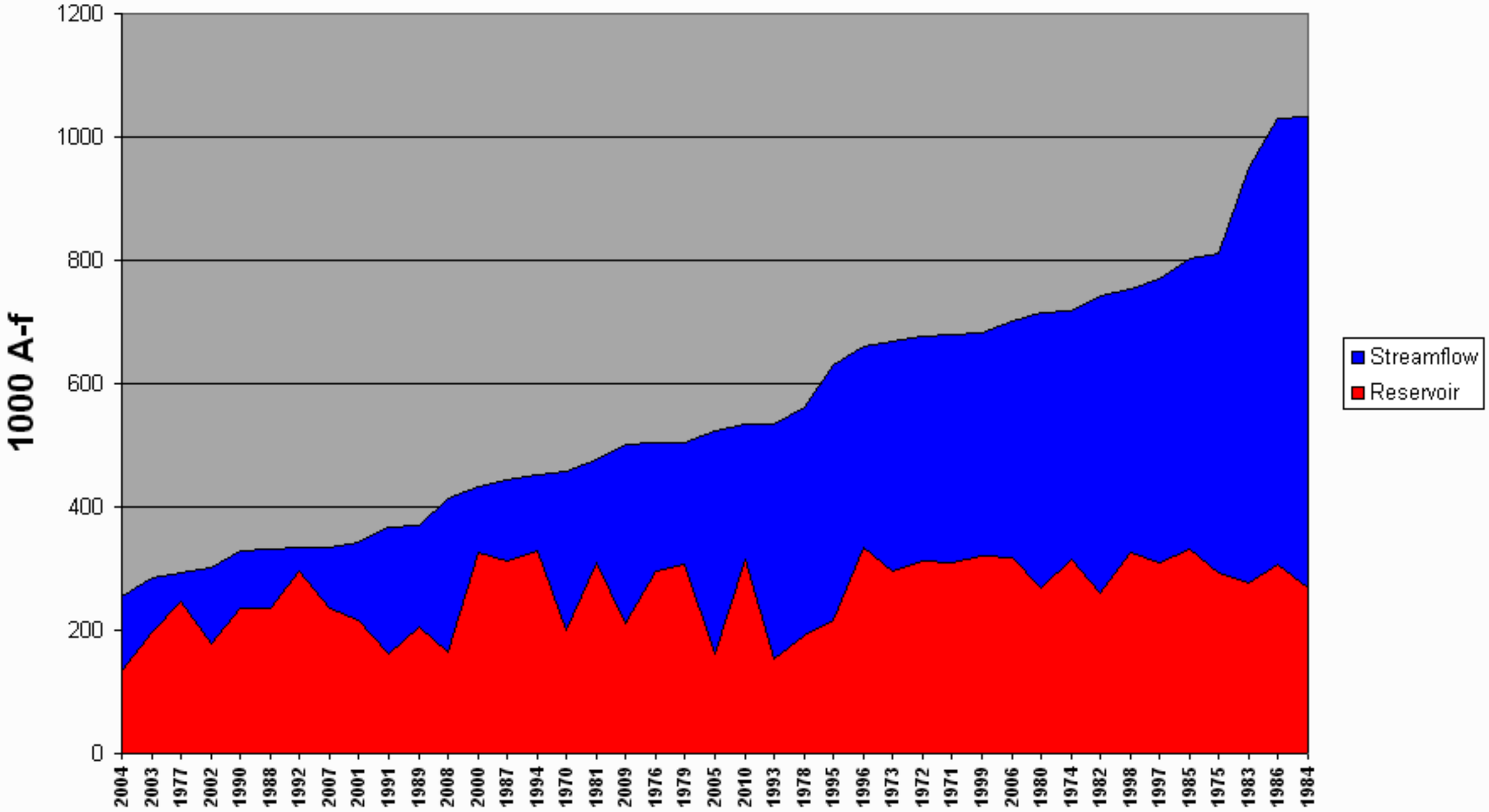


Weber River Soil Moisture

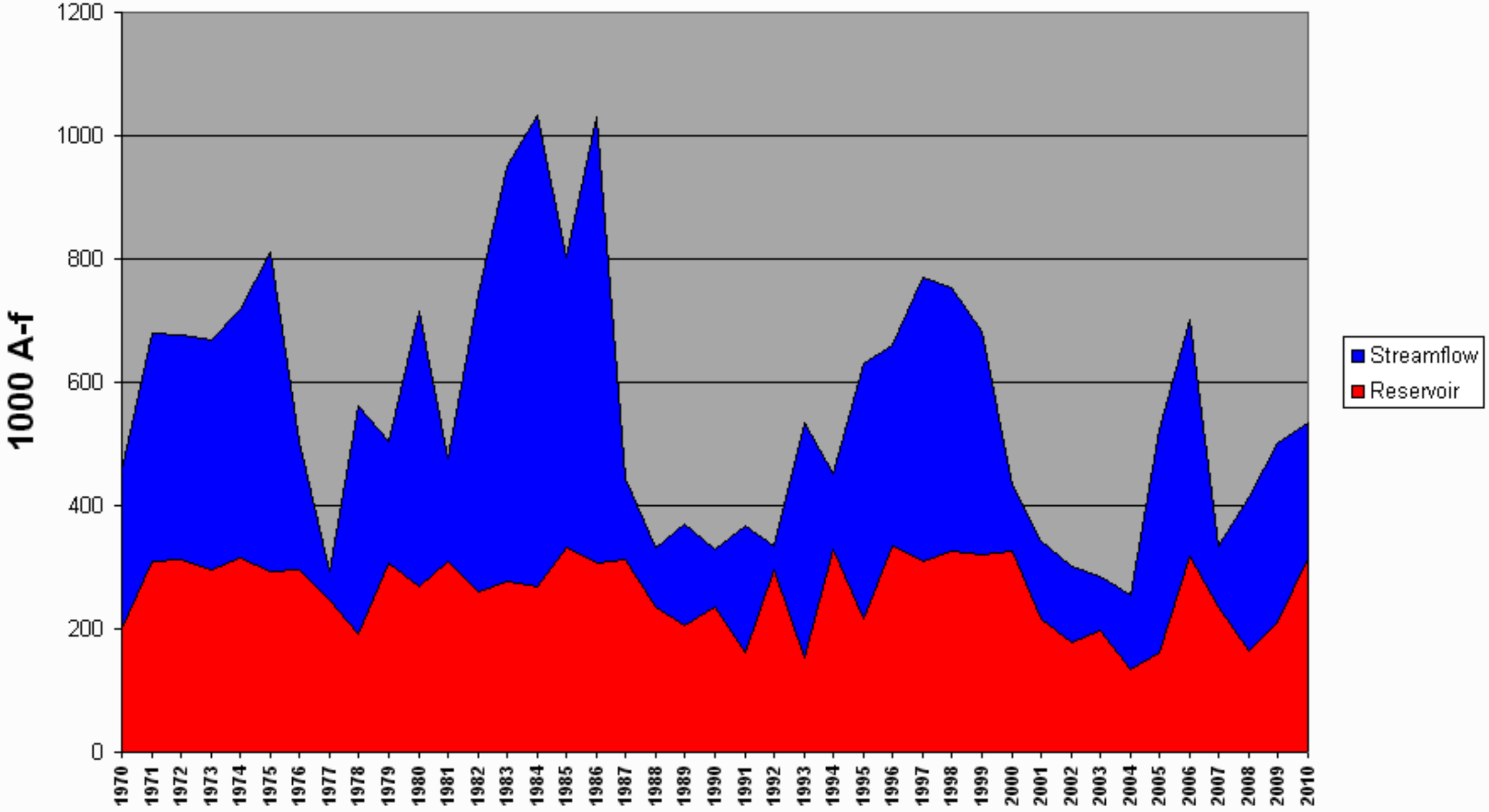


Weber SWSI						
January 1						
#	Year	EOM December Reservoir KAF	Apr-Jul Streamflow KAF	Reservoir + Streamflow KAF	Probability	SWSI
1	2004	133	122	255	2	-3.97
2	2003	197	89	286	5	-3.77
3	1977	246	47	293	7	-3.57
4	2002	179	121	301	10	-3.37
5	1990	235	94	330	12	-3.17
6	1988	236	95	332	14	-2.98
7	1992	296	38	333	17	-2.78
8	2007	235	99	334	19	-2.58
9	2001	217	125	342	21	-2.38
10	1991	163	204	366	24	-2.18
11	1989	206	163	369	26	-1.98
12	2008	163	250	413	29	-1.79
13	2000	326	107	433	31	-1.59
14	1987	312	131	444	33	-1.39
15	1994	329	122	451	36	-1.19
16	1970	201	257	458	38	-0.99
17	1981	310	166	475	40	-0.79
18	2009	211	290	501	43	-0.60
19	1976	296	209	505	45	-0.40
20	1979	306	199	505	48	-0.20
21	2005	162	362	524	50	0.00
22	**2010**	**315**	**220**	**535**	**52**	**0.20**
23	1993	152	383	535	55	0.40
24	1978	191	370	562	57	0.60
25	1995	216	413	629	60	0.79
26	1996	334	325	659	62	0.99
27	1973	296	372	669	64	1.19
28	1972	311	366	677	67	1.39
29	1971	310	370	680	69	1.59
30	1999	320	362	682	71	1.79
31	2006	319	382	701	74	1.98
32	1980	269	446	715	76	2.18
33	1974	316	403	718	79	2.38
34	1982	261	481	742	81	2.58
35	1998	326	428	754	83	2.78
36	1997	311	460	771	86	2.98
37	1985	331	471	802	88	3.17
38	1975	293	519	812	90	3.37
39	1983	277	674	951	93	3.57
40	1986	308	723	1030	95	3.77
41	1984	269	764	1033	98	3.97

Weber River Surface Water Supply Index
January

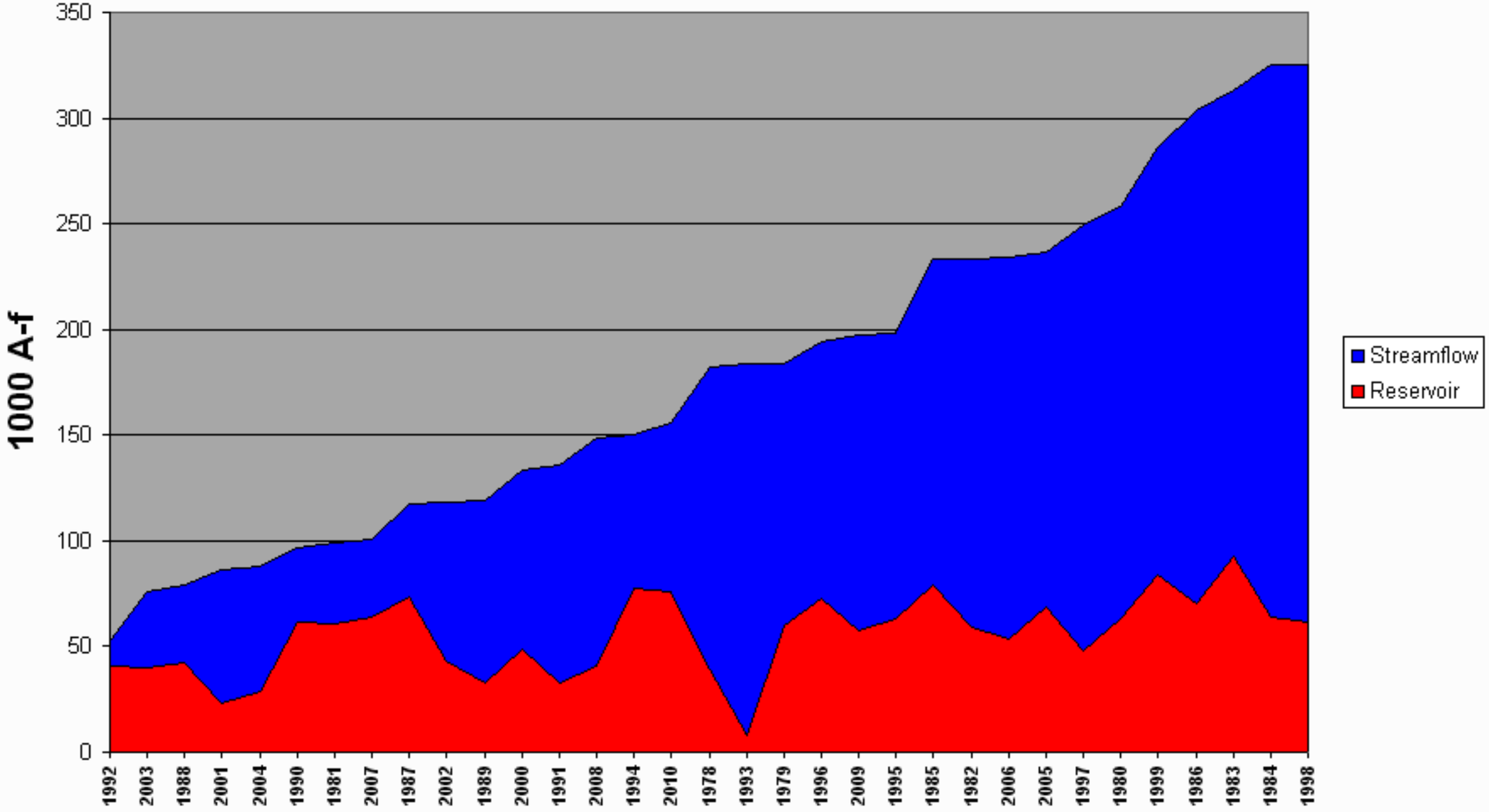


Weber River Surface Water Supply Index
January

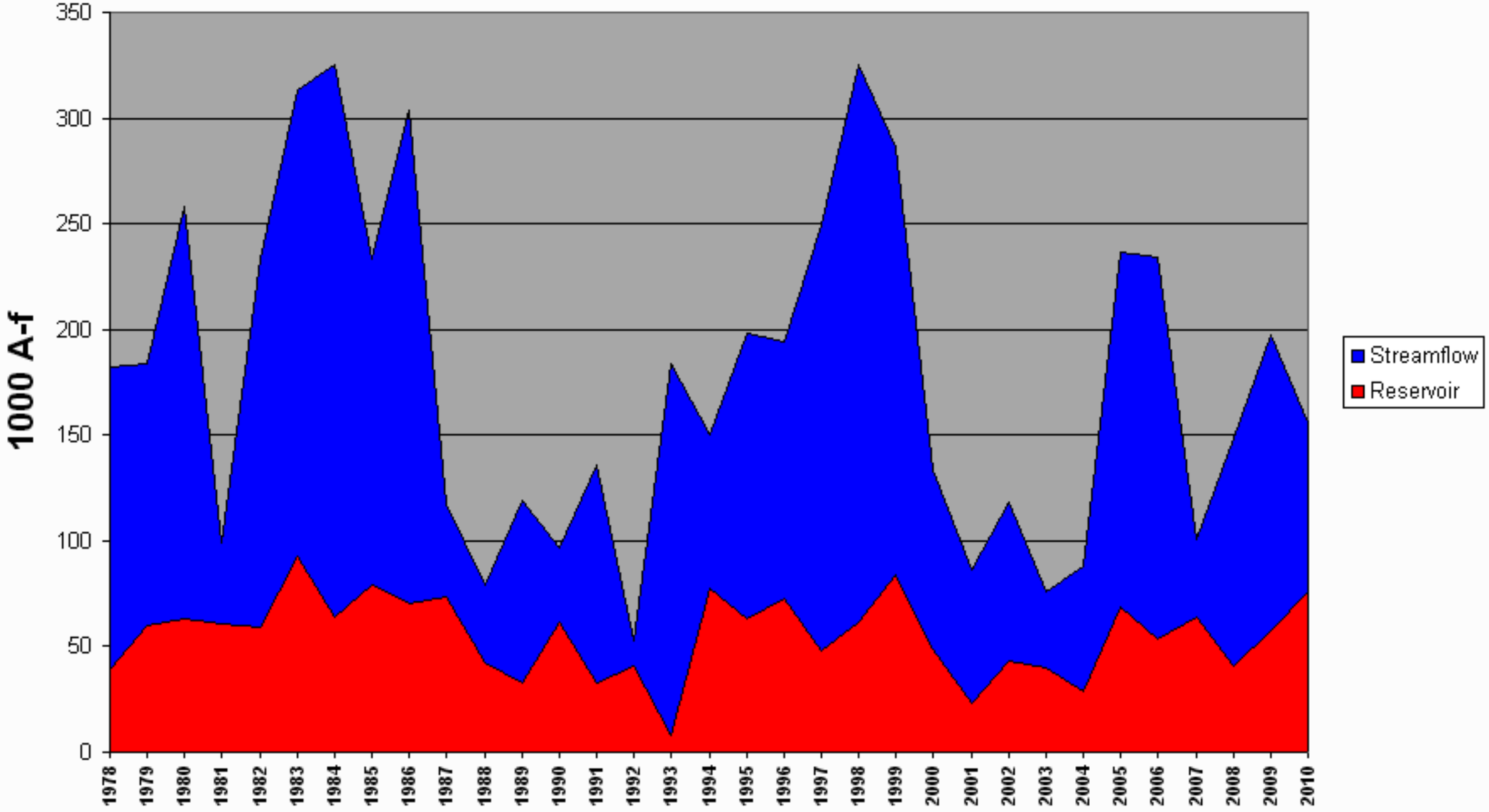


Ogden SWSI						
January 1						
#	Year	EOM December Reservoir KAF	Apr-Jul Streamflow KAF	Reservoir + Streamflow KAF	Probability	SWSI
1	1992	41	12	53	3	-3.92
2	2003	40	36	76	6	-3.68
3	1988	42	37	79	9	-3.43
4	2001	23	63	87	12	-3.19
5	2004	28	59	88	15	-2.94
6	1990	61	36	97	18	-2.70
7	1981	61	38	99	21	-2.45
8	2007	64	37	101	24	-2.21
9	1987	74	43	117	26	-1.96
10	2002	44	75	118	29	-1.72
11	1989	33	87	119	32	-1.47
12	2000	48	85	134	35	-1.23
13	1991	33	103	136	38	-0.98
14	2008	41	108	149	41	-0.74
15	1994	77	73	150	44	-0.49
16	**2010**	**76**	**80**	**156**	**47**	**-0.25**
17	1978	40	142	182	50	0.00
18	1993	8	175	183	53	0.25
19	1979	60	124	184	56	0.49
20	1996	73	121	194	59	0.74
21	2009	58	140	198	62	0.98
22	1995	63	135	198	65	1.23
23	1985	79	154	234	68	1.47
24	1982	59	174	234	71	1.72
25	2006	54	180	234	74	1.96
26	2005	69	167	236	76	2.21
27	1997	48	202	249	79	2.45
28	1980	63	195	258	82	2.70
29	1999	84	203	286	85	2.94
30	1986	71	233	304	88	3.19
31	1983	93	221	313	91	3.43
32	1984	64	261	325	94	3.68
33	1998	61	264	325	97	3.92

Ogden River Surface Water Supply Index
January

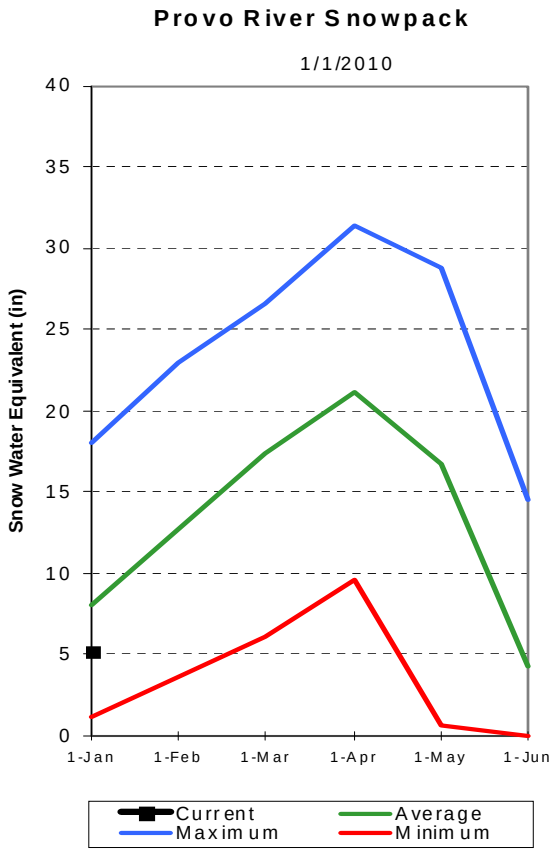


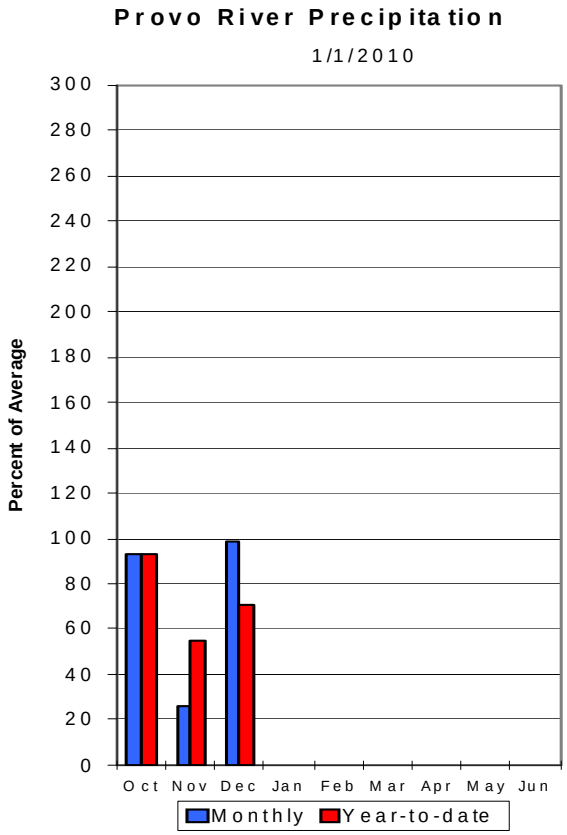
Ogden River Surface Water Supply Index
January

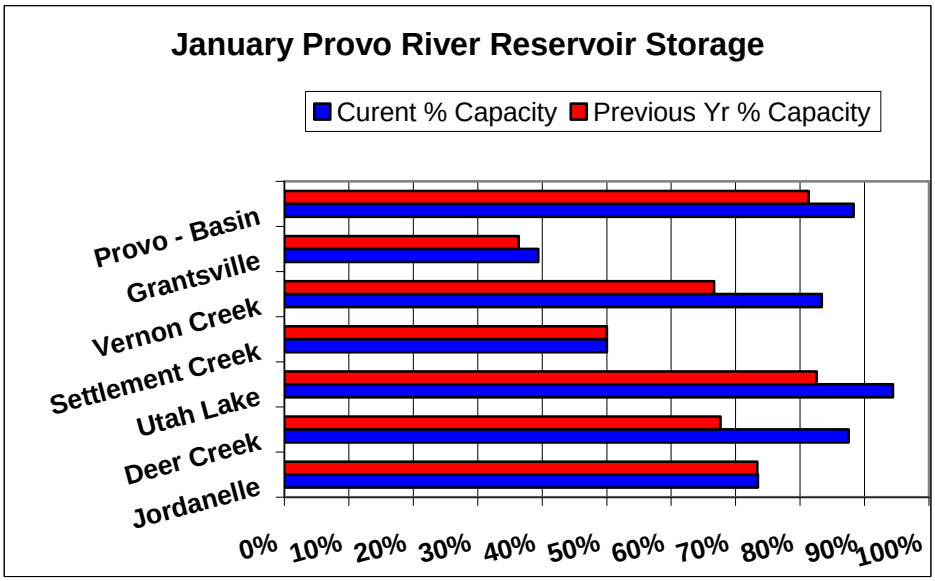


Utah Lake, Jordan River & Tooele Valley Basins
January 1, 2010

Snowpack over these basins are much below average at 64%, which is 72% of last year. Individual sites range from 44% at Mill D South to 90% of average at Vernon Creek. December precipitation was near average at 99%, bringing the seasonal accumulation (Oct-Dec) to 71% of average. Average soil moisture in runoff producing areas is estimated at 29% of saturation in the upper 2 feet of soil compared to 39% at this time last year. Reservoir storage is at 88% of capacity, 7% higher than last year. Streamflow forecasts (Apr-July) range from 42% to 79% of average. The Surface Water Supply Index below Deer Creek reservoir is 47%, indicating general water supply conditions are near normal.







UTAH LAKE, JORDAN RIVER & TOOELE VALLEY as of January 1, 2010

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY
Streamflow Forecasts - January 1, 2010

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)
Salt Ck At Nephi, Ut	APR-JUL	0.2	3.0	6.0	45	9.0	13.3	13.3
Spanish Fk at Castilla, UT	APR-JUL	1.5	25	55	71	85	129	77
Provo River nr Woodland	APR-JUL	43	63	77	75	91	111	103
Provo River nr Hailstone	APR-JUL	36	60	77	71	94	118	109
Provo R blw Deer Ck Dam, UT	APR-JUL	20	62	90	71	118	160	126
American Fk abv Upper Powerplant	APR-JUL	1.9	11.6	20	63	28	41	32
Utah Lake inflow	APR-JUL	51	164	240	74	315	430	325
West Canyon Ck Nr Cedar Fort	APR-JUL	0.18	0.59	1.00	42	1.52	2.50	2.40
Little Cottonwood Ck nr SLC	APR-JUL	18.1	25	30	75	35	42	40
Big Cottonwood Ck nr SLC, UT	APR-JUL	17.9	25	30	79	35	42	38
Mill Ck nr SLC, UT	APR-JUL	1.39	3.20	4.50	64	5.80	7.60	7.00
Parleys Ck nr SLC, UT	APR-JUL	0.5	6.2	10.3	62	14.4	20	16.7
Dell Fork nr SLC, UT	APR-JUL	0.14	1.51	4.00	59	6.50	10.20	6.80
Emigration Ck nr SLC, UT	APR-JUL	0.14	1.20	2.70	60	4.20	5.90	4.50
City Ck nr SLC, UT	APR-JUL	0.78	3.60	5.60	64	7.60	10.40	8.70
Vernon Creek nr Vernon	APR-JUL	0.47	0.71	0.93	63	1.22	1.84	1.48
Settlement Creek Abv Resv Nr Tooele,	APR-JUL	0.31	0.77	1.20	57	1.73	2.70	2.10
South Willow Ck nr Grantsville, UT	APR-JUL	0.23	1.28	2.00	62	2.70	3.80	3.23

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY
Reservoir Storage (1000 AF) - End of December

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
DEER CREEK	149.7	131.0	101.3	102.0
GRANTSVILLE	3.3	1.3	1.2	1.6
SETTLEMENT CREEK	1.0	0.5	0.5	0.5
STRAWBERRY-ENLARGED	1105.9	974.0	936.0	640.0
UTAH LAKE	870.9	822.0	719.0	756.5
VERNON CREEK	0.6	0.5	0.4	---

UTAH LAKE, JORDAN RIVER & TOOELE VALLEY
Watershed Snowpack Analysis - January 1, 2010

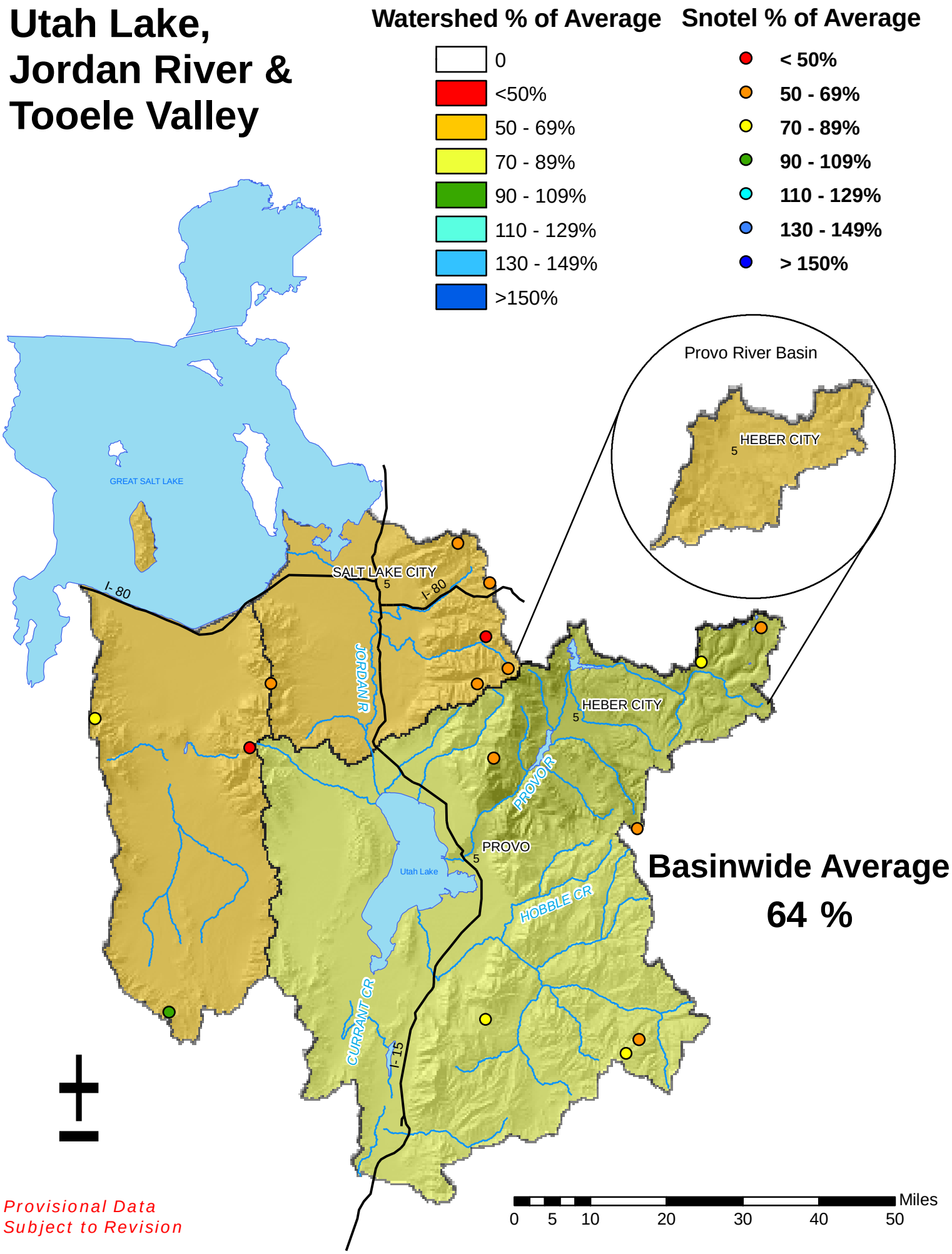
Watershed	Number of Data Sites	This Year as % of Last Yr	Average
PROVO RIVER & UTAH LAKE	7	80	70
PROVO RIVER	4	75	69
JORDAN RIVER & GSL	6	66	59
TOOELE & RUSH VALLEY WATE	3	74	64
UTAH LAKE/JORDAN R./TOOEL	16	73	64

* 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.

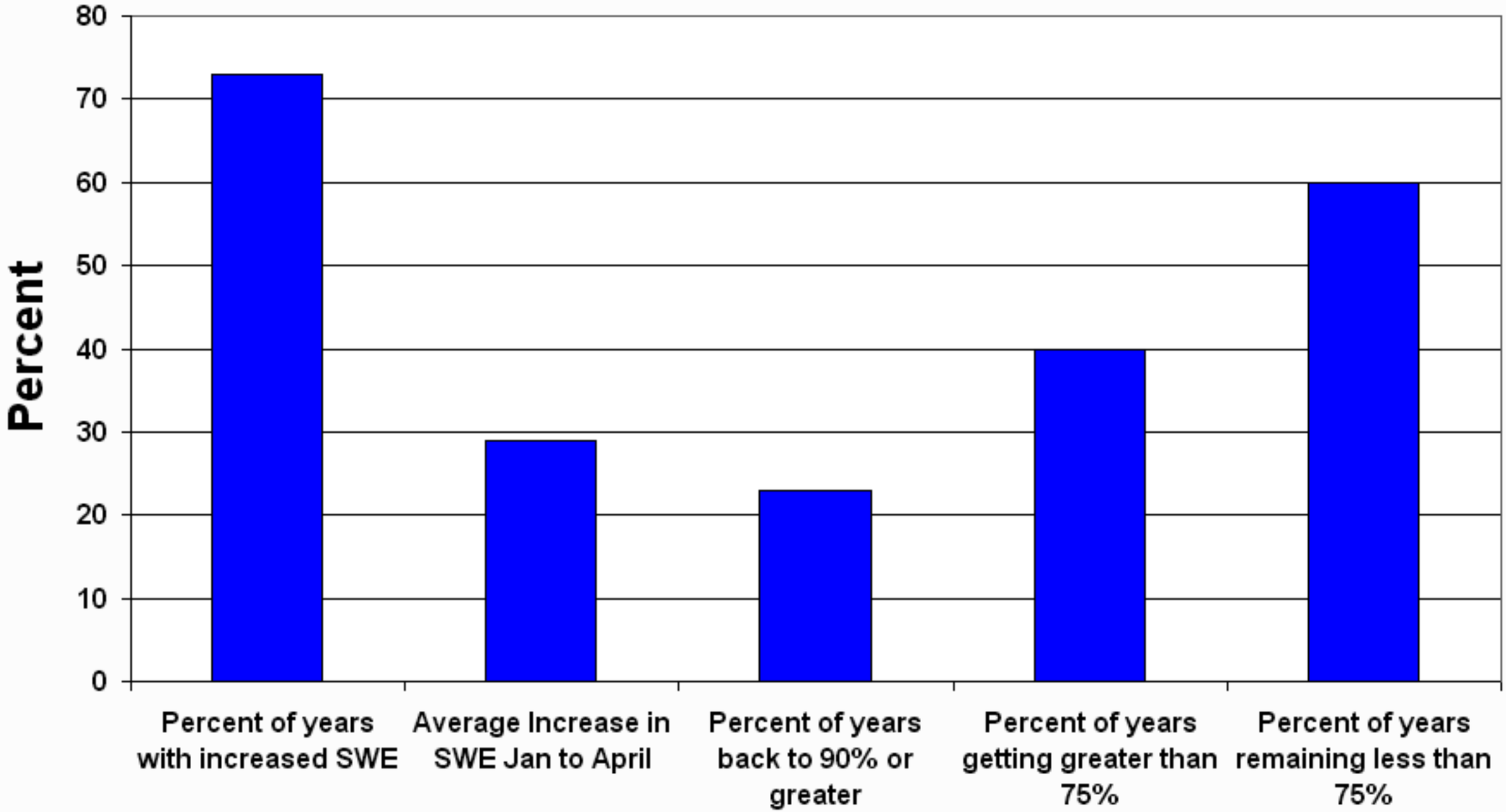
(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

Utah Lake, Jordan River & Tooele Valley

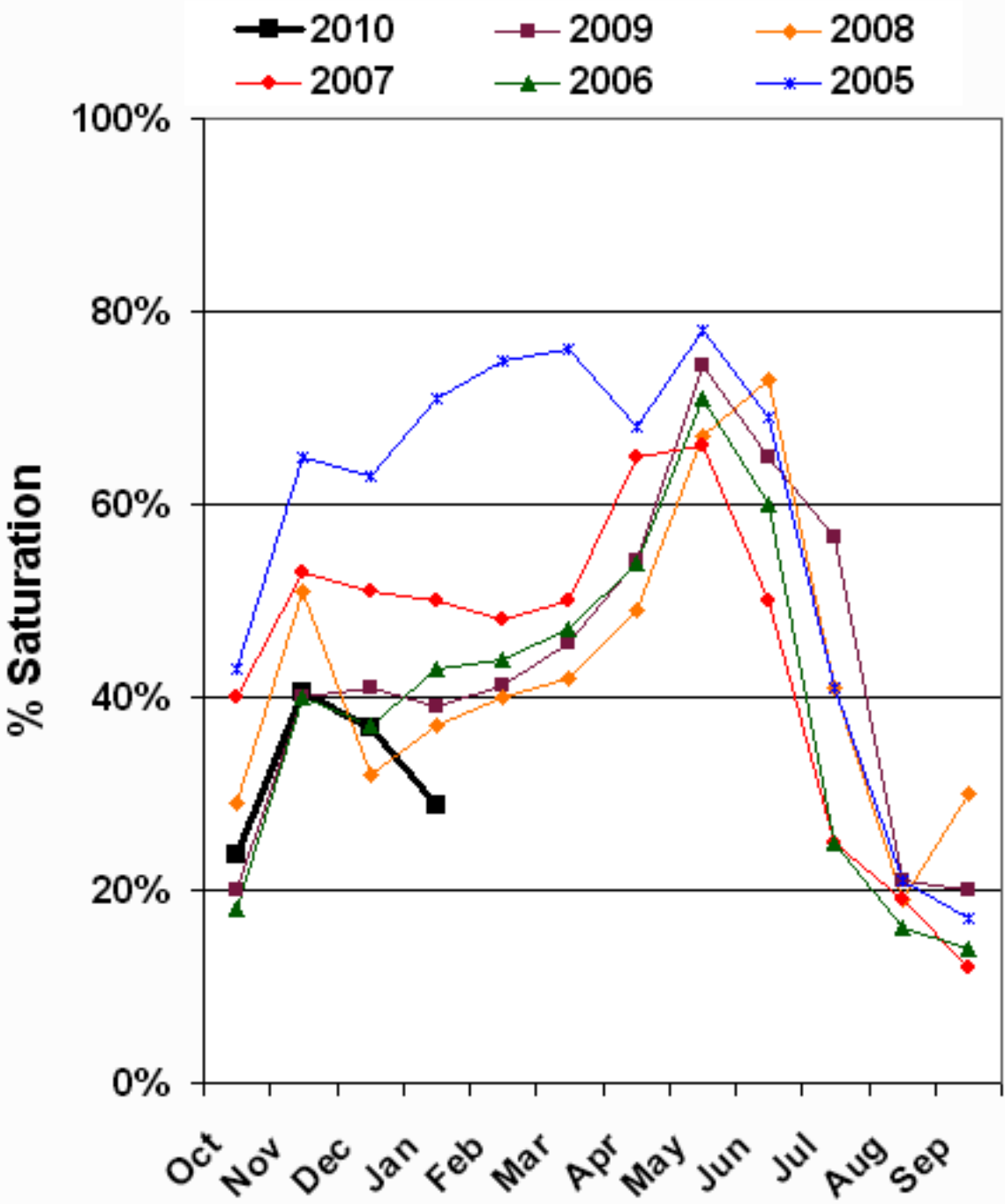


Provisional Data
Subject to Revision

Provo River Low Snow Analysis - April 1 outcome if Jan 1 is less than 75% of Average



Jordan/Provo River Soil Moisture

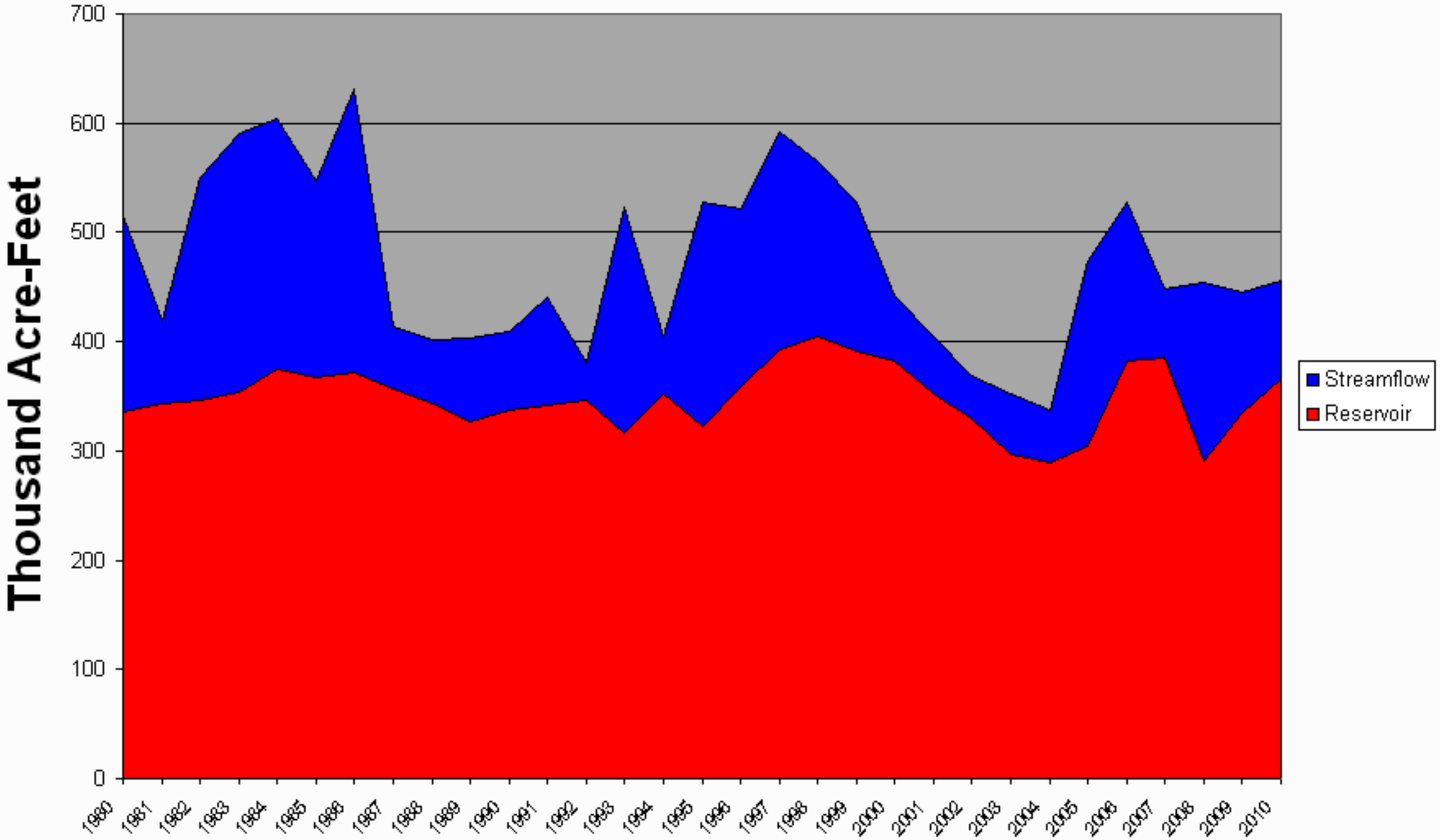


January

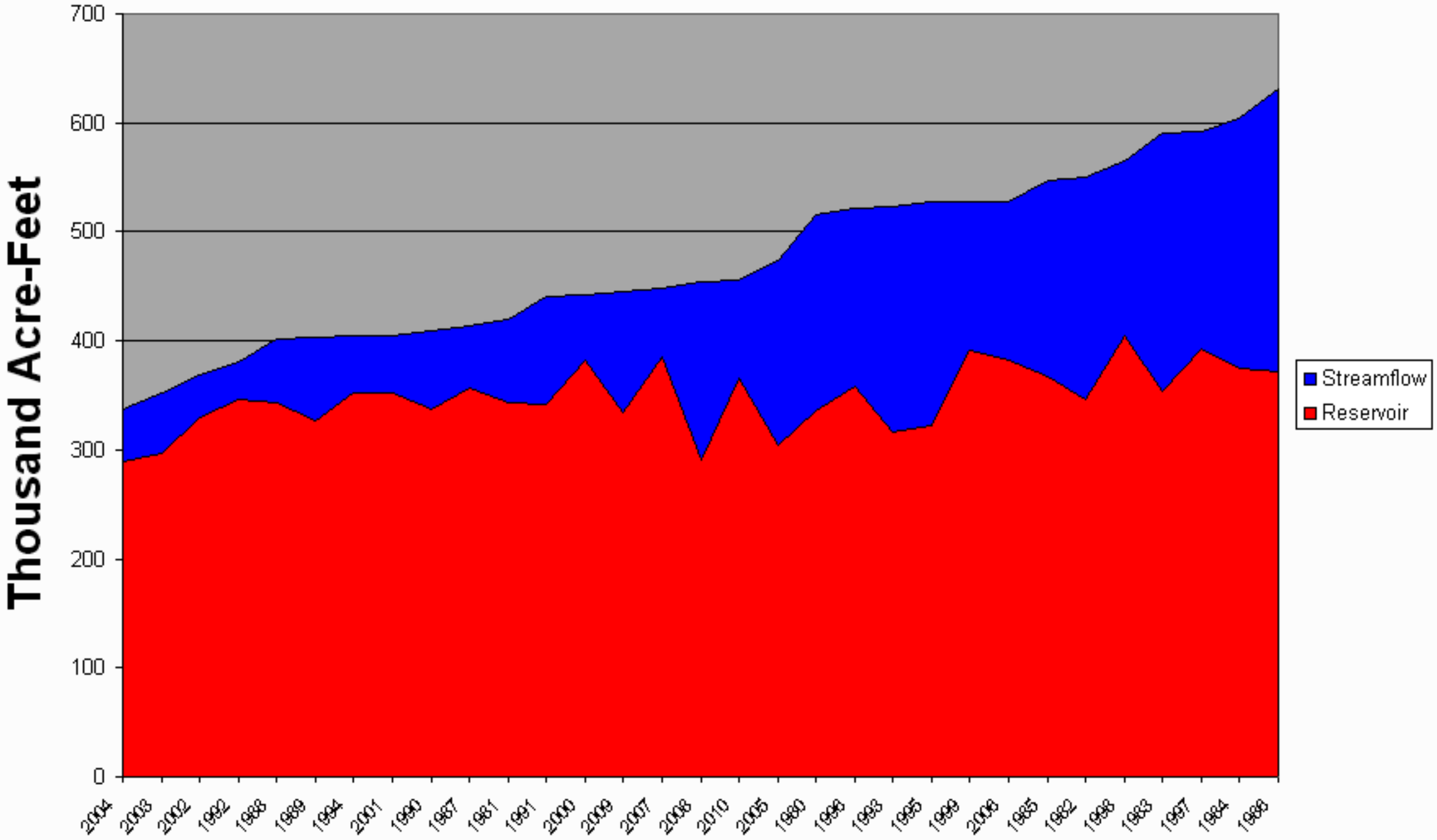
Provo River SWSI @ inflow of Deer Creek - BOR data

				# of years	**31**	
Rank	WY	December EOM Reservior Storage (KAF)	April - July Predicted Streamflow (KAF)	Streamflow + EOM Storage	Non-Exceedance Probability	January SWSI
1	2004	289	47	337	0.97	3.91
2	2003	297	55	352	0.94	3.65
3	2002	330	39	369	0.91	3.39
4	1992	346	35	381	0.88	3.13
5	1988	343	59	402	0.84	2.86
6	1989	327	76	403	0.81	2.60
7	1994	353	51	404	0.78	2.34
8	2001	352	52	404	0.75	2.08
9	1990	337	72	409	0.72	1.82
10	1987	357	56	413	0.69	1.56
11	1981	343	77	420	0.66	1.30
12	1991	341	99	441	0.63	1.04
13	2000	382	60	443	0.59	0.78
14	2009	334	112	446	0.56	0.52
15	2007	386	63	449	0.53	0.26
16	2008	290	164	454	0.50	0.00
17	**2010**	**366**	**90**	**456**	**0.47**	**-0.26**
18	2005	304	169	474	0.44	-0.52
19	1980	336	180	516	0.41	-0.78
20	1996	359	163	522	0.38	-1.04
21	1993	316	208	523	0.34	-1.30
22	1995	322	206	528	0.31	-1.56
23	1999	392	136	528	0.28	-1.82
24	2006	383	145	528	0.25	-2.08
25	1985	367	180	547	0.22	-2.34
26	1982	347	203	550	0.19	-2.60
27	1998	405	160	565	0.16	-2.86
28	1983	354	237	591	0.13	-3.13
29	1997	392	199	592	0.09	-3.39
30	1984	375	229	604	0.06	-3.65
31	1986	372	260	632	0.03	-3.91

Provo River SWSI @ Deer Creek Inflow

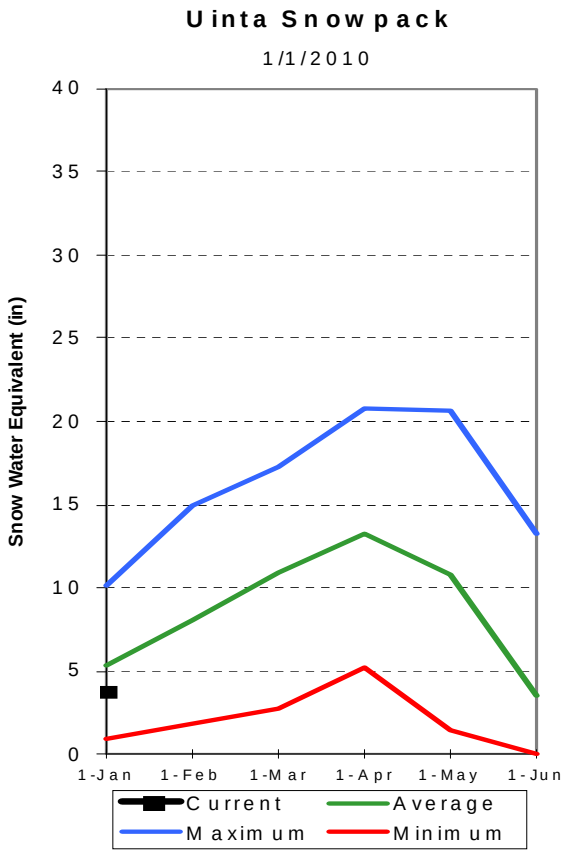


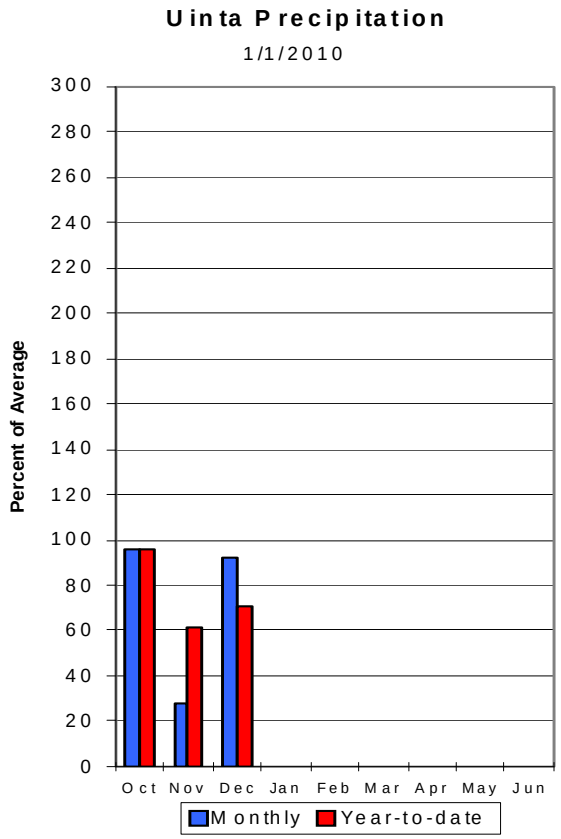
Provo River SWSI @ Deer Creek Inflow

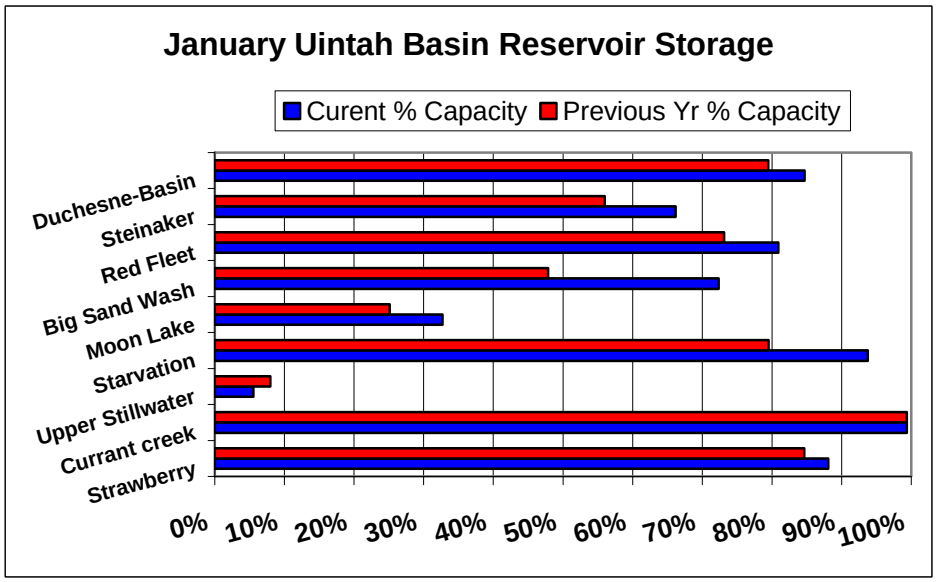


Uintah Basin and Dagget SCD's
January 1, 2010

Snowpack across the Uintas is below average at 72%, which is 89% of last year. Individual sites on the North Slope range from 83% to 96% and on the South Slope range from 55% to 85% of average. Precipitation during December was near average at 92% bringing the seasonal accumulation (Oct-Dec) to 71%. Soil moisture values in runoff producing areas are at 18% of saturation in the upper 2 feet of soil compared to 31% last year. Dry soils generally indicate less snowmelt runoff. Reservoir storage is at 85% of capacity, 6% more than last year. Streamflow forecasts (Apr-July) range from 56% to 81% of average. The Surface Water Supply Index for the western area is 49% and for the eastern area it is 53% indicating near normal conditions over the entire basin.







UINTAH BASIN & DAGGET SCD'S as of January 1, 2010

UINTAH BASIN & DAGGET SCD'S
Streamflow Forecasts - January 1, 2010

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 Fork nr Robertson	APR-JUL	45	61	73	77	86	107	95
EF of Smiths Fork nr Robertson (2)	APR-JUL	13.2	18.2	22	76	26	33	29
Flaming Gorge Reservoir Inflow (2)	APR-JUL	390	600	770	65	960	1270	1190
Big Brush Ck abv Red Fleet Resv	APR-JUL	10.2	14.0	17.0	81	20	26	21
Ashley Creek nr Vernal	APR-JUL	24	34	42	81	51	65	52
Duchesne R nr Tabiona (2)	APR-JUL	45	65	80	76	97	125	105
Upper Stillwater Reservoir Inflow	APR-JUL	44	56	66	81	76	93	82
Rock Ck nr Mountain Home (2)	APR-JUL	48	61	72	81	83	102	89
Duchesne R abv Knight Diversion (2)	APR-JUL	89	121	146	78	173	215	188
Strawberry R nr Soldier Springs (2)	APR-JUL	12.9	27	40	68	55	82	59
Currant Creek Reservoir Inflow (2)	APR-JUL	7.2	13.0	18.0	72	24	34	25
Strawberry R nr Duchesne (2)	APR-JUL	31	59	84	69	113	163	121
Lake Fork River Moon Lake Inflow	APR-JUL	34	45	53	78	62	76	68
Yellowstone River nr Altonah	APR-JUL	30	39	47	76	55	68	62
Duchesne R at Myton (2)	APR-JUL	49	108	161	62	225	340	260
Uinta R bl Powerplant Div nr Neola	APR-JUL	22	35	55	70	75	105	79
Whiterocks nr Whiterocks	APR-JUL	23	33	41	73	50	65	56
Duchesne R nr Randlett (2)	APR-JUL	72	86	180	56	275	415	324

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

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
FLAMING GORGE	3749.0	3246.0	2983.0	3027.0
MOON LAKE	49.5	11.7	9.0	26.1
RED FLEET	25.7	20.8	18.8	17.5
STEINAKER	33.4	22.1	18.7	20.0
STARVATION	165.3	155.0	131.4	128.6
STRAWBERRY-ENLARGED	1105.9	974.0	936.0	640.0

UINTAH BASIN & DAGGET SCD'S
Watershed Snowpack Analysis - January 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
UPPER GREEN RIVER in UTAH	6	137	86
ASHLEY CREEK	2	128	85
BLACK'S FORK RIVER	2	121	79
SHEEP CREEK	1	213	110
DUCHESNE RIVER	11	76	66
LAKE FORK-YELLOWSTONE CRE	4	68	65
STRAWBERRY RIVER	4	82	65
UINTAH-WHITEROCKS RIVERS	2	81	72
UINTAH BASIN & DAGGET SCD	17	89	72

* 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.

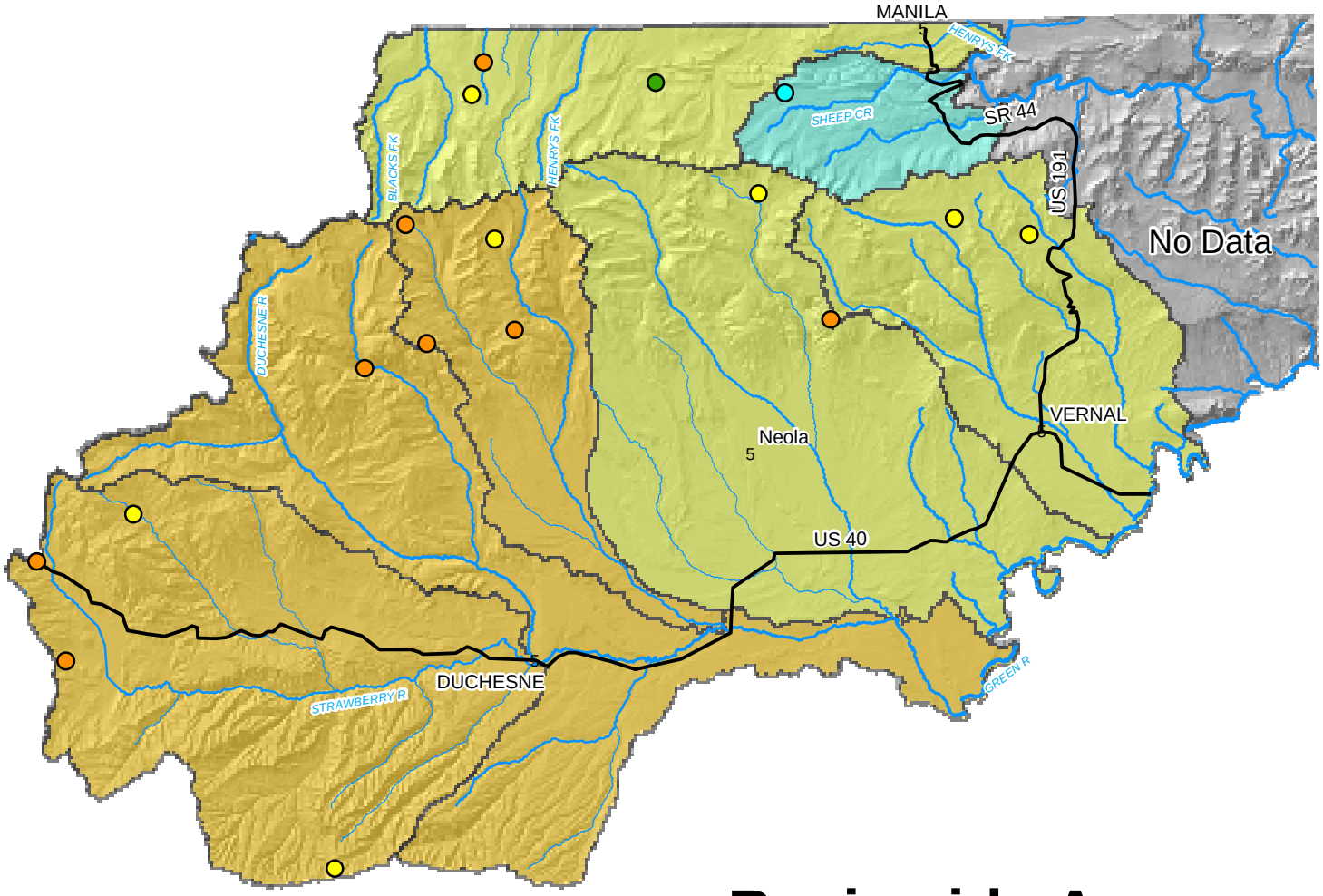
Uintah Basin & Dagget SCD's

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%

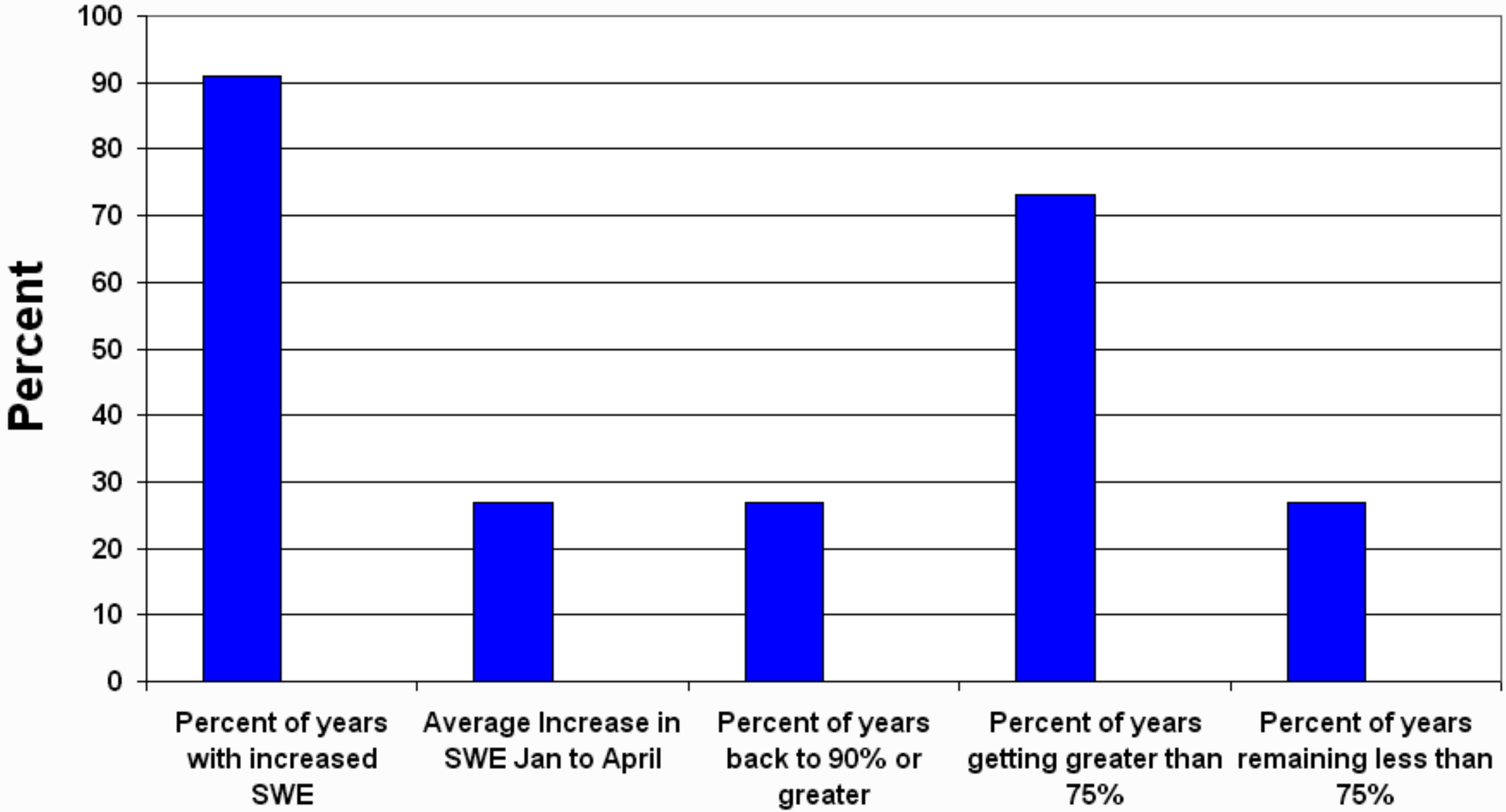


Basinwide Average
72 %

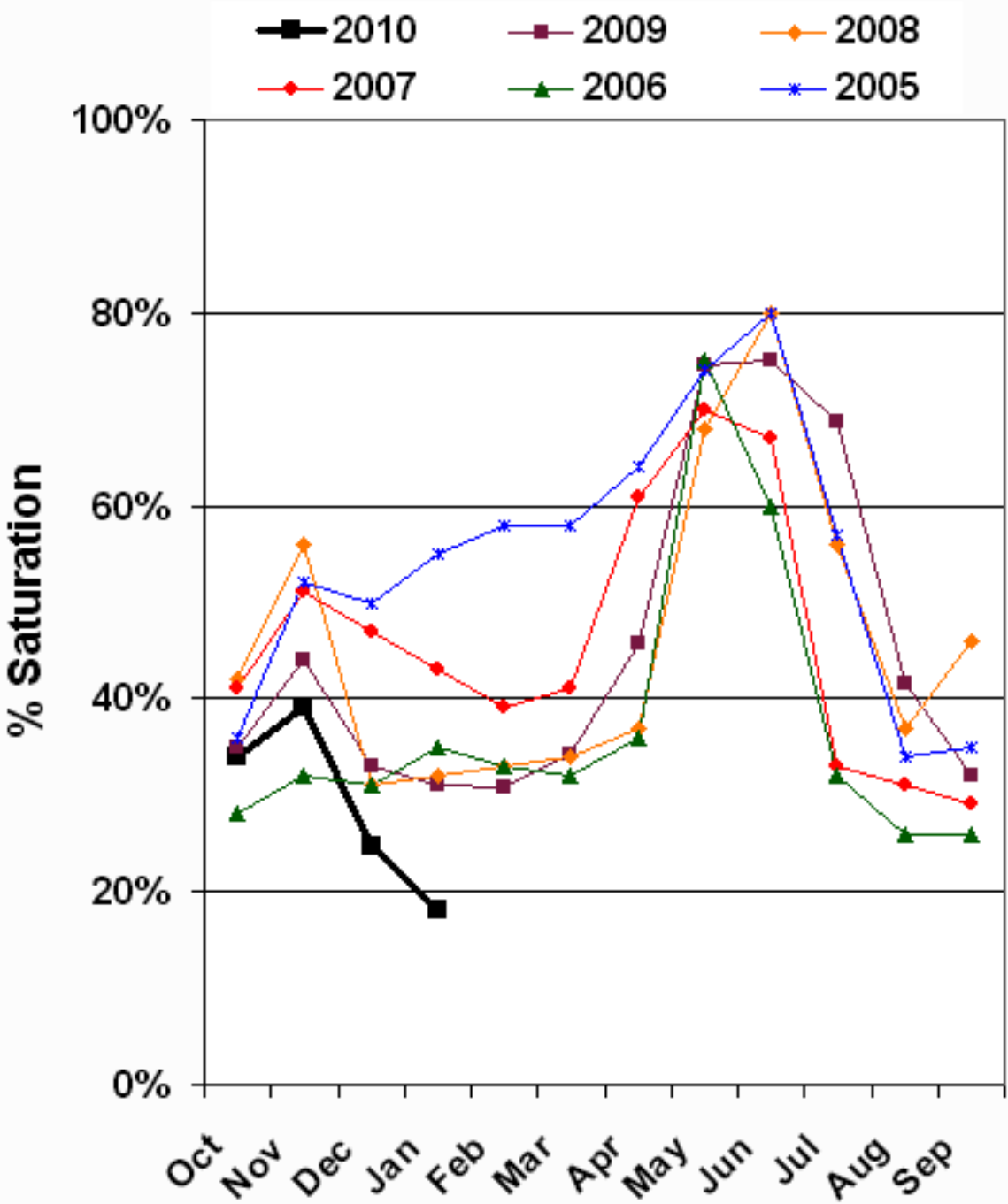
Provisional Data
Subject to Revision

Miles
0 5 10 20 30 40 50

Uintah Basin Low Snow Analysis - April 1 outcome if Jan 1 is less than 75% of Average



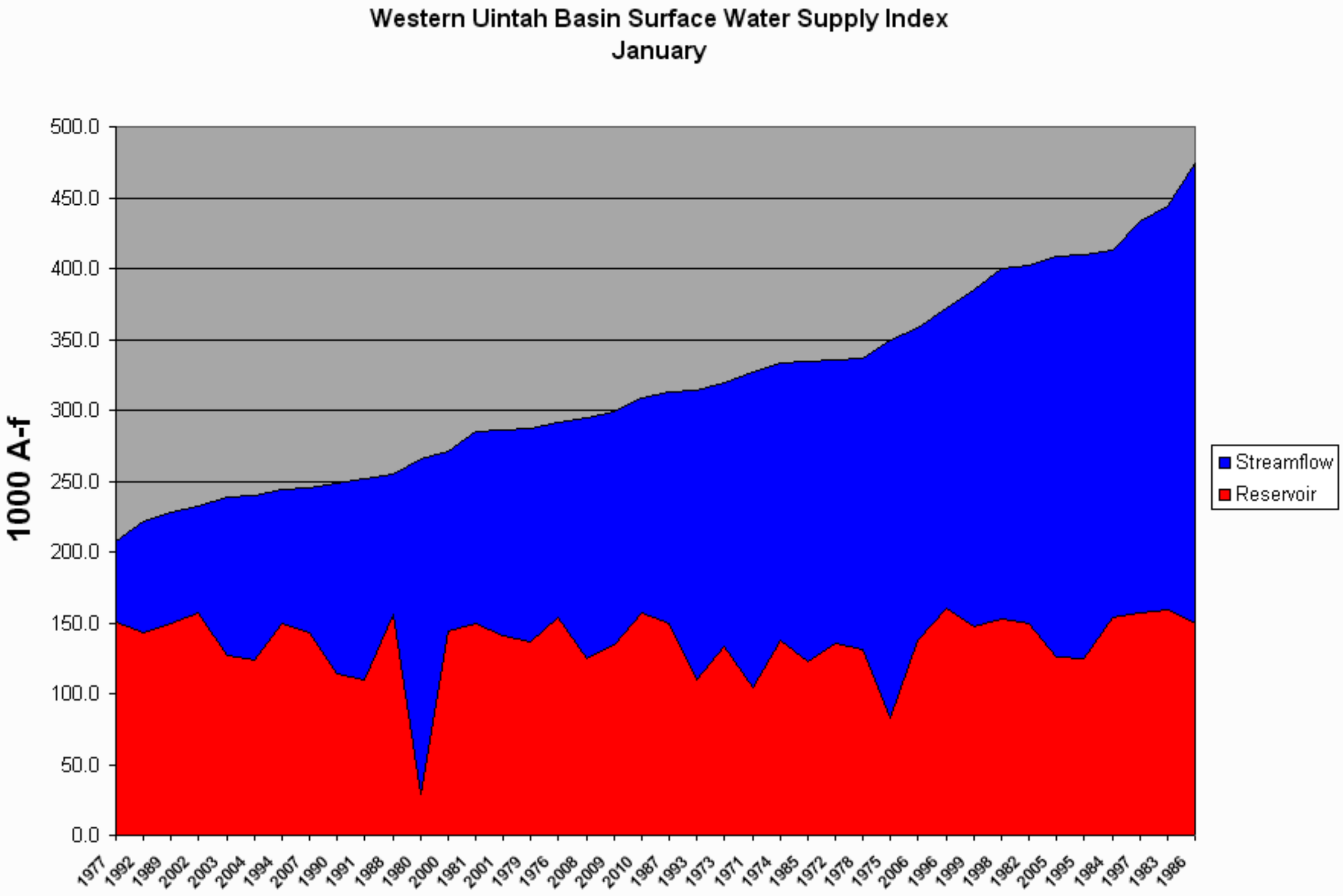
Uintah Basin Soil Moisture



WESTERN UINTA BASIN SWSI

January 1, 2010 **# of years** **40**

#	Year	EOM December Reservoir KAF	Apr-Jul Streamflow KAF	Reservoir + Streamflow KAF	Probability	SWSI
1	1977	150.1	57.0	207.1	2	-3.96
2	1992	142.8	78.6	221.4	5	-3.76
3	1989	149.1	78.7	227.9	7	-3.56
4	2002	156.6	75.6	232.3	10	-3.35
5	2003	126.7	112.1	238.9	12	-3.15
6	2004	123.2	116.8	240.0	15	-2.95
7	1994	149.6	94.7	244.3	17	-2.74
8	2007	142.8	102.8	245.6	20	-2.54
9	1990	114.0	134.8	248.8	22	-2.34
10	1991	109.5	142.2	251.7	24	-2.13
11	1988	156.4	98.1	254.5	27	-1.93
12	1980	29.2	236.8	266.0	29	-1.73
13	2000	143.9	127.1	271.0	32	-1.52
14	1981	149.5	135.8	285.3	34	-1.32
15	2001	141.1	144.7	285.8	37	-1.12
16	1979	136.9	150.0	286.9	39	-0.91
17	1976	154.0	137.6	291.6	41	-0.71
18	2008	124.8	169.5	294.3	44	-0.51
19	2009	134.1	165.0	299.1	46	-0.30
20	**2010**	**156.8**	**152.0**	**308.8**	49	-0.10
21	1987	149.8	162.9	312.8	51	0.10
22	1993	110.2	203.9	314.1	54	0.30
23	1973	133.1	186.8	319.9	56	0.51
24	1971	103.8	222.7	326.5	59	0.71
25	1974	137.9	195.5	333.4	61	0.91
26	1985	122.2	212.1	334.3	63	1.12
27	1972	135.1	200.3	335.4	66	1.32
28	1978	131.7	204.8	336.5	68	1.52
29	1975	82.9	266.6	349.5	71	1.73
30	2006	137.4	220.6	357.9	73	1.93
31	1996	160.2	211.7	371.9	76	2.13
32	1999	147.2	237.4	384.6	78	2.34
33	1998	152.6	247.2	399.7	80	2.54
34	1982	149.5	252.7	402.3	83	2.74
35	2005	125.9	282.7	408.6	85	2.95
36	1995	124.3	284.9	409.2	88	3.15
37	1984	154.3	258.2	412.5	90	3.35
38	1997	157.0	276.7	433.7	93	3.56
39	1983	159.4	285.2	444.6	95	3.76
40	1986	149.2	324.7	473.9	98	3.96


Western Uintah Basin Surface Water Supply Index
January
1000 A-f
500.0
450.0
400.0
350.0
300.0
250.0
200.0
150.0
100.0
50.0
0.0
1977
1992
1989
2002
2003
2004
1994
2007
1990
1991
1988
1980
2000
1981
2001
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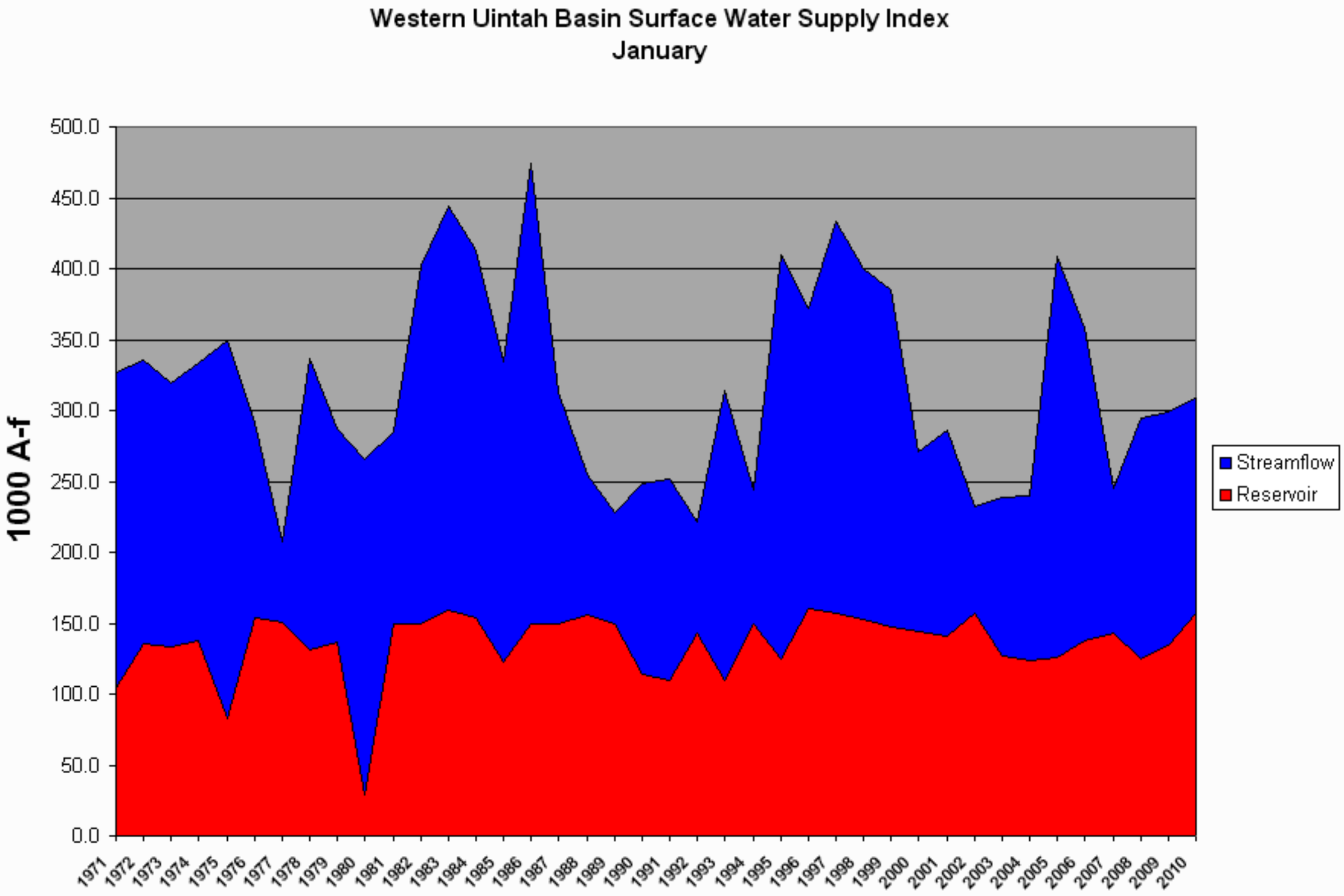
Streamflow
Reservoir


Western Uintah Basin Surface Water Supply Index
January
1000 A-f
500.0
450.0
400.0
350.0
300.0
250.0
200.0
150.0
100.0
50.0
0.0
1971
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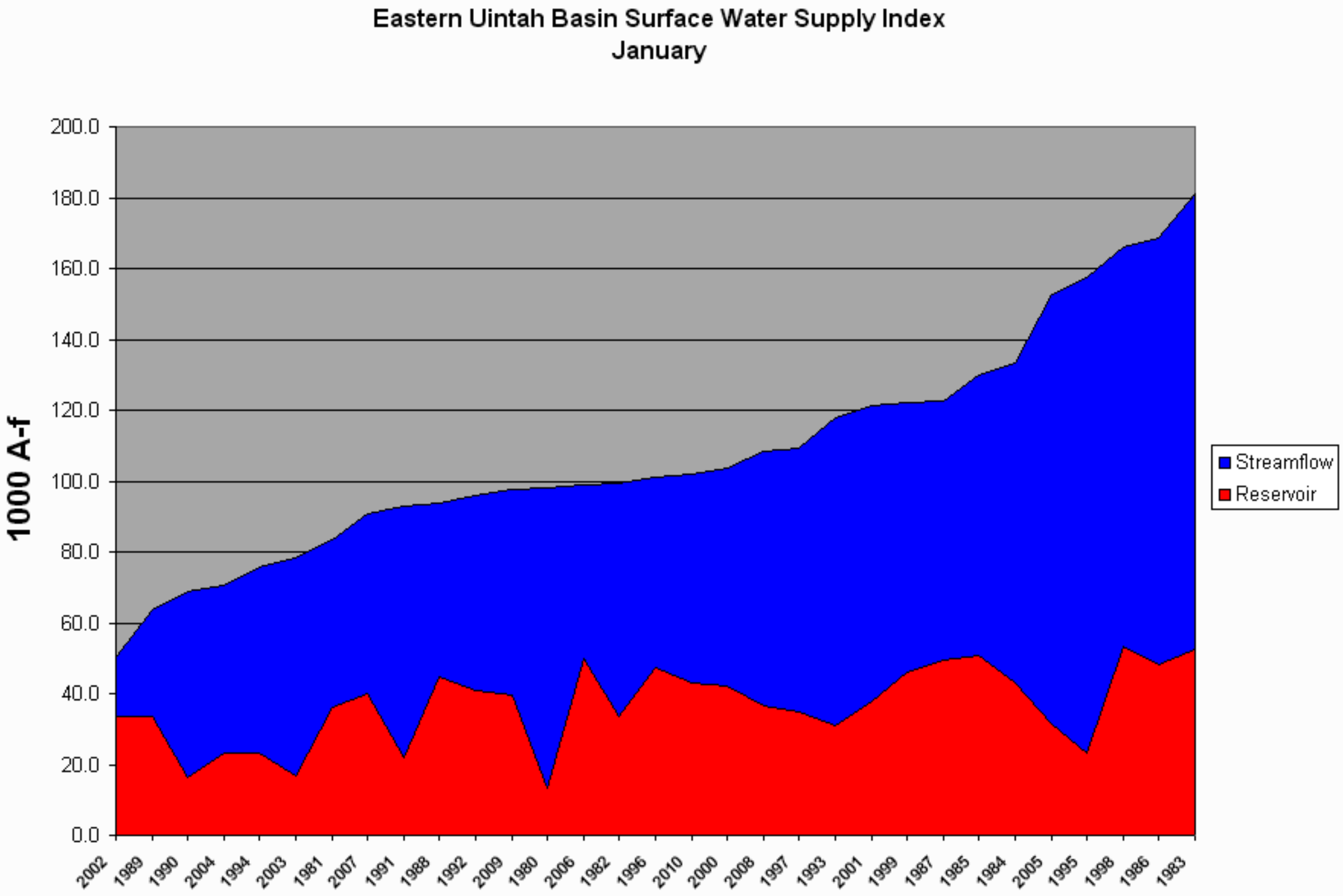
2007
2008
2009
2010
Streamflow
Reservoir

EASTERN UINTA BASIN SWSI

January 1, 2010 **# of years** **31**

#	Year	EOM December Reservoir KAF	Apr-Jul Streamflow KAF	Reservoir + Streamflow KAF	Probability	SWSI
1	2002	33.4	16.7	50.1	3	-3.91
2	1989	33.6	30.1	63.7	6	-3.65
3	1990	16.4	52.4	68.8	9	-3.39
4	2004	23.4	47.0	70.4	13	-3.13
5	1994	23.3	52.3	75.5	16	-2.86
6	2003	16.9	61.2	78.1	19	-2.60
7	1981	36.2	47.1	83.2	22	-2.34
8	2007	40.1	50.6	90.8	25	-2.08
9	1991	22.0	71.1	93.1	28	-1.82
10	1988	44.8	49.0	93.8	31	-1.56
11	1992	40.8	55.0	95.8	34	-1.30
12	2009	39.8	58.0	97.8	38	-1.04
13	1980	13.2	85.0	98.2	41	-0.78
14	2006	49.9	49.0	99.0	44	-0.52
15	1982	33.5	65.7	99.2	47	-0.26
16	1996	47.2	54.1	101.3	50	0.00
17	**2010**	**42.9**	**59.0**	**101.9**	**53**	**0.26**
18	2000	41.9	61.7	103.6	56	0.52
19	2008	36.4	72.0	108.4	59	0.78
20	1997	34.8	74.6	109.4	63	1.04
21	1993	31.0	87.1	118.0	66	1.30
22	2001	37.8	83.6	121.3	69	1.56
23	1999	46.1	76.2	122.3	72	1.82
24	1987	49.3	73.4	122.7	75	2.08
25	1985	50.6	79.1	129.8	78	2.34
26	1984	42.8	90.4	133.2	81	2.60
27	2005	31.4	121.1	152.5	84	2.86
28	1995	23.2	134.2	157.4	88	3.13
29	1998	53.5	112.6	166.2	91	3.39
30	1986	48.3	120.3	168.5	94	3.65
31	1983	52.6	128.4	181.0	97	3.91


Eastern Uintah Basin Surface Water Supply Index
January
1000 A-f
200.0
180.0
160.0
140.0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
2002
1989
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1998
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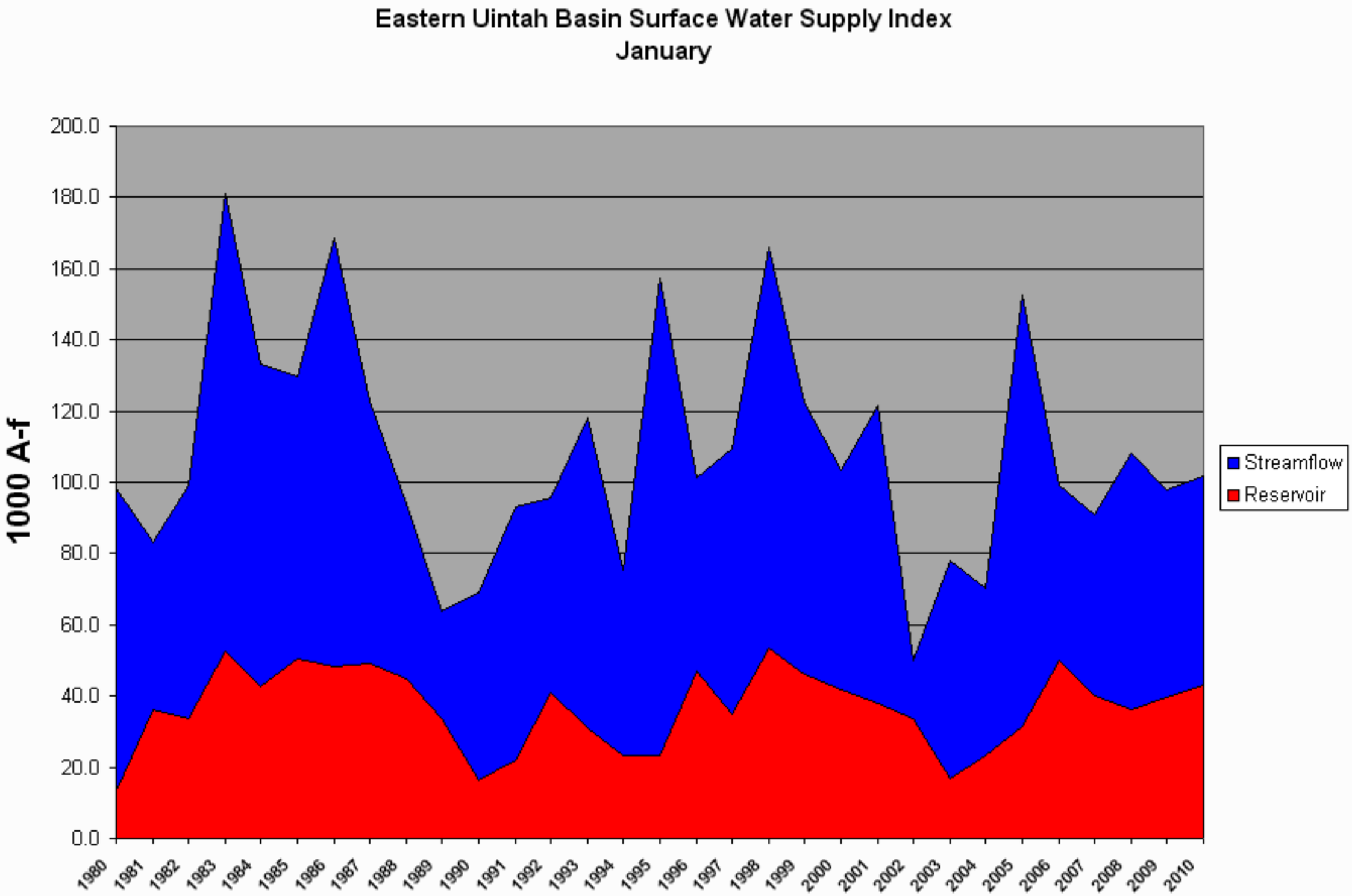
Streamflow
Reservoir


Eastern Uintah Basin Surface Water Supply Index
January
1000 A-f
200.0
180.0
160.0
140.0
120.0
100.0
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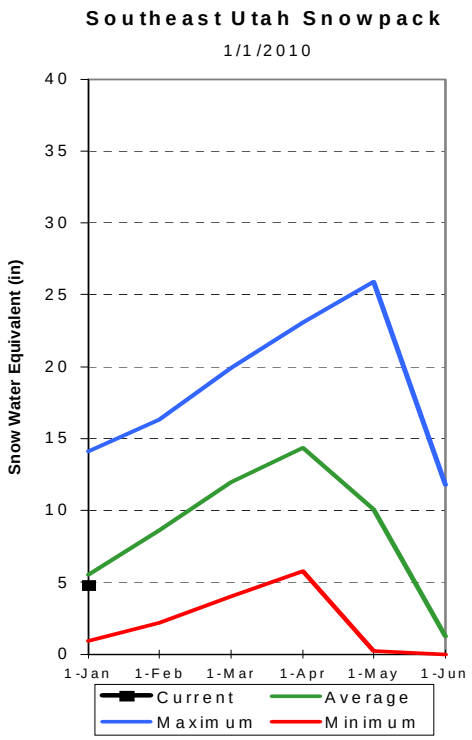
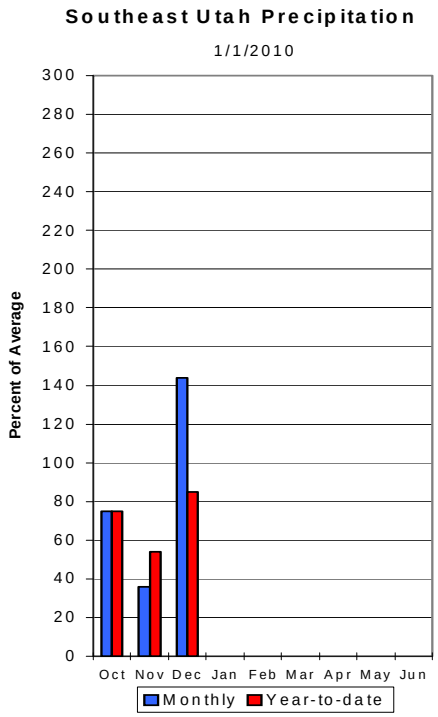
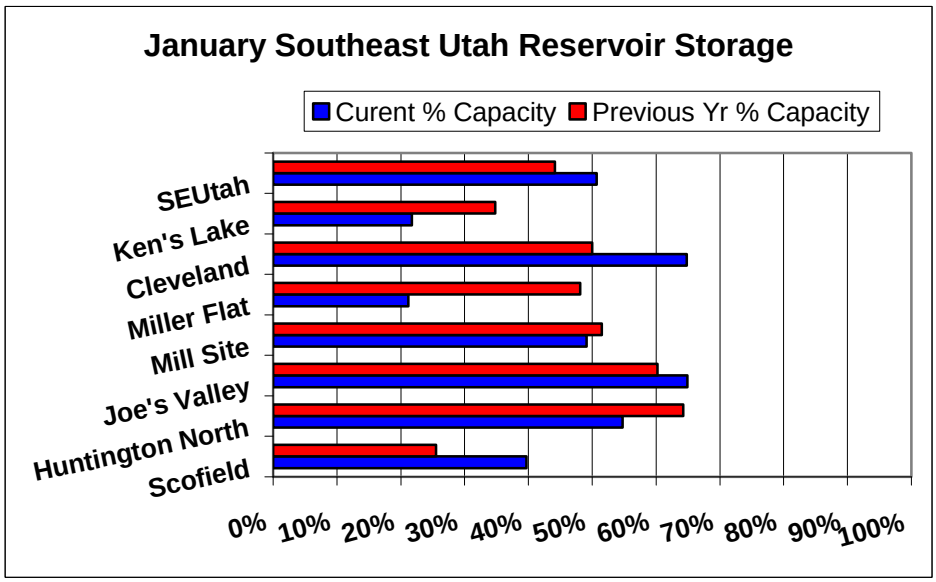
2008
2009
2010
Streamflow
Reservoir

Carbon, Emery, Wayne, Grand and San Juan Co.
January 1, 2010

Snowpacks in this region are below normal at 87% of average, about 101% of last year. Individual sites range from 56% to 152% of average. Precipitation during December was much above average at 144 %, bringing the seasonal accumulation (Oct-Dec) to 85% of normal. Soil moisture estimates in runoff producing areas are at 32% of saturation in the upper 2 feet of soil, 3% above last year at this time. Forecast streamflows (Apr – July) range from 71% to 101% of average. Reservoir storage is at 51% of capacity, up 7% from last year at this time. Surface Water Supply Indices for the area are: Price 46%, Joe's Valley 52%, Ferron Creek 41%, and Moab 63%. General runoff and water supply conditions are near average in the Price, Joe's Valley, and Ferron Creek areas, and above average in the Moab area.







CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co. as of January 1, 2010

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.
Streamflow Forecasts - January 1, 2010

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 Abv Reservoir Nr Scofield	APR-JUL	10.2	20	27	84	34	44	32
Price River nr Scofield Reservoir	APR-JUL	21	29	36	80	44	58	45
White River blw Tabbyune Creek	APR-JUL	5.6	9.6	13.0	75	16.9	24	17.3
Green River at Green River, UT (2)	APR-JUL	690	1620	2260	71	2900	3830	3170
Huntington Ck Inflow to Electric Lk	APR-JUL	6.5	9.6	12.0	76	14.7	19.2	15.7
Huntington Ck nr Huntington (2)	APR-JUL	20	30	38	78	47	62	49
Joe's Valley Reservoir Inflow	APR-JUL	24	36	45	78	55	72	58
Ferron Ck (Upper Station) nr Ferron	APR-JUL	16.6	25	31	80	38	50	39
Seven Mile Ck Nr Fish Lake, Ut	APR-JUL	3.30	5.20	6.50	93	7.80	9.70	7.00
Colorado River nr Cisco (2)	APR-JUL	2000	2850	3750	81	4650	5700	4650
Mill Creek at Sheley Tunnel nr Moab	APR-JUL	2.30	3.70	5.00	100	6.50	9.30	5.00
Muddy Creek nr Emery	APR-JUL	6.3	10.8	14.5	73	18.8	26	19.9
Pine Creek Nr Escalante	APR-JUL	0.78	1.59	2.30	96	3.10	4.60	2.40
South Ck ab Lloyd's Res nr Monticell	MAR-JUL	0.42	0.91	1.40	101	2.00	3.30	1.38
San Juan River near Bluff (2)	APR-JUL	360	770	1050	85	1330	1740	1230

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

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
HUNTINGTON NORTH	4.2	2.3	2.7	2.4
JOE'S VALLEY	61.6	40.0	37.1	41.0
KEN'S LAKE	2.3	0.5	0.8	1.0
MILL SITE	16.7	8.2	8.6	7.5
SCOFIELD	65.8	26.1	16.8	32.7

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co.
Watershed Snowpack Analysis - January 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
PRICE RIVER	3	110	80
SAN RAFAEL RIVER	3	101	67
MUDDY CREEK	1	119	93
FREMONT RIVER	3	112	93
LASAL MOUNTAINS	1	83	113
BLUE MOUNTAINS	1	81	114
WILLOW CREEK	1	90	152
SOUTHEASTERN UTAH	13	101	87

* 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.

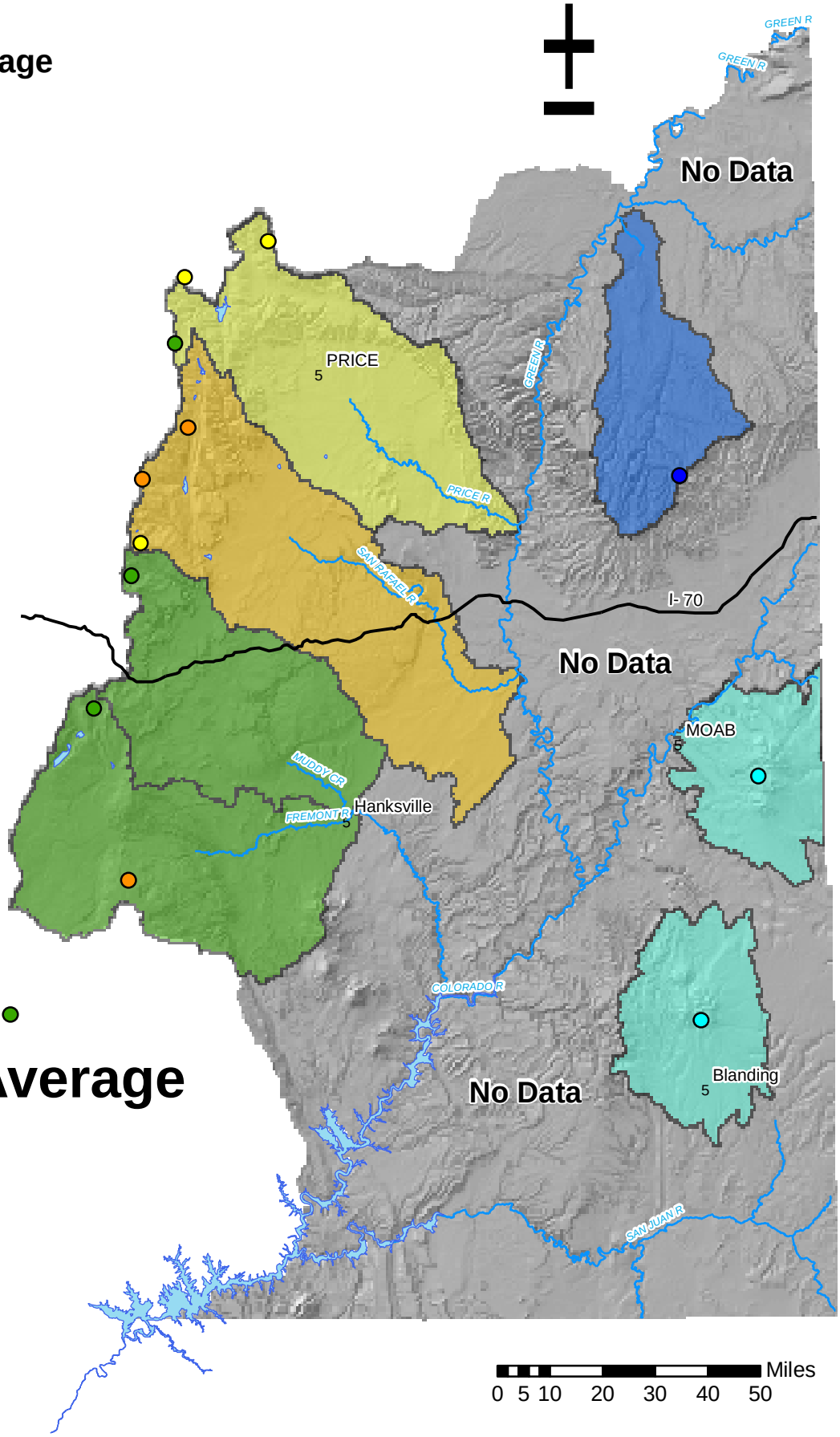
Carbon, Emery, Wayne Grand & San Juan Basins

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%



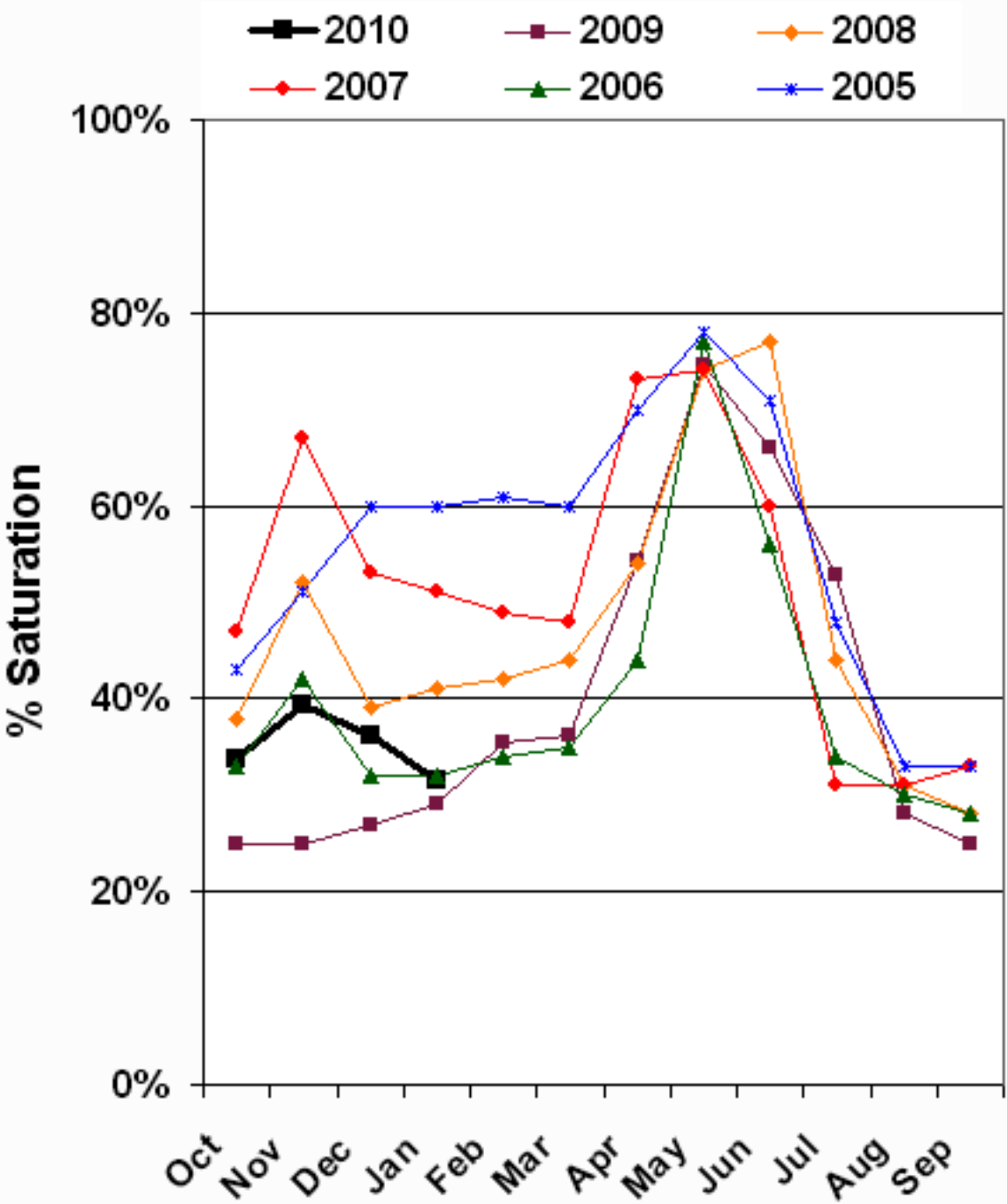
Basinwide Average

87 %

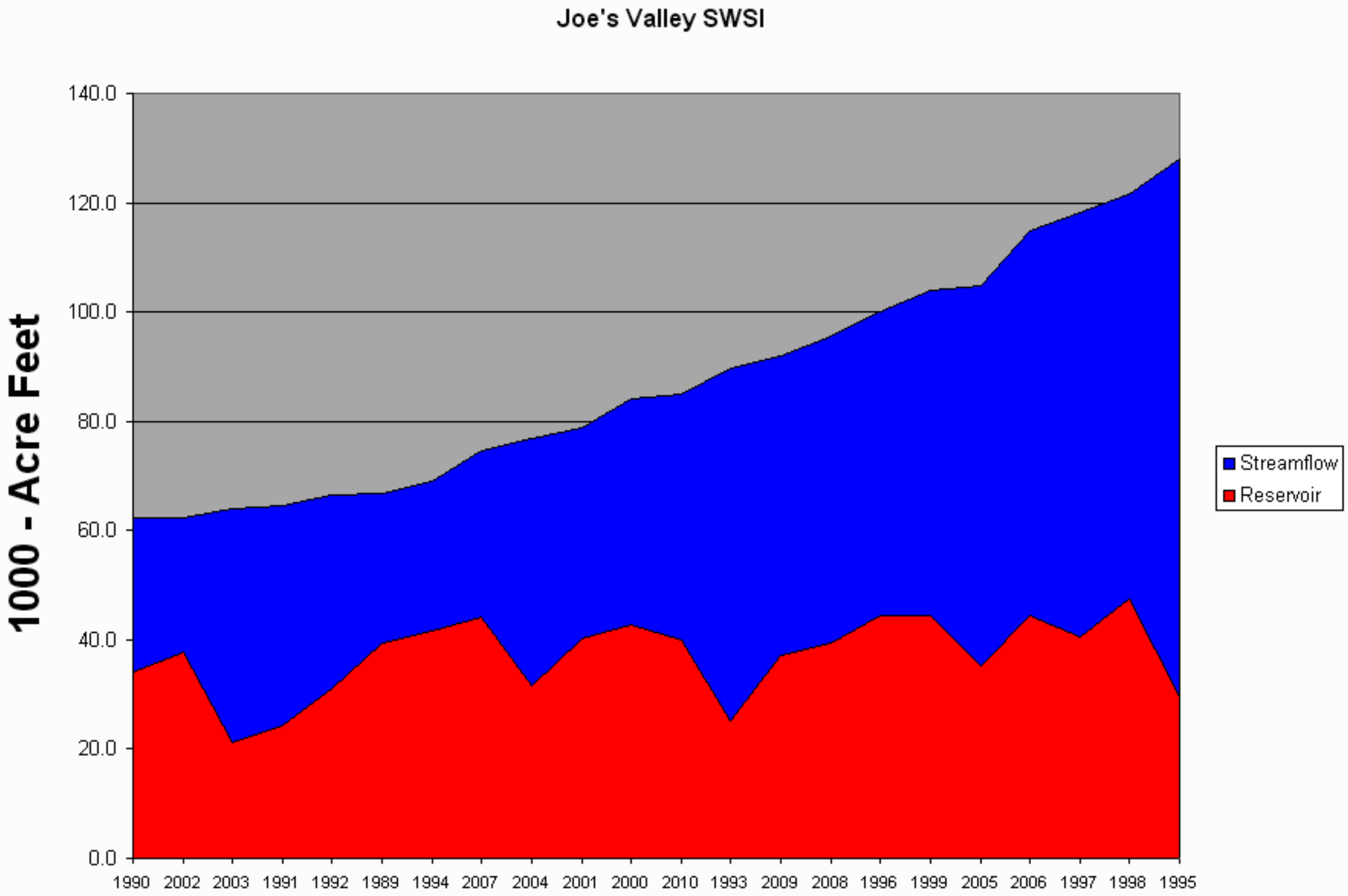
Provisional Data
Subject to Revision

Miles
0 5 10 20 30 40 50

Southeast Utah Soil Moisture



		Joe's	**Valley**	**SWSI**		
			January			
		EOM December Joe's Valley Storage	**April-July Forecast Streamflow - Joe's Valley Inflow**	**Reservoir + Streamflow**		
#	**Year**	**1000-AF**	**1000-AF**	**1000-AF**	**Probability**	**SWSI**
1	1990	34.0	28.2	62.2	4	-3.80
2	2002	37.6	24.6	62.2	9	-3.44
3	2003	21.1	42.8	63.9	13	-3.08
4	1991	24.3	40.2	64.5	17	-2.72
5	1992	31.0	35.6	66.6	22	-2.36
6	1989	39.4	27.2	66.7	26	-1.99
7	1994	41.5	27.6	69.1	30	-1.63
8	2007	44.1	30.4	74.6	35	-1.27
9	2004	31.6	45.1	76.7	39	-0.91
10	2001	40.1	38.7	78.9	43	-0.54
11	2000	42.6	41.5	84.1	48	-0.18
12	**2010**	**40.0**	**45.0**	**85.0**	**52**	**0.18**
13	1993	25.3	64.5	89.7	57	0.54
14	2009	37.1	54.9	92.0	61	0.91
15	2008	39.4	56.1	95.5	65	1.27
16	1996	44.5	55.4	100.0	70	1.63
17	1999	44.4	59.6	104.0	74	1.99
18	2005	35.3	69.3	104.7	78	2.36
19	2006	44.3	70.5	114.8	83	2.72
20	1997	40.6	77.7	118.3	87	3.08
21	1998	47.6	73.8	121.4	91	3.44
22	1995	29.7	98.3	128.0	96	3.80


Joe's Valley SWSI
1000 - Acre Feet
140.0
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100.0
80.0
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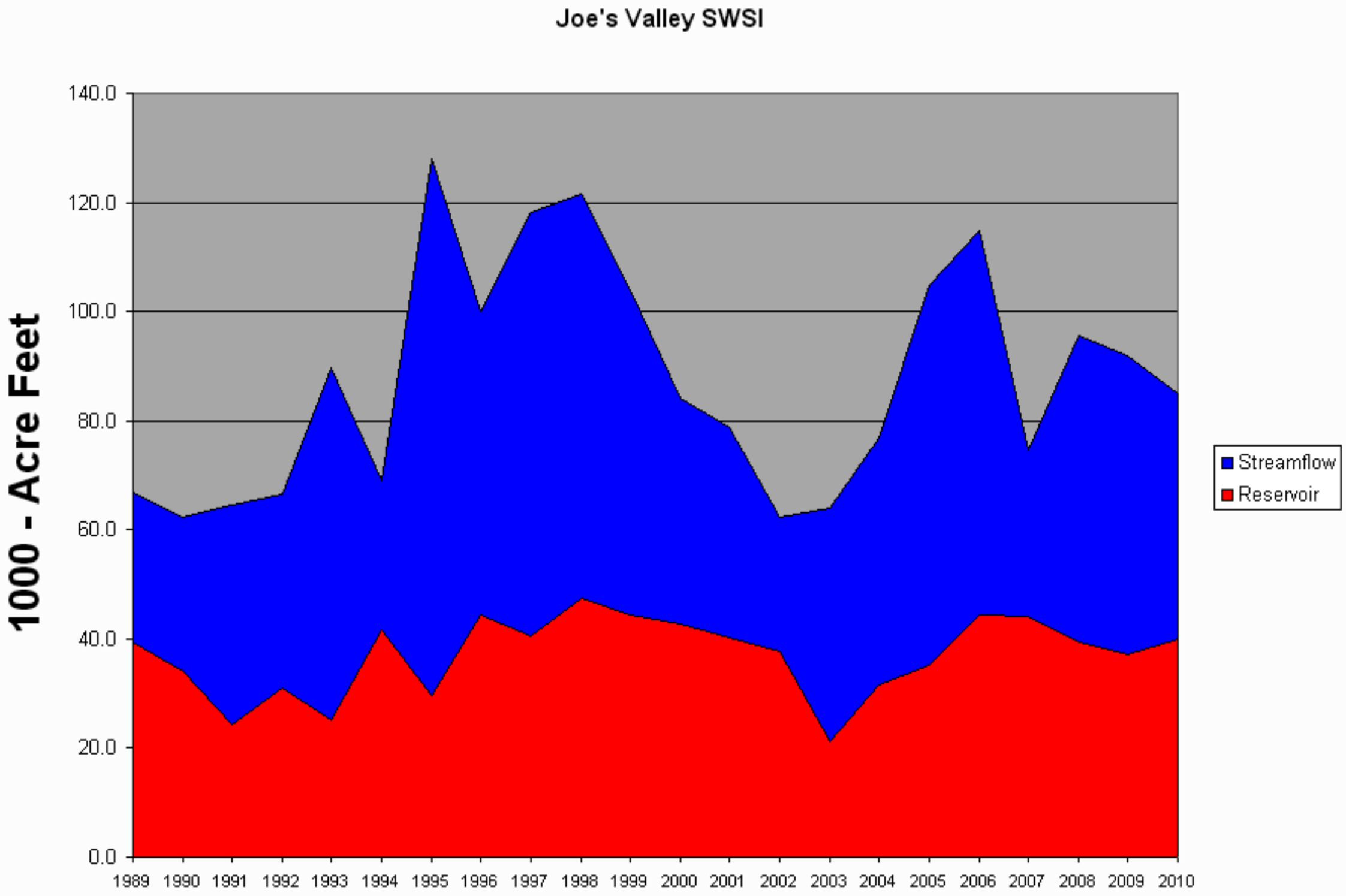
Streamflow
Reservoir


Joe's Valley SWSI
1000 - Acre Feet
140.0
120.0
100.0
80.0
60.0
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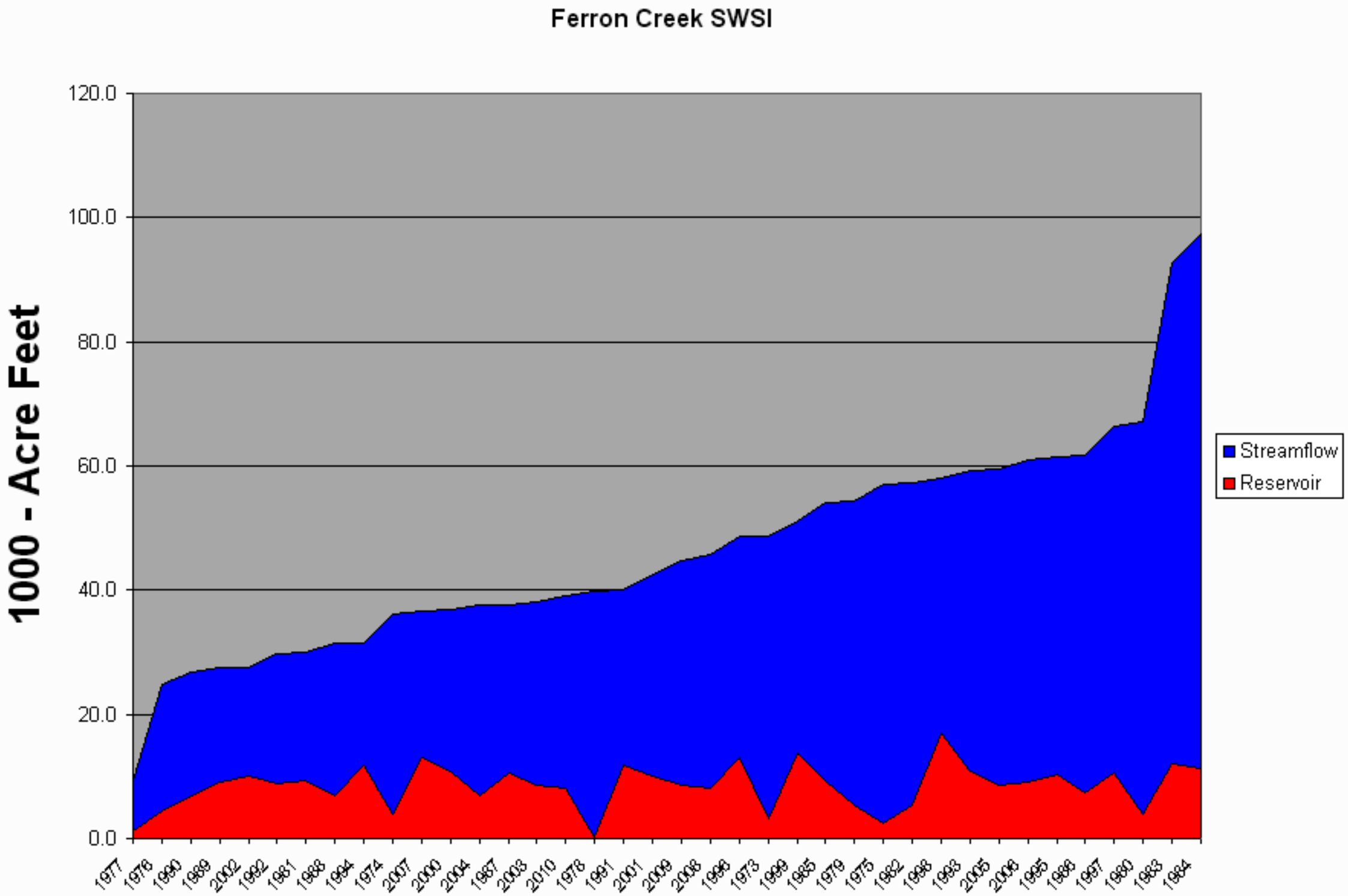
2009
2010
Streamflow
Reservoir

Ferron Creek SWSI

January

#	Year	EOM December Millsite Reservoir Storage	April-July Forecast Streamflow - Ferron Creek Upper	Reservoir + Streamflow 1000AF	Probability	SWSI
1	1977	1.3	8.0	9.3	3	-3.95
2	1976	4.5	20.4	24.9	5	-3.74
3	1990	6.9	19.9	26.8	8	-3.53
4	1989	9.2	18.3	27.5	10	-3.31
5	2002	10.2	17.4	27.6	13	-3.10
6	1992	8.9	20.9	29.8	15	-2.88
7	1981	9.3	20.6	29.9	18	-2.67
8	1988	6.8	24.7	31.5	21	-2.46
9	1994	11.7	19.9	31.6	23	-2.24
10	1974	4.0	32.1	36.1	26	-2.03
11	2007	13.0	23.7	36.7	28	-1.82
12	2000	10.9	26.1	37.0	31	-1.60
13	2004	6.9	30.6	37.5	33	-1.39
14	1987	10.6	27.1	37.7	36	-1.18
15	2003	8.5	29.7	38.2	38	-0.96
16	**2010**	**8.2**	**31**	**39.2**	**41**	**-0.75**
17	1978	0.3	39.5	39.8	44	-0.53
18	1991	11.8	28.3	40.1	46	-0.32
19	2001	10.1	32.5	42.6	49	-0.11
20	2009	8.6	36.1	44.7	51	0.11
21	2008	8.1	37.7	45.8	54	0.32
22	1996	13.0	35.6	48.6	56	0.53
23	1973	3.1	45.6	48.7	59	0.75
24	1999	13.8	37.3	51.1	62	0.96
25	1985	9.3	44.7	54.0	64	1.18
26	1979	5.3	49.1	54.4	67	1.39
27	1975	2.5	54.5	57.0	69	1.60
28	1982	5.3	52.0	57.3	72	1.82
29	1998	16.9	41.2	58.1	74	2.03
30	1993	10.9	48.3	59.2	77	2.24
31	2005	8.5	51.1	59.6	79	2.46
32	2006	9.2	51.9	61.1	82	2.67
33	1995	10.3	51.2	61.5	85	2.88
34	1986	7.3	54.5	61.8	87	3.10
35	1997	10.5	55.9	66.4	90	3.31
36	1980	4.0	63.2	67.2	92	3.53
37	1983	12.0	80.7	92.7	95	3.74
38	1984	11.2	86.3	97.5	97	3.95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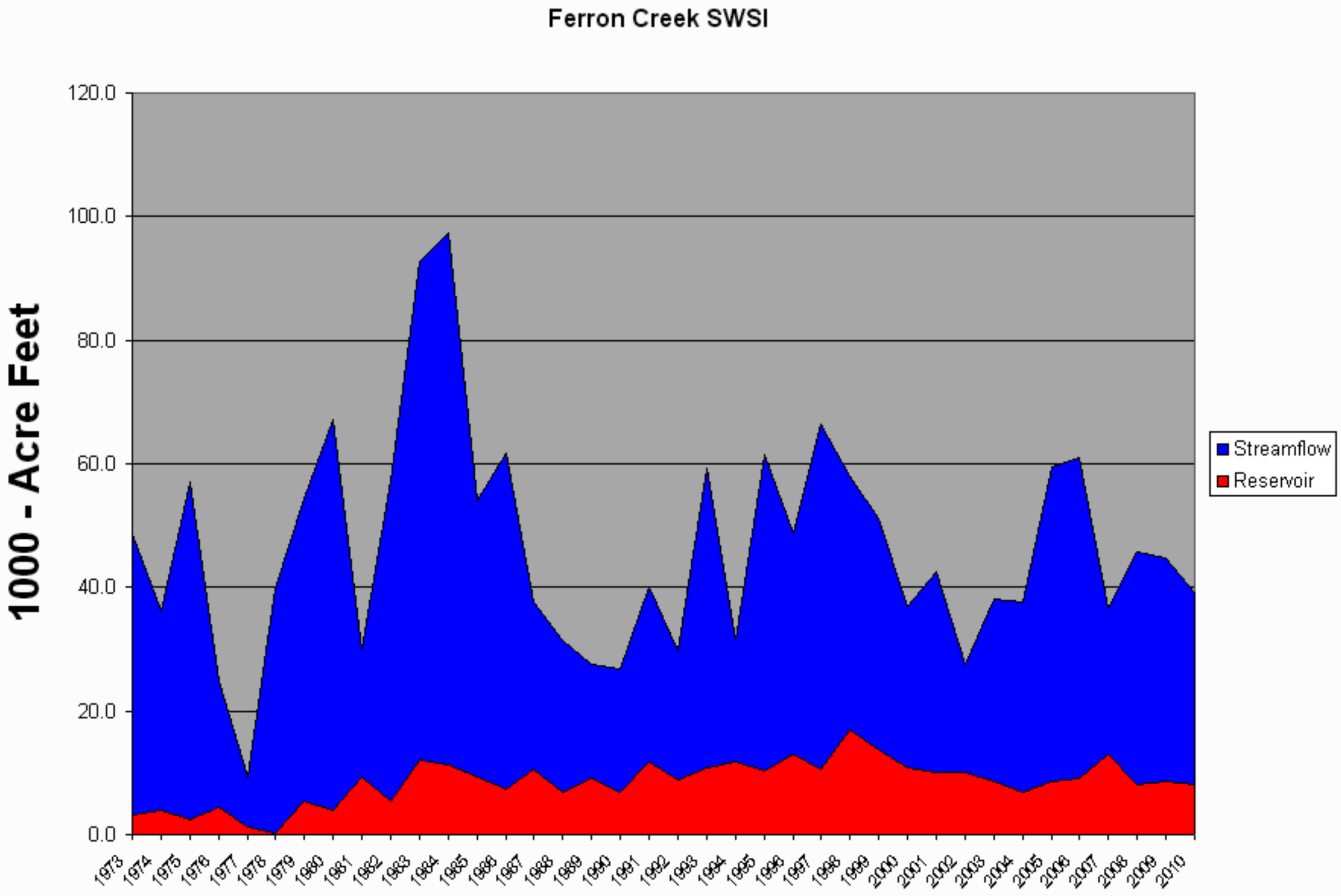
Streamflow
Reservoir


Ferron Creek SWSI
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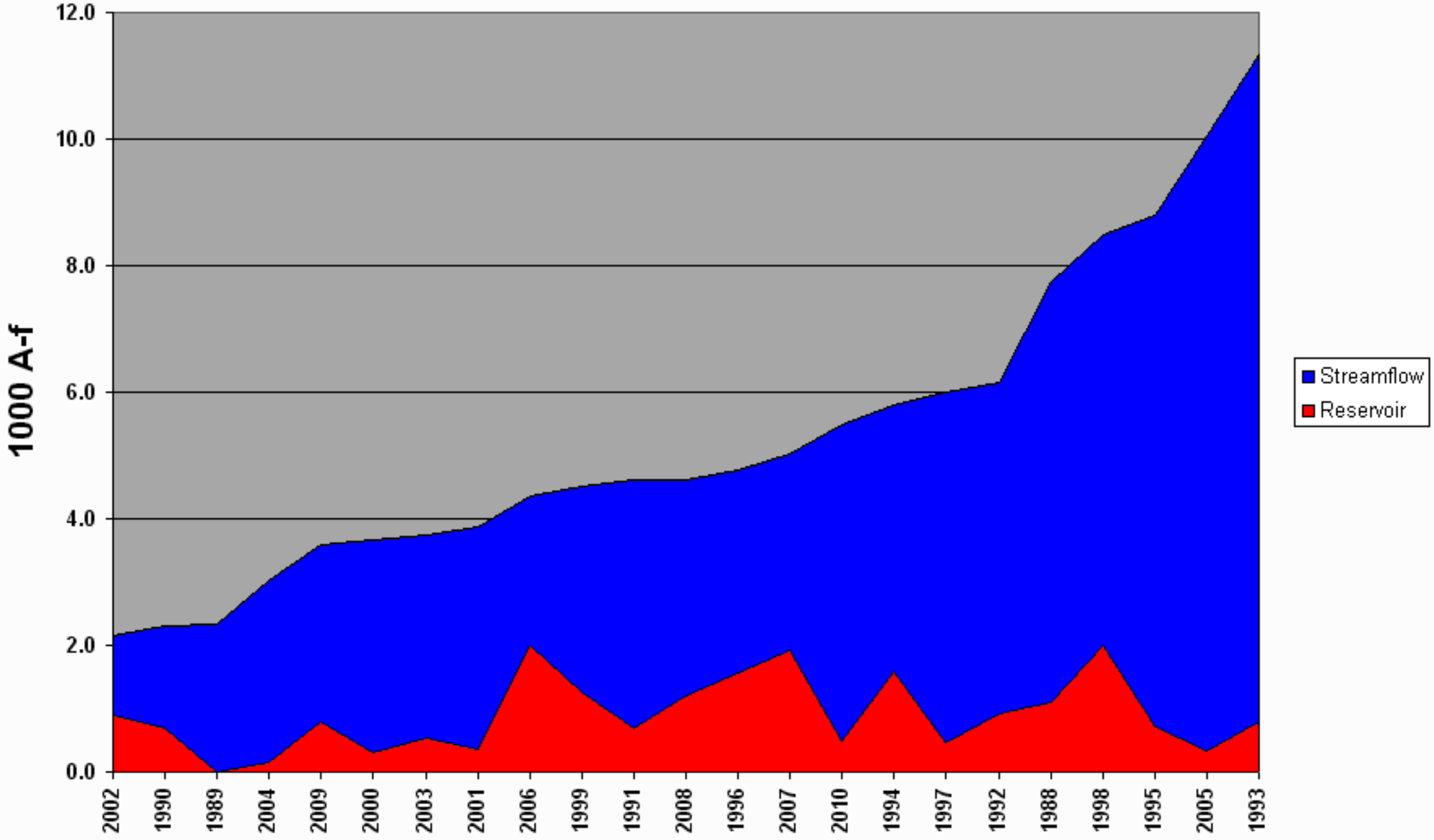
Streamflow
Reservoir

		Moab SWSI				
			January			
#	**Year**	**EOM December Ken's Lake Reservoir Storage**	**April-July Forecast Streamflow - Mill Creek @ Sheley**	**Reservoir + Streamflow 1000AF**	**Probability**	**SWSI**
1	2002	0.9	1.2	2.2	4	-3.82
2	1990	0.7	1.6	2.3	8	-3.47
3	1989	0.0	2.3	2.3	13	-3.13
4	2004	0.2	2.9	3.0	17	-2.78
5	2009	0.8	2.8	3.6	21	-2.43
6	2000	0.3	3.4	3.7	25	-2.08
7	2003	0.5	3.2	3.7	29	-1.74
8	2001	0.4	3.5	3.9	33	-1.39
9	2006	2.0	2.4	4.4	38	-1.04
10	1999	1.2	3.3	4.5	42	-0.69
11	1991	0.7	3.9	4.6	46	-0.35
12	2008	1.2	3.4	4.6	50	0.00
13	1996	1.6	3.2	4.8	54	0.35
14	2007	1.9	3.1	5.0	58	0.69
15	**2010**	**0.5**	**5.0**	**5.5**	**63**	**1.04**
16	1994	1.6	4.2	5.8	67	1.39
17	1997	0.5	5.5	6.0	71	1.74
18	1992	0.9	5.2	6.2	75	2.08
19	1988	1.1	6.6	7.8	79	2.43
20	1998	2.0	6.5	8.5	83	2.78
21	1995	0.7	8.1	8.8	88	3.13
22	2005	0.3	9.7	10.0	92	3.47
23	1993	0.8	10.5	11.3	96	3.82

Moab SWSI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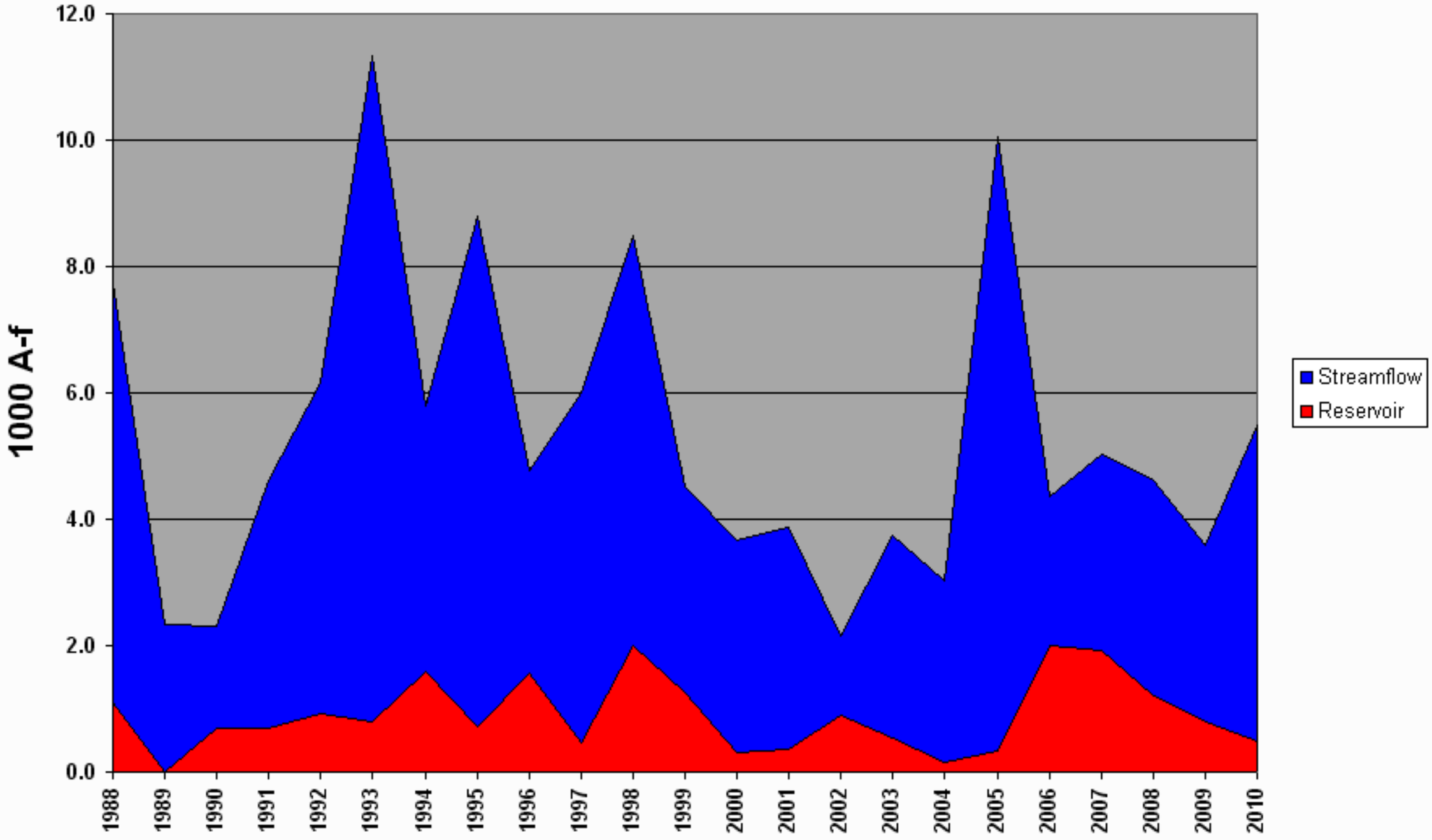
Streamflow
Reservoir

Moab SWSI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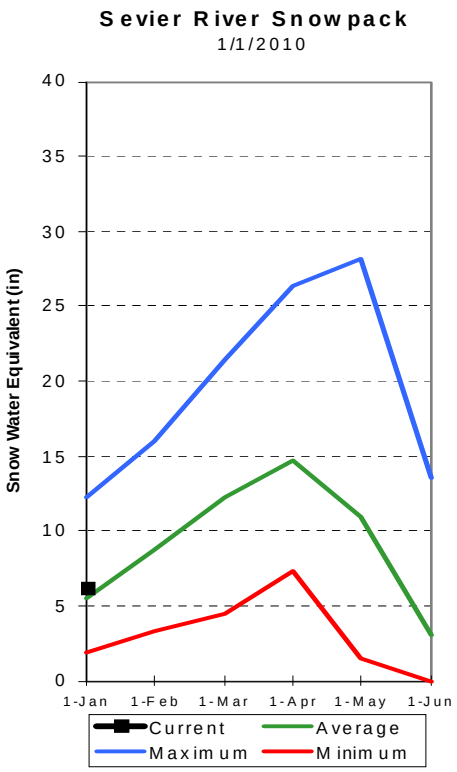
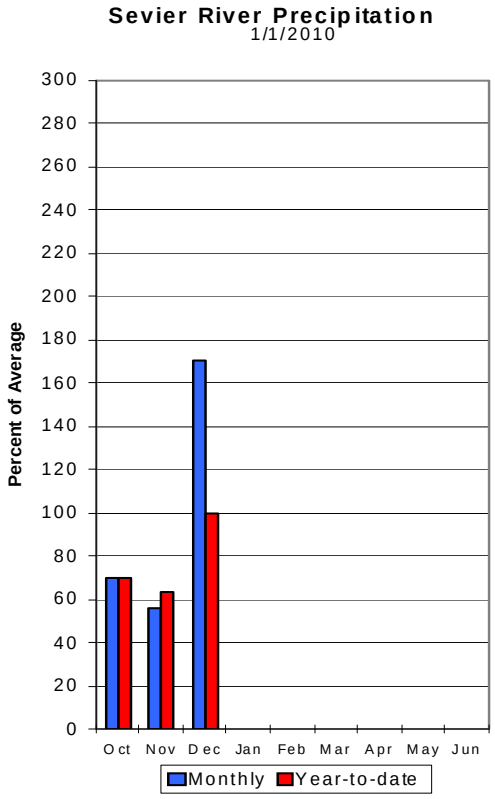
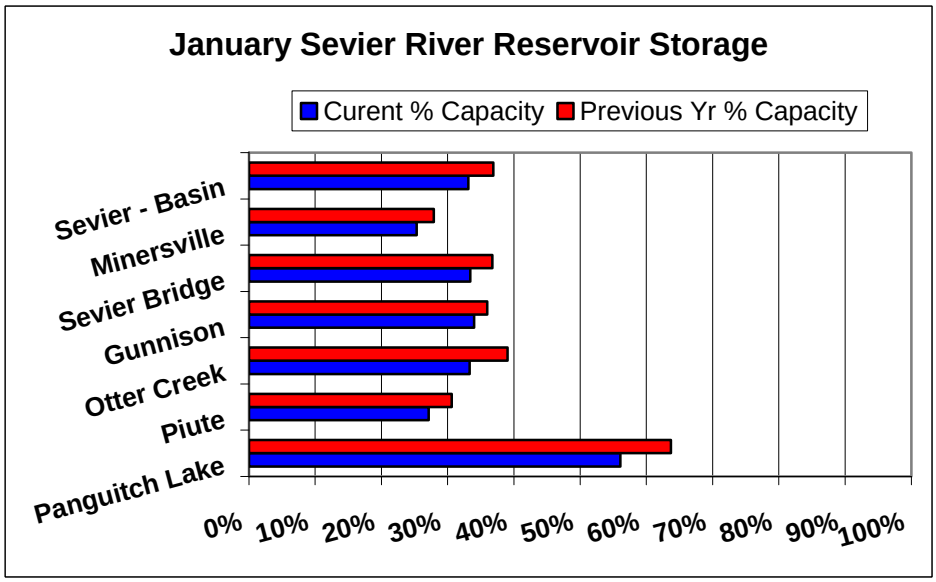
Sevier and Beaver River Basins
January 1, 2010

Snowpacks on the Sevier River Basin are slightly above normal at 113% of average, compared to 102% last year. Individual sites range from 81% at Pine Creek to 289% of average at Long Valley Junction. Precipitation during December was much above average at 170% of normal, bringing the seasonal accumulation (Oct-Dec) to 100% of average. Soil moisture estimates in runoff producing areas are at 26% of saturation in the upper 2 feet of soil compared to 35% last year. Streamflow forecasts range from 80% to 109% of average. Reservoir storage is at 33% of capacity, 4% less than last year. Surface Water Supply Indices are: Upper Sevier 27%, Lower Sevier 46% and Beaver 48%. Water supply conditions are below average on the upper Sevier due to low reservoir storage and near average on the lower Sevier and the Beaver River watersheds.







SEVIER & BEAVER RIVER BASINS as of January 1, 2010

SEVIER & BEAVER RIVER BASINS
Streamflow Forecasts - January 1, 2010

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)
Mammoth Ck nr Hatch, Ut	APR-JUL	2.0	21	28	11	35	44	26
Sevier at Hatch	APR-JUL	20.9	41.2	55	100	68.8	89.1	55
Sevier R nr Kingston, UT	APR-JUL	2.3	18.7	34	103	43	62	33
EF Sevier R nr Kingston, UT	APR-JUL	7.0	22	33	87	44	52	35
Sevier R blw Piute Dam	APR-JUL	5.0	40	65	52	77	102	91
Clear Ck abv Diversions nr Sevier	APR-JUL	8.5	16.0	21	96	26	33	22
Salina Creek Nr Emery	APR-JUL	2.70	6.00	8.20	91	10.40	13.70	9.01
Salina Ck at Salina	APR-JUL	5.9	12.3	18.0	91	25	37	19.7
Manti Ck Blw Dugway Ck Nr Manti	APR-JUL	8.1	11.7	14.5	79	17.6	23	18.3
Sevier R nr Gunnison, UT	APR-JUL	5.0	35	85	80	128	196	106
Chicken Creek nr Levan	APR-JUL	1.28	2.60	4.00	89	5.70	9.10	4.50
Oak Creek nr Oak City	APR-JUL	0.76	1.17	1.50	90	1.87	2.50	1.66
Beaver River nr Beaver	APR-JUL	16.1	22	26	96	31	39	27
Minersville Resv Inflow	APR-JUL	3.4	9.0	15.0	90	23	40	16.6

SEVIER & BEAVER RIVER BASINS
Reservoir Storage (1000 AF) - End of December

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
GUNNISON	20.3	6.9	7.3	10.9
MINERSVILLE (RkyFd)	23.3	5.9	6.5	12.7
OTTER CREEK	52.5	17.5	20.5	32.8
PIUTE	71.8	19.5	22.0	42.1
SEVIER BRIDGE	236.0	78.8	86.7	148.9
PANGUITCH LAKE	22.3	12.5	14.2	10.8

SEVIER & BEAVER RIVER BASINS
Watershed Snowpack Analysis - January 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
UPPER SEVIER RIVER	8	86	129
EAST FORK SEVIER RIVER	3	84	116
SOUTH FORK SEVIER RIVER	5	88	135
LOWER SEVIER RIVER	6	128	96
BEAVER RIVER	2	115	116
SEVIER & BEAVER RIVER BAS	16	101	113

* 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.

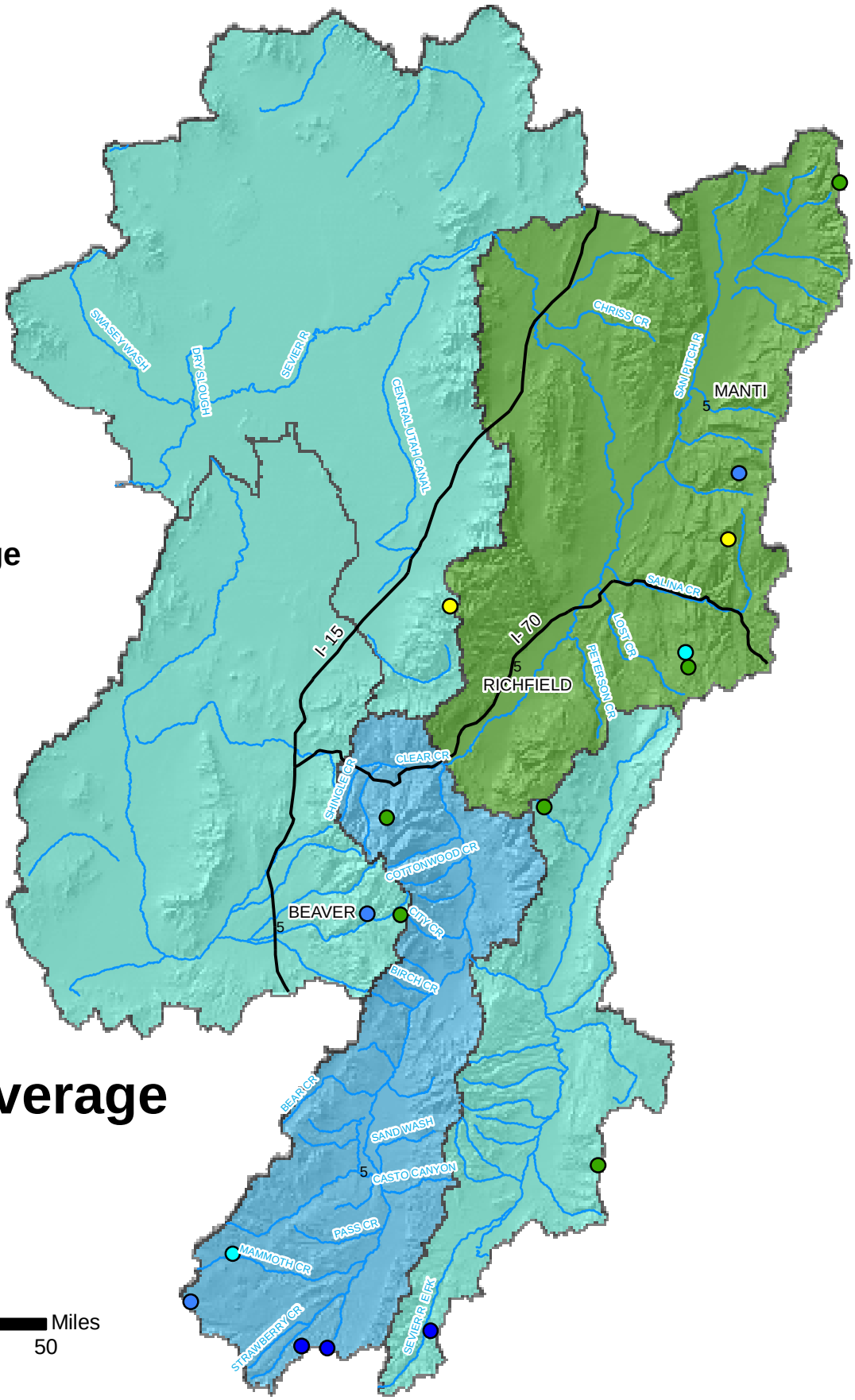
Sevier & Beaver Basins

Snotel % of Average

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

Watershed % of Average

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



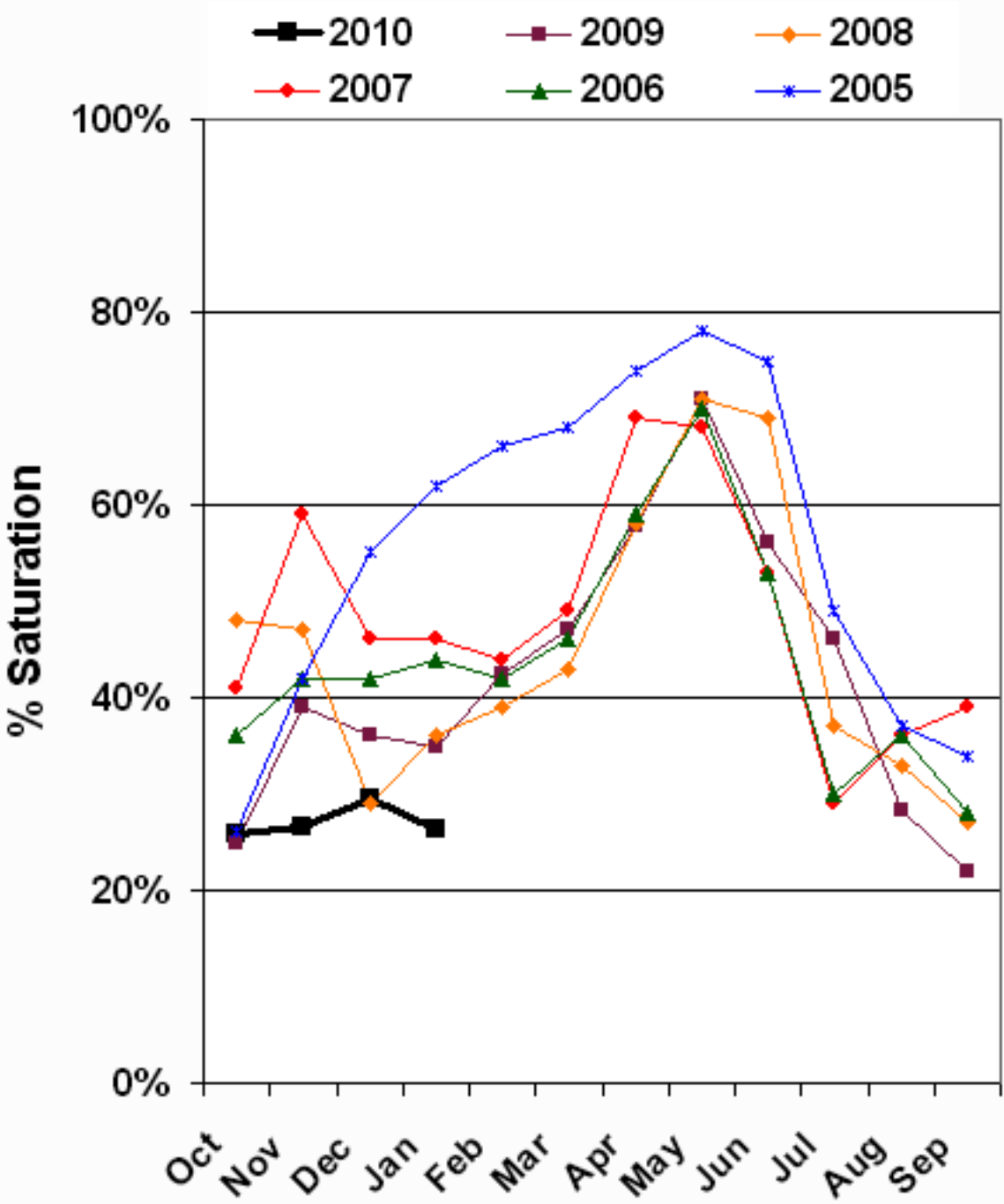
Basinwide Average 113%

Miles

0 5 10 20 30 40 50

Provisional Data Subject to Revision

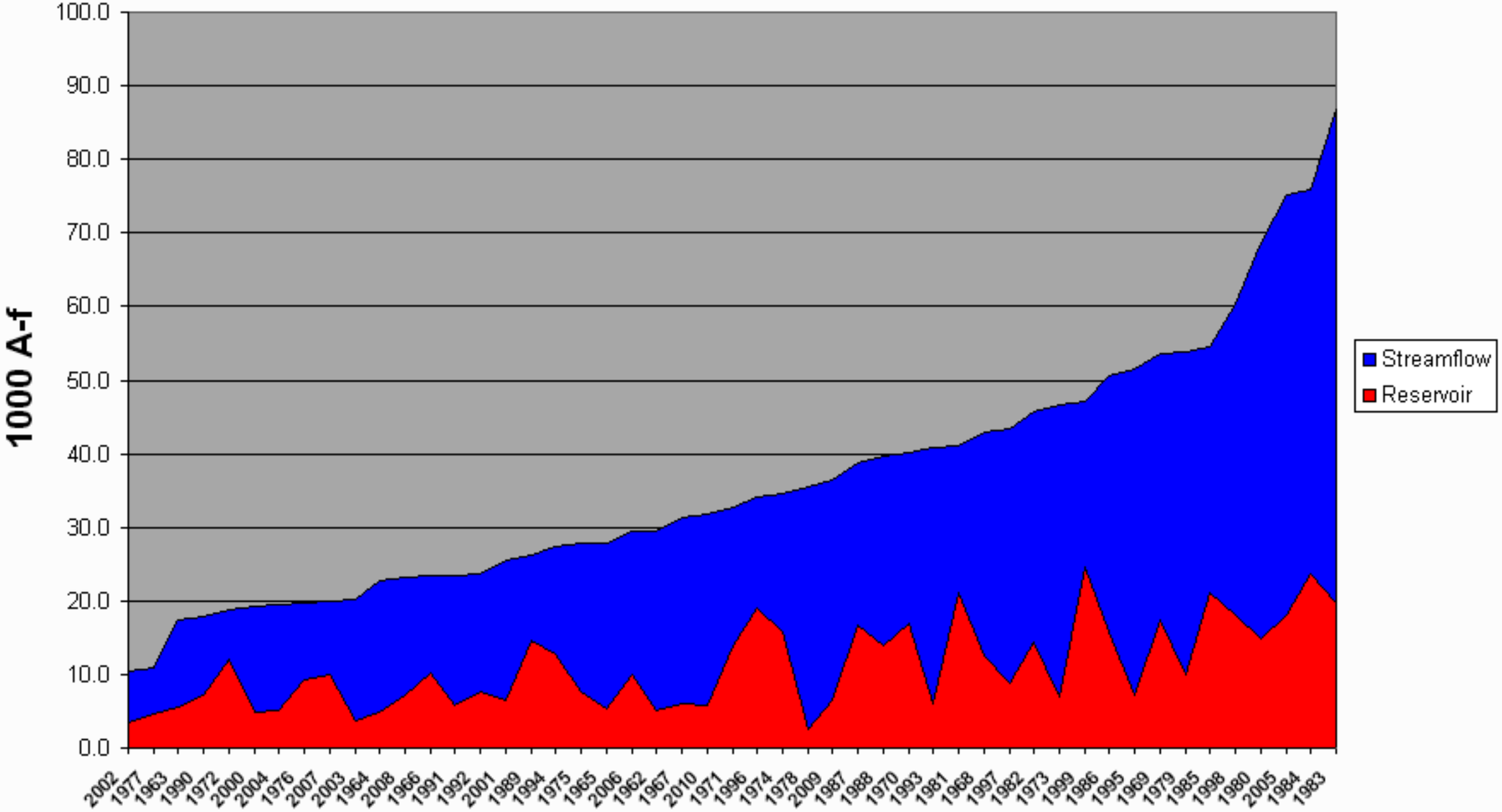
Sevier/Beaver River Soil Moisture



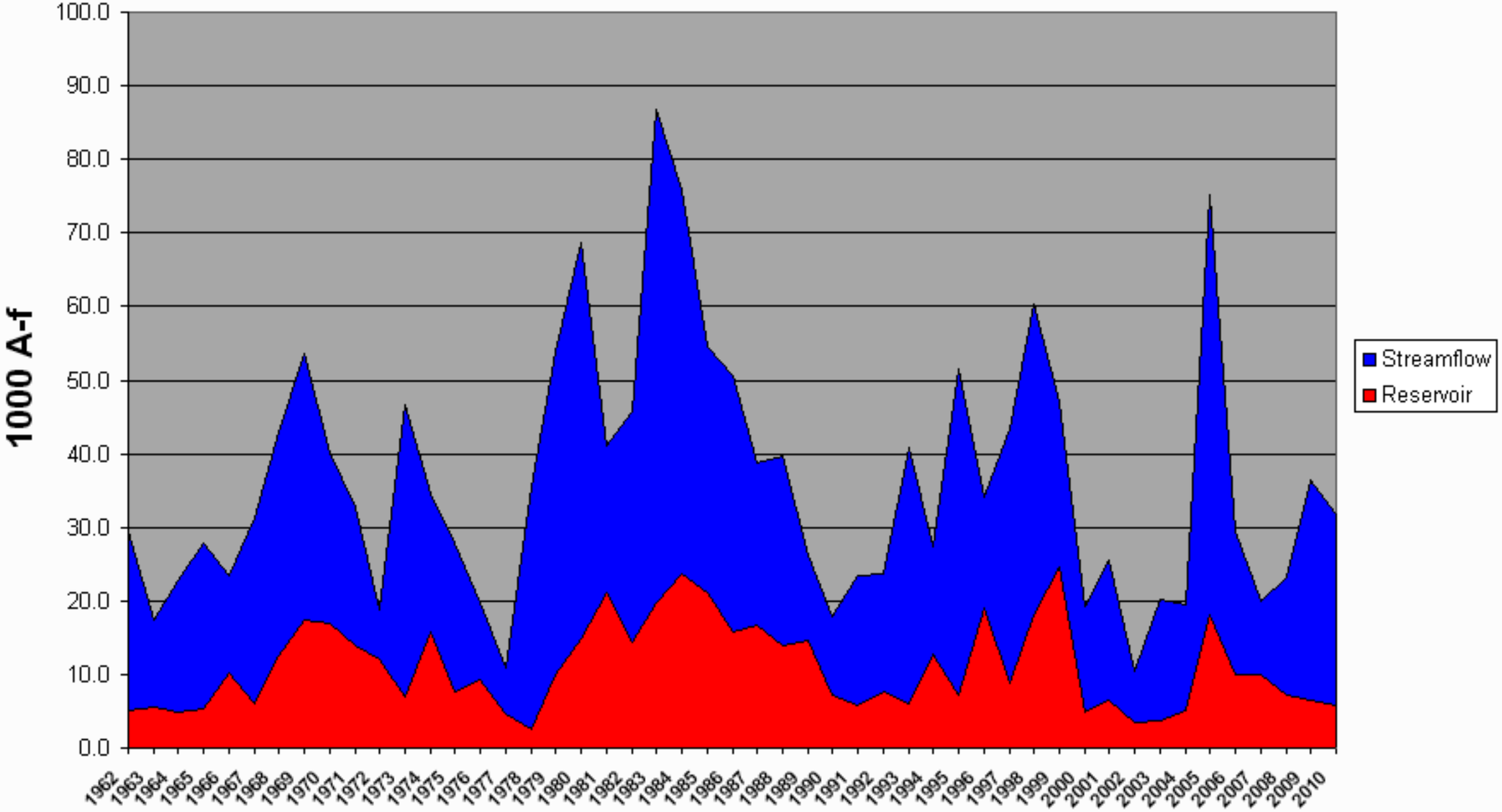
		Beaver	**River**	**SWSI**		
			January			
		EOM December Minerville Reservoir Storage	**April-July Forecast Streamflow - Beaver at Beaver**	**Reservoir + Streamflow**		
#	**Year**	**1000-AF**	**1000-AF**	**1000-AF**	**Probability**	**SWSI**
1	2002	3.5	7.0	10.5	2	-4.00
2	1977	4.7	6.1	10.8	4	-3.83
3	1963	5.6	11.9	17.5	6	-3.67
4	1990	7.2	10.6	17.8	8	-3.50
5	1972	12.0	6.7	18.7	10	-3.33
6	2000	4.8	14.5	19.4	12	-3.17
7	2004	5.0	14.5	19.5	14	-3.00
8	1976	9.3	10.5	19.8	16	-2.83
9	2007	9.9	10.1	20.0	18	-2.67
10	2003	3.6	16.7	20.3	20	-2.50
11	1964	4.9	17.9	22.8	22	-2.33
12	2008	7.3	15.8	23.1	24	-2.17
13	1966	10.2	13.2	23.4	26	-2.00
14	1991	5.8	17.7	23.5	28	-1.83
15	1992	7.6	16.1	23.6	30	-1.67
16	2001	6.4	19.1	25.5	32	-1.50
17	1989	14.7	11.6	26.3	34	-1.33
18	1994	12.8	14.7	27.4	36	-1.17
19	1975	7.7	20.1	27.8	38	-1.00
20	1965	5.4	22.5	27.9	40	-0.83
21	2006	9.9	19.6	29.5	42	-0.67
22	1962	5.1	24.5	29.6	44	-0.50
23	1967	6.1	25.2	31.3	46	-0.33
24	**2010**	**5.9**	**26**	**31.9**	**48**	**-0.17**
25	1971	13.9	18.7	32.6	50	0.00
26	1996	19.0	15.2	34.2	52	0.17
27	1974	15.8	18.8	34.6	54	0.33
28	1978	2.6	32.8	35.4	56	0.50
29	2009	6.5	30.0	36.5	58	0.67
30	1987	16.8	21.8	38.6	60	0.83
31	1988	14.0	25.6	39.6	62	1.00
32	1970	16.9	23.2	40.1	64	1.17
33	1993	6.1	34.9	40.9	66	1.33
34	1981	21.1	20.0	41.1	68	1.50
35	1968	12.5	30.3	42.8	70	1.67
36	1997	8.9	34.6	43.4	72	1.83
37	1982	14.3	31.5	45.8	74	2.00
38	1973	7.0	39.7	46.7	76	2.17
39	1999	24.5	22.6	47.1	78	2.33
40	1986	15.7	34.8	50.5	80	2.50
41	1995	7.2	44.4	51.5	82	2.67

42	1969	17.3	36.3	53.6	84	2.83
43	1979	10.0	43.8	53.8	86	3.00
44	1985	21.1	33.3	54.4	88	3.17
45	1998	18.2	42.2	60.4	90	3.33
46	1980	14.8	53.9	68.7	92	3.50
47	2005	18.2	57.1	75.3	94	3.67
48	1984	23.6	52.3	75.9	96	3.83
49	1983	19.7	67.2	86.9	98	4.00

Beaver River Surface Water Supply Index
January



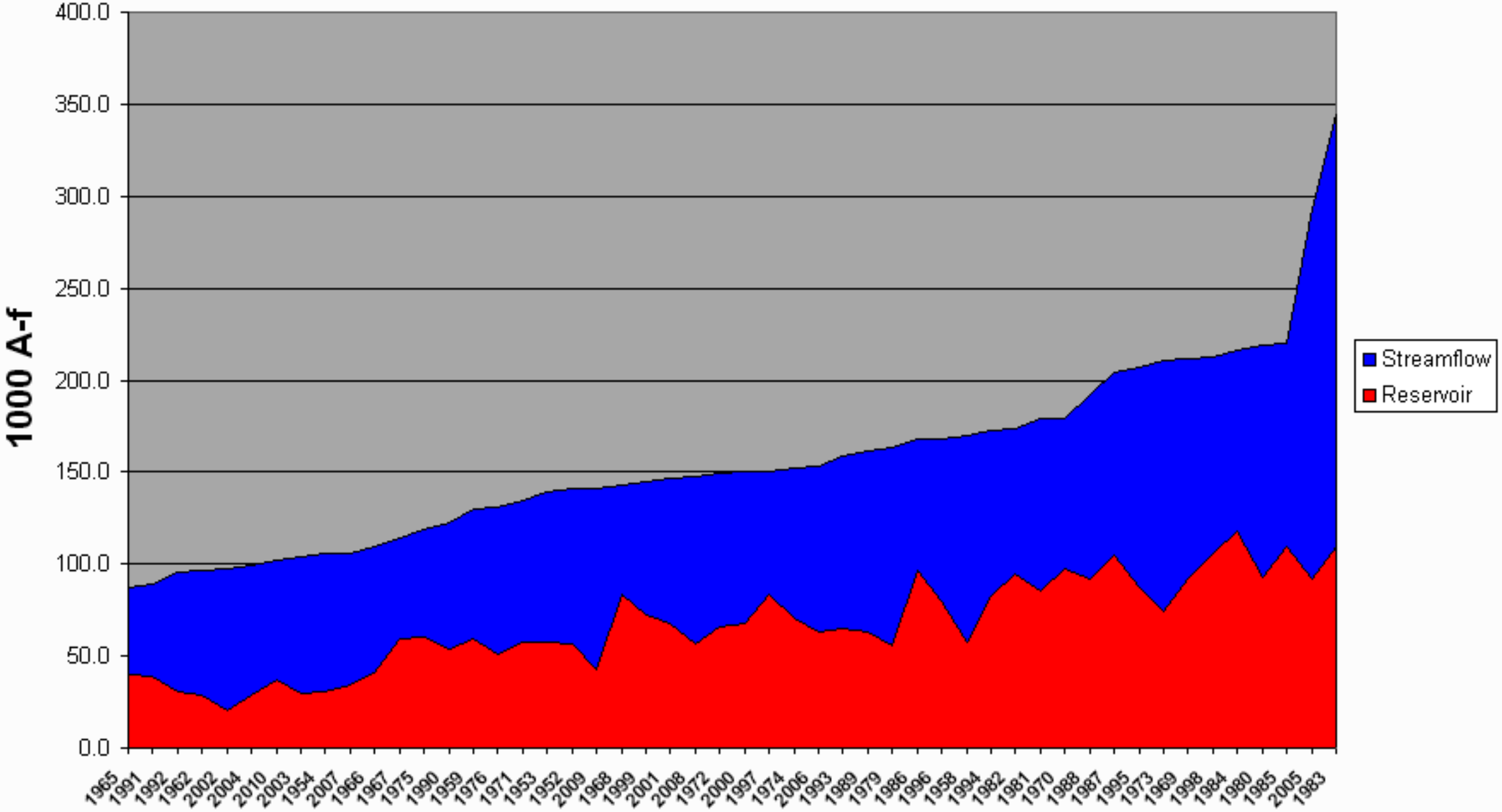
Beaver River Surface Water Supply Index
January



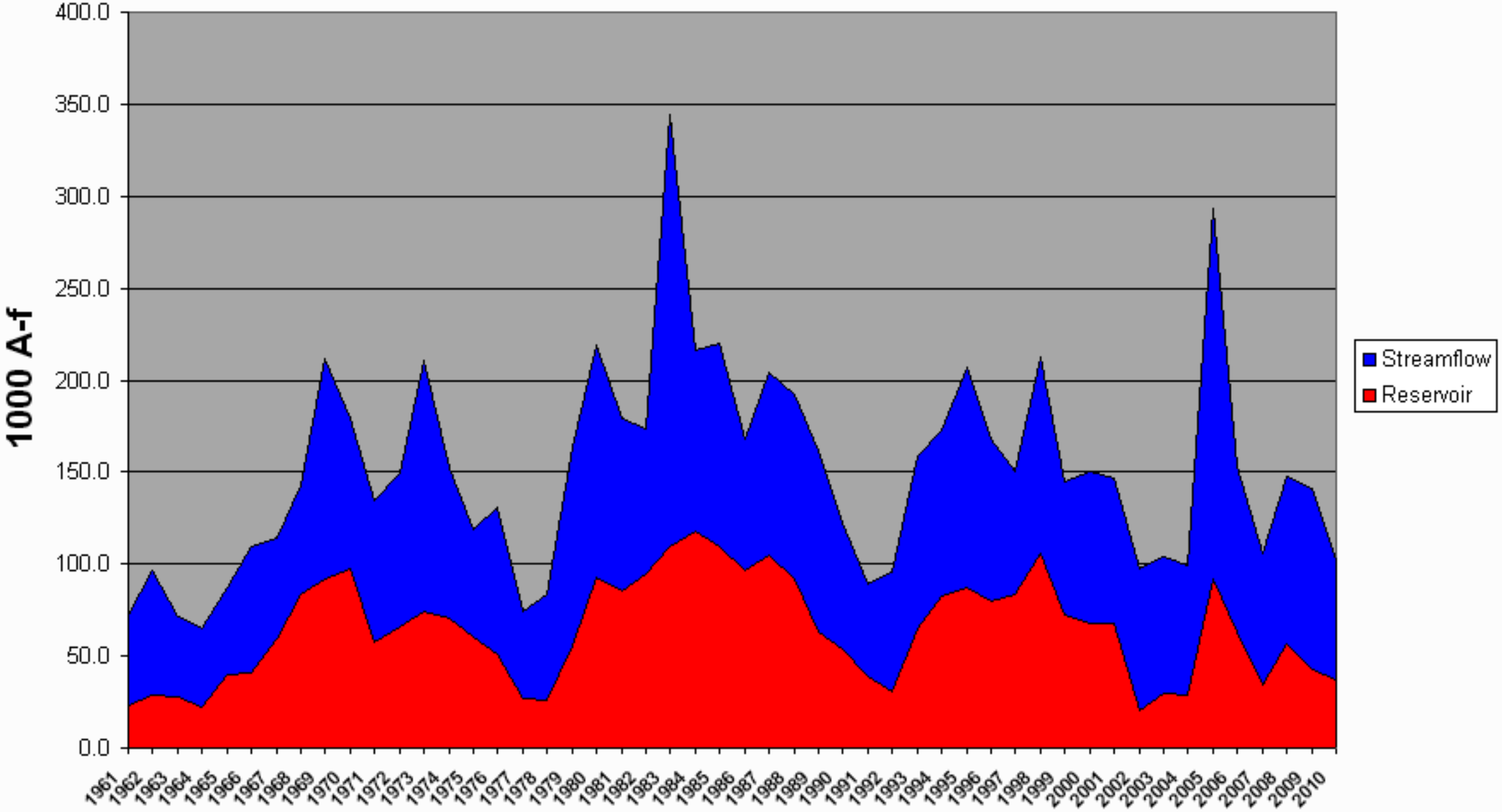
	Upper	Sevier	River	SWSI		
			January			
		EOM December Piute+Otter Creek Reservoir Storage	April-July Forecast Streamflow - Sevier inflow Piute	Reservoir + Streamflow		
#	Year	1000-AF	1000-AF	1000-AF	Probability	SWSI
1	1957	27.6	25.8	53.4	2	-4.03
2	1956	20.5	44.5	65.0	3	-3.89
3	1964	22.5	42.9	65.4	5	-3.75
4	1963	27.4	44.5	71.9	7	-3.61
5	1961	23.5	49.1	72.6	8	-3.47
6	1977	26.9	47.0	73.9	10	-3.33
7	1960	23.9	52.5	76.4	12	-3.19
8	1978	26.4	56.9	83.3	13	-3.06
9	1955	25.0	58.5	83.5	15	-2.92
10	1965	40.2	46.9	87.1	17	-2.78
11	1991	38.6	51.0	89.5	18	-2.64
12	1992	30.7	64.9	95.6	20	-2.50
13	1962	28.9	68.0	96.9	22	-2.36
14	2002	20.7	77.2	97.9	23	-2.22
15	2004	28.7	70.8	99.5	25	-2.08
16	**2010**	**37**	**65**	**102**	**27**	**-1.94**
17	2003	29.6	73.9	103.5	28	-1.81
18	1954	30.7	74.8	105.5	30	-1.67
19	2007	34.3	71.3	105.6	32	-1.53
20	1966	40.7	68.4	109.1	33	-1.39
21	1967	59.4	55.2	114.6	35	-1.25
22	1975	60.3	58.5	118.8	37	-1.11
23	1990	54.1	68.3	122.5	38	-0.97
24	1959	59.5	70.8	130.3	40	-0.83
25	1976	51.3	79.6	130.9	42	-0.69
26	1971	57.6	77.3	134.9	43	-0.56
27	1953	58.0	81.2	139.2	45	-0.42
28	1952	56.3	85.2	141.5	47	-0.28
29	2009	42.5	99	141.5	48	-0.14
30	1968	83.5	59.9	143.4	50	0.00
31	1999	71.9	72.5	144.4	52	0.14
32	2001	67.6	79.5	147.1	53	0.28
33	2008	57.0	91	148.0	55	0.42
34	1972	65.9	83.5	149.4	57	0.56
35	2000	67.7	82.5	150.2	58	0.69
36	1997	83.3	67.4	150.6	60	0.83
37	1974	70.8	81.1	151.9	62	0.97
38	2006	63.2	89.7	152.9	63	1.11
39	1993	65.1	93.6	158.7	65	1.25
40	1989	62.7	98.7	161.4	67	1.39

41	1979	56.0	106.9	162.9	68	1.53
42	1986	96.4	71.5	167.9	70	1.67
43	1996	79.5	88.4	168.0	72	1.81
44	1958	57.3	112.3	169.6	73	1.94
45	1994	83.0	89.9	172.9	75	2.08
46	1982	95.1	78.4	173.5	77	2.22
47	1981	85.7	93.0	178.7	78	2.36
48	1970	97.6	81.2	178.8	80	2.50
49	1988	91.7	100.4	192.1	82	2.64
50	1987	104.7	99.1	203.8	83	2.78
51	1995	87.1	120.0	207.1	85	2.92
52	1973	74.6	136.4	211.0	87	3.06
53	1969	91.9	119.9	211.8	88	3.19
54	1998	105.4	106.8	212.2	90	3.33
55	1984	118.2	98.2	216.4	92	3.47
56	1980	93.2	125.8	219.0	93	3.61
57	1985	109.3	110.2	219.5	95	3.75
58	2005	92.2	200.8	293.0	97	3.89
59	1983	109.5	234.9	344.4	98	4.03

Upper Sevier River Surface Water Supply Index
January



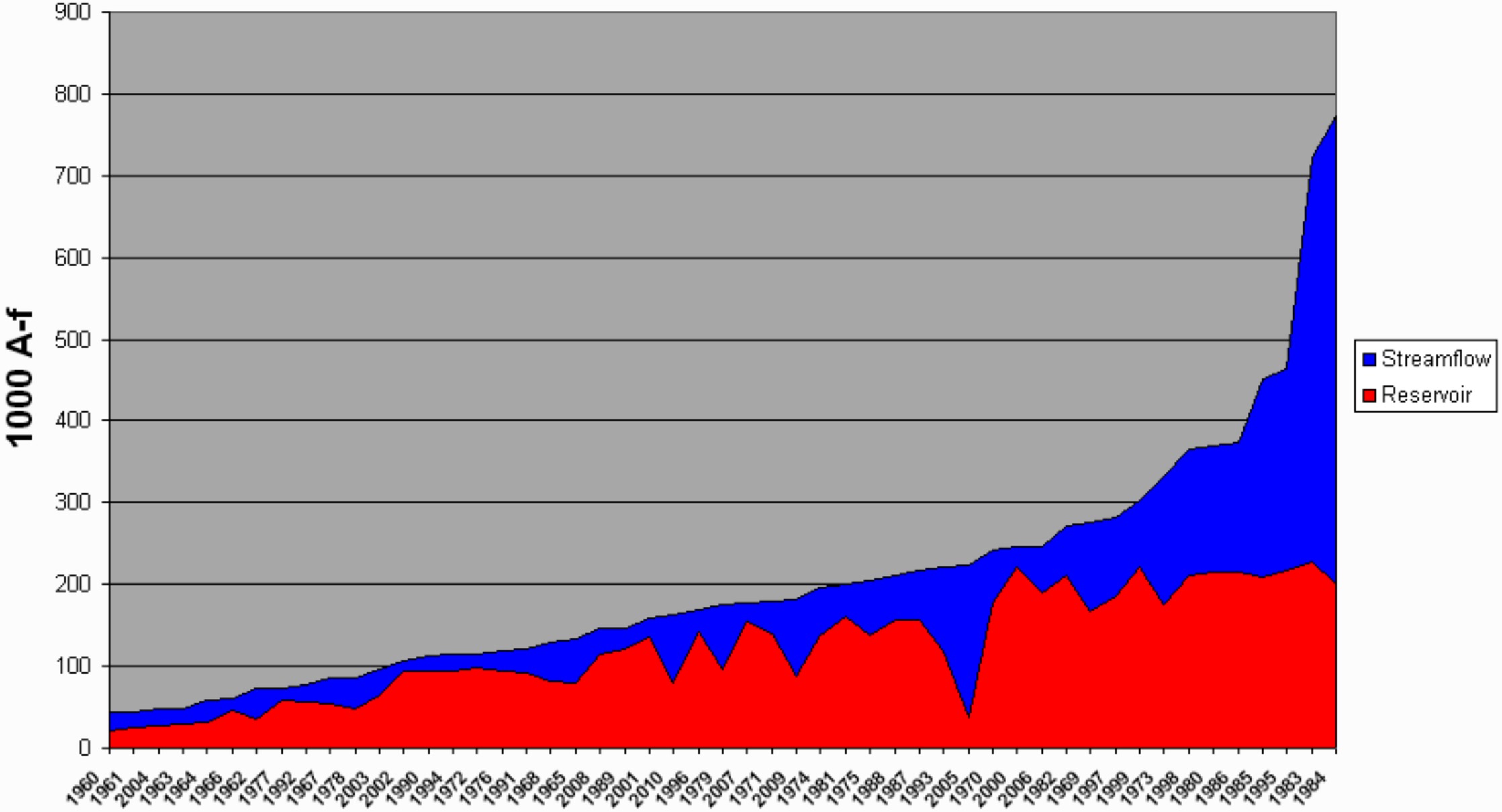
Upper Sevier River Surface Water Supply Index
January



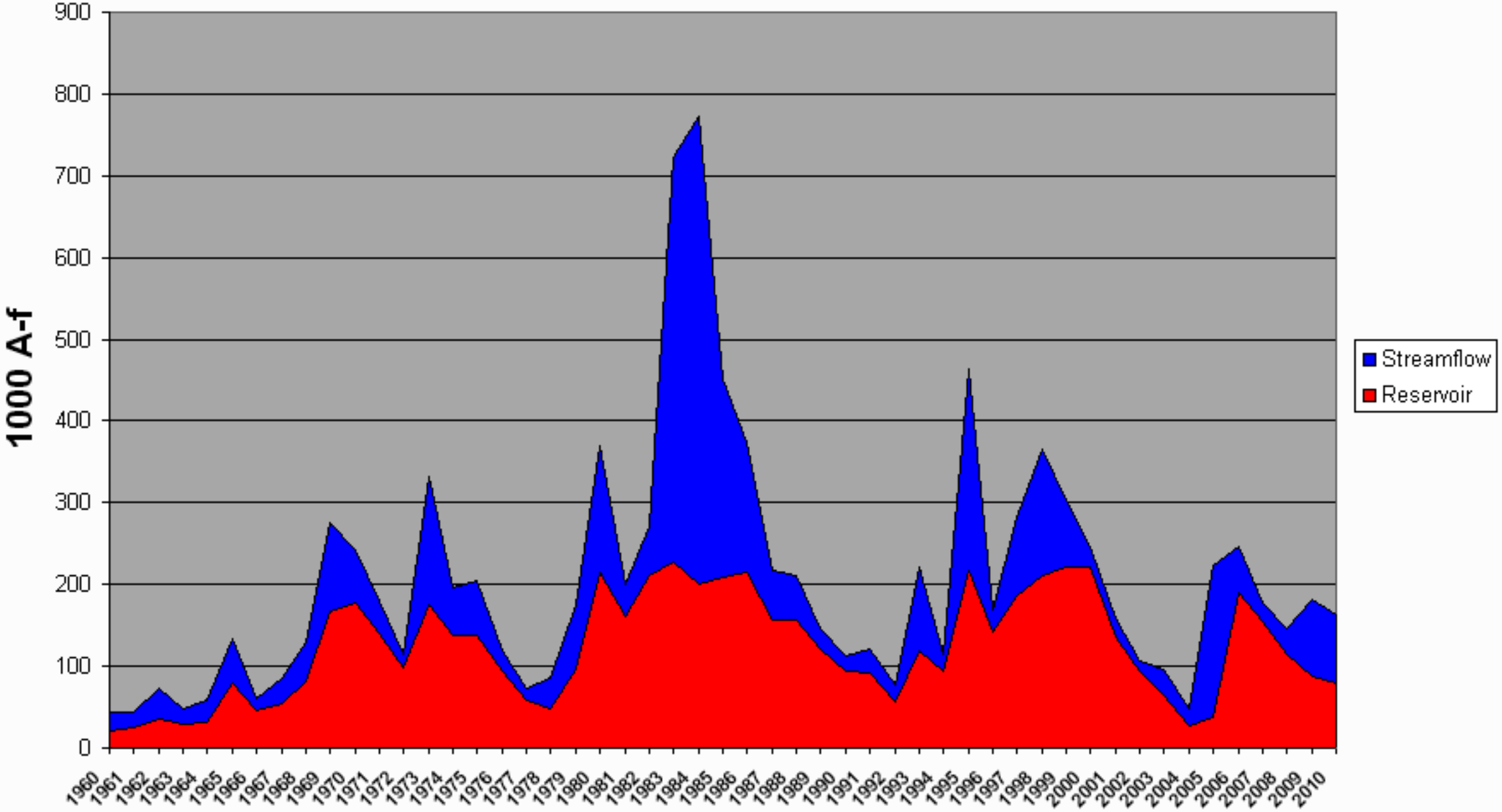
	Lower	Sevier	River	SWSI		
			January			
		EOM December Sevier Bridge Reservoir Storage	April-July Forecast Streamflow - Sevier at Gunnison	Reservoir + Streamflow		
#	Year	1000-AF	1000-AF	1000-AF	Probability	SWSI
1	1960	20.5	22.7	43.2	2	-4.01
2	1961	25.2	18.3	43.5	4	-3.85
3	2004	28	19.5	47.5	6	-3.69
4	1963	29.4	18.4	47.8	8	-3.53
5	1964	31.7	27.6	59.3	10	-3.37
6	1966	45	14.8	59.8	12	-3.21
7	1962	35.1	38.9	74.0	13	-3.04
8	1977	58.3	15.8	74.1	15	-2.88
9	1992	57.21	19.2	76.4	17	-2.72
10	1967	54.9	30.1	85.0	19	-2.56
11	1978	48.2	37.7	85.9	21	-2.40
12	2003	65.5	30.9	96.4	23	-2.24
13	2002	93.1	12.6	105.7	25	-2.08
14	1990	94.78	17.2	112.0	27	-1.92
15	1994	93.11	21.3	114.4	29	-1.76
16	1972	98.2	16.8	115.0	31	-1.60
17	1976	94.7	24.3	119.0	33	-1.44
18	1991	92.34	27.8	120.1	35	-1.28
19	1968	82.3	46.8	129.1	37	-1.12
20	1965	79.2	53.4	132.6	38	-0.96
21	2008	114.2	31.6	145.8	40	-0.80
22	1989	121	25.4	146.4	42	-0.64
23	2001	135.5	23.6	159.1	44	-0.48
24	**2010**	**78.8**	**85**	**163.8**	**46**	**-0.32**
25	1996	142.1	28.1	170.2	48	-0.16
26	1979	96.6	79.7	176.3	50	0.00
27	2007	154.4	22.3	176.7	52	0.16
28	1971	140.6	39.9	180.5	54	0.32
29	2009	86.7	95.0	181.7	56	0.48
30	1974	137.2	58.3	195.5	58	0.64
31	1981	160.6	40.6	201.2	60	0.80
32	1975	137.9	66.4	204.3	62	0.96
33	1988	157.5	52.7	210.2	63	1.12
34	1987	155.9	60.9	216.8	65	1.28
35	1993	118.2	104.1	222.3	67	1.44
36	2005	37.9	184.6	222.5	69	1.60
37	1970	176.9	64.8	241.7	71	1.76
38	2000	222.3	23.6	245.9	73	1.92
39	2006	189.3	56.8	246.1	75	2.08
40	1982	211.1	60.4	271.5	77	2.24

41	1969	167.8	108.3	276.1	79	2.40
42	1997	185.7	95.4	281.1	81	2.56
43	1999	222.3	81.1	303.4	83	2.72
44	1973	174.4	156.8	331.2	85	2.88
45	1998	210.1	155.0	365.1	87	3.04
46	1980	214.1	154.7	368.8	88	3.21
47	1986	214.1	160.5	374.6	90	3.37
48	1985	209.1	242.4	451.5	92	3.53
49	1995	217.7	245.2	462.9	94	3.69
50	1983	227.6	494.5	722.1	96	3.85
51	1984	200.4	572.7	773.1	98.08	4.01

Lower Sevier River Surface Water Supply Index
January

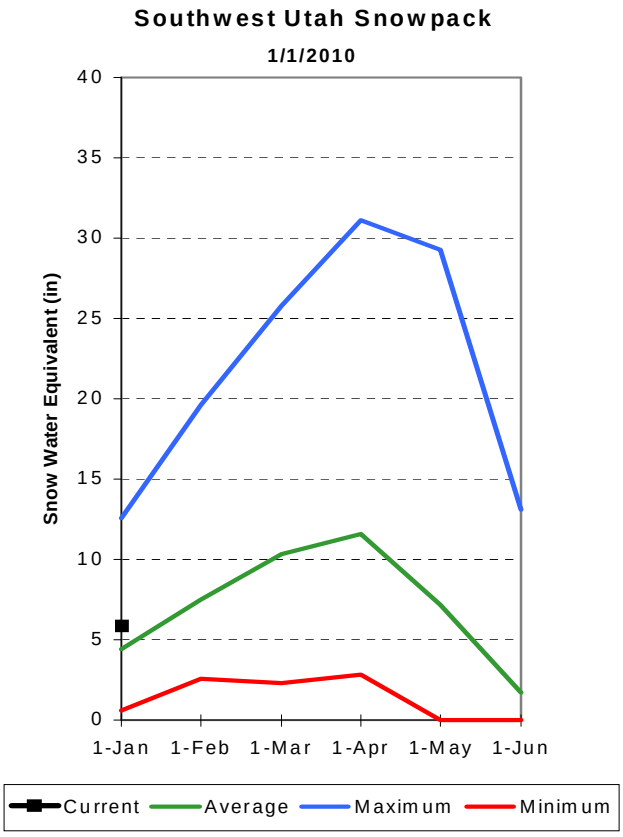


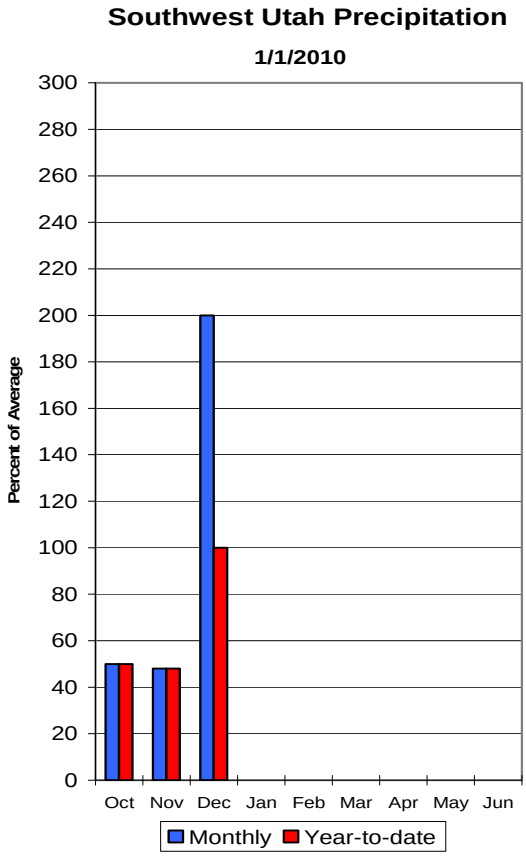
Lower Sevier River Surface Water Supply Index
January

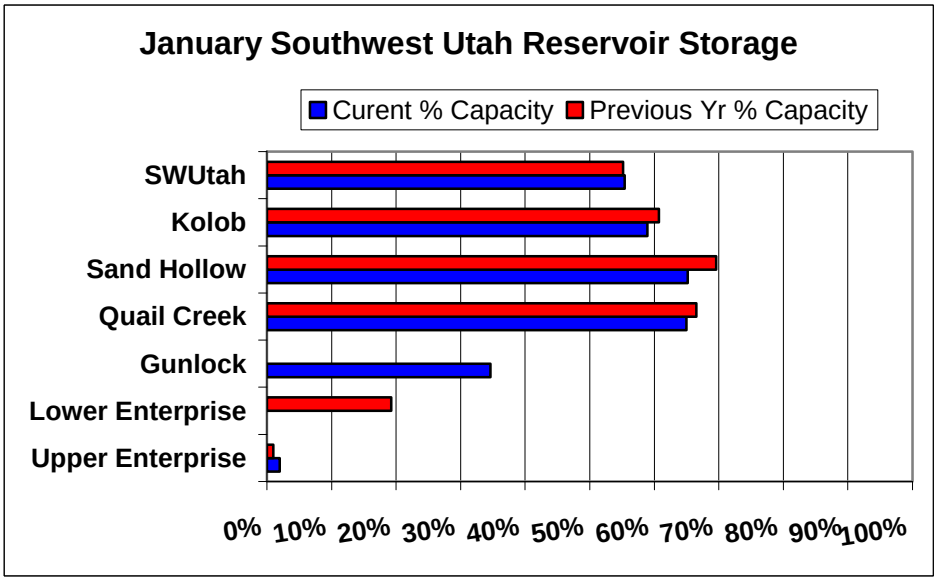


E. Garfield, Kane, Washington, & Iron Co.
January 1, 2010

Snowpacks in this region are much above normal at 134% of average, which is 83% of last year. Individual sites range from 68% at Donkey Reservoir Snotel, to 289% of average at Long Valley Junction Snotel. Precipitation during the month of December was much above average at 200%, bringing the seasonal accumulation (Oct-Dec) to 100% of average. The average soil moisture estimate in runoff producing areas is at 20% of saturation within the upper 2 feet of soil, compared to 28% last year. Forecast streamflows (Apr–July) range from 73% to 98% of average. Reservoir storage is at 55% of capacity, the same as last year at this time. The Surface Water Supply Index is at 56%, indicating average water supply conditions.







E. GARFIELD, KANE, WASHINGTON, & IRON Co. as of January 1, 2010

E. GARFIELD, KANE, WASHINGTON, & IRON Co.
Streamflow Forecasts - January 1, 2010

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)
Lake Powell Inflow (2)	APR-JUL	3200	4800	6200	78	7600	9600	7930
Virgin River at Virgin	APR-JUL	40	45	52	81	66	92	64
Virgin River nr Hurricane	APR-JUL	33	38	53	77	71	114	69
Santa Clara River nr Pine Valley	APR-JUL	1.20	2.60	4.00	73	5.60	8.90	5.50
Coal Creek nr Cedar City	APR-JUL	8.8	14.4	19.0	98	24	33	19.3

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

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
GUNLOCK	10.4	3.6	0.0	5.7
LAKE POWELL	24322.0	14401.0	13609.0	---
QUAIL CREEK	40.0	26.0	26.6	23.9
UPPER ENTERPRISE	10.0	0.2	0.1	---
LOWER ENTERPRISE	2.6	0.0	0.5	0.3

E. GARFIELD, KANE, WASHINGTON, & IRON Co.
Watershed Snowpack Analysis - January 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
VIRGIN RIVER	5	81	145
PAROWAN	2	95	128
ENTERPRISE TO NEW HARMONY	2	72	155
COAL CREEK	2	90	127
ESCALANTE RIVER	2	101	87
SOUTHWESTERN UTAH	9	83	134

* 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.

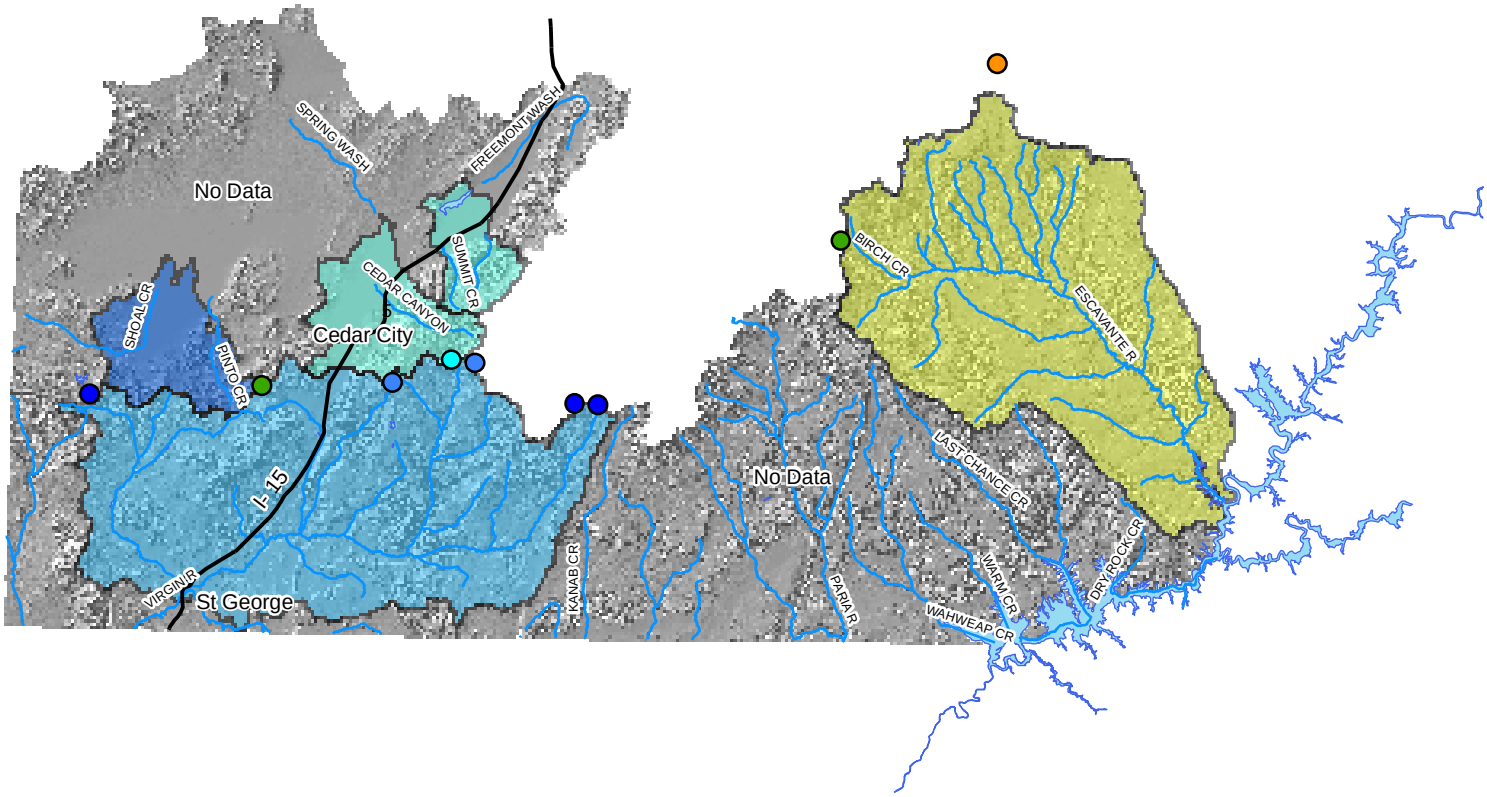
E. Garfield, Kane, Washington & Iron County

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%



Basin Average
132%

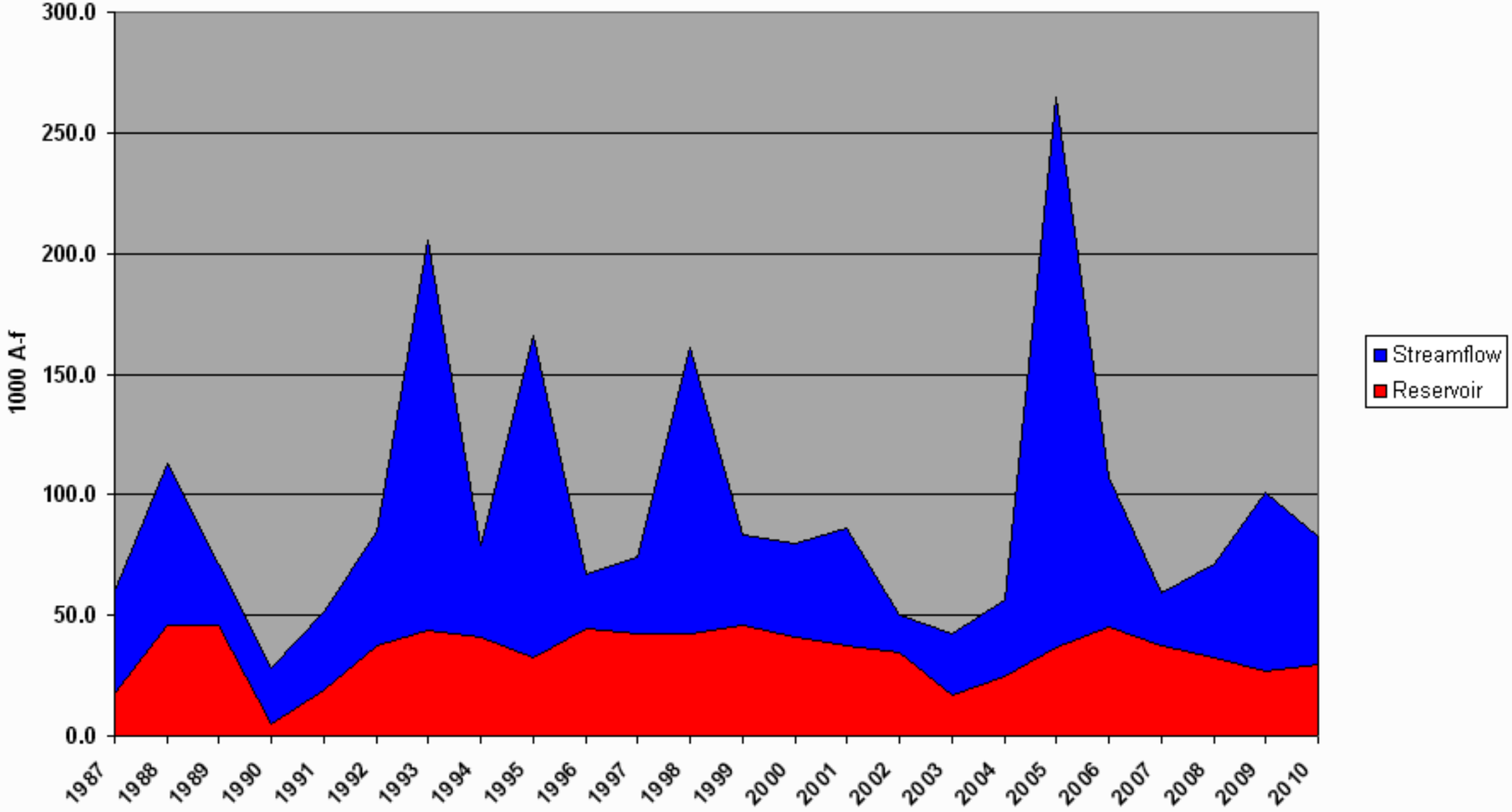
Provisional Data
Subject to Revision

Miles
0 5 10 20 30 40 50

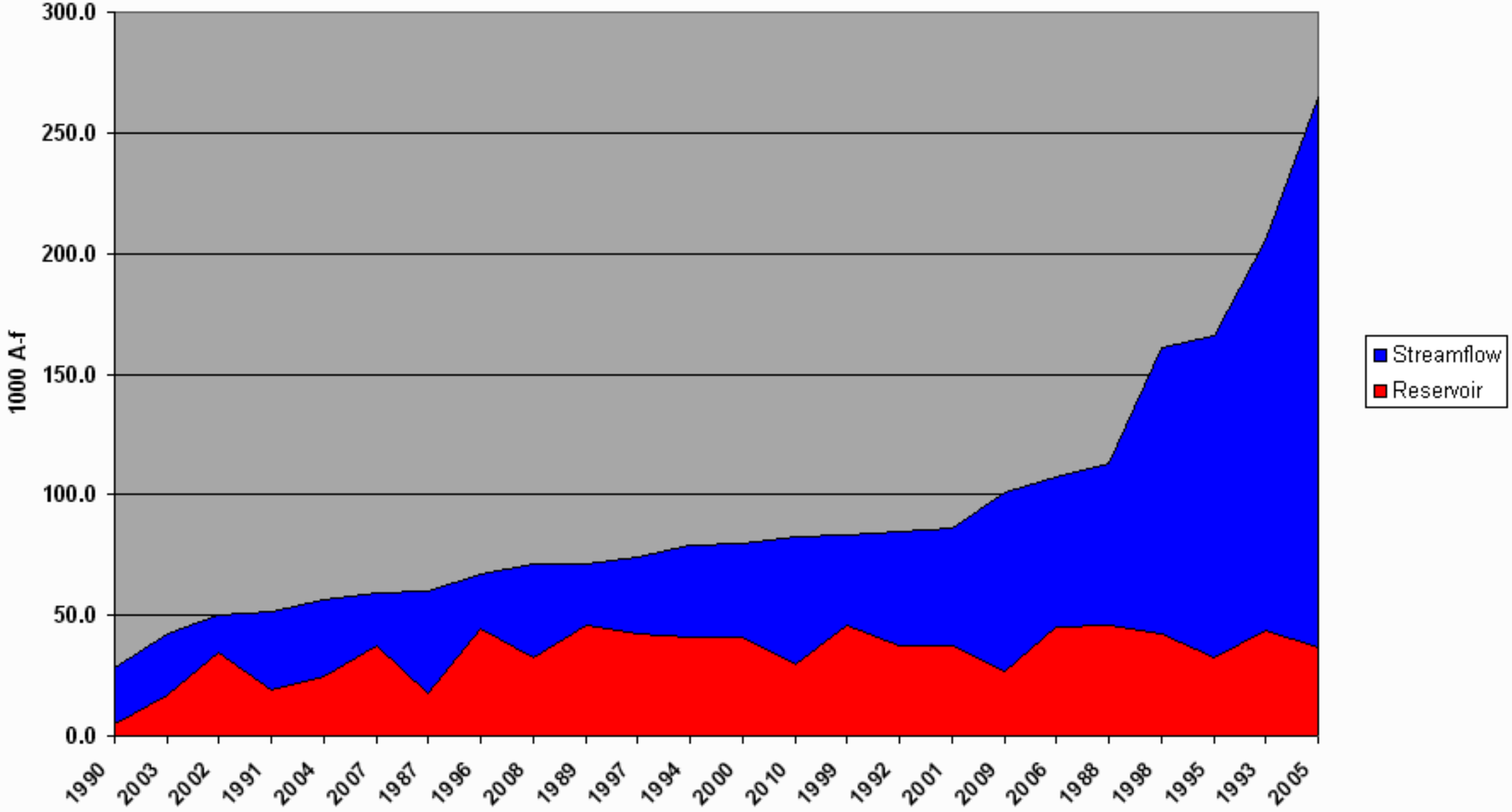
VIRGIN BASIN SWSI
January 1

#	Year	EOM December Reservoir KAF	Apr-Jul Streamflow KAF	Reservoir + Streamflow KAF	Probability	SWSI
1	1990	4.7	23.6	28.4	4	-3.83
2	2003	16.9	25.2	42.1	8	-3.50
3	2002	34.7	15.7	50.5	12	-3.17
4	1991	18.8	32.4	51.3	16	-2.83
5	2004	24.7	31.8	56.5	20	-2.50
6	2007	37.1	21.9	59.0	24	-2.17
7	1987	17.3	42.8	60.1	28	-1.83
8	1996	44.1	22.7	66.8	32	-1.50
9	2008	32.4	38.9	71.3	36	-1.17
10	1989	46.2	25.2	71.4	40	-0.83
11	1997	42.2	32.1	74.3	44	-0.50
12	1994	40.9	38.2	79.1	48	-0.17
13	2000	41.3	38.7	80.0	52	0.17
14	**2010**	**29.6**	**53.0**	**82.6**	**56**	**0.50**
15	1999	45.8	37.8	83.6	60	0.83
16	1992	37.4	47.4	84.8	64	1.17
17	2001	37.5	48.4	85.9	68	1.50
18	2009	26.6	74.0	100.6	72	1.83
19	2006	45.2	61.8	107.0	76	2.17
20	1988	46.0	67.1	113.2	80	2.50
21	1998	42.2	119.0	161.2	84	2.83
22	1995	32.6	133.4	166.1	88	3.17
23	1993	43.5	161.8	205.3	92	3.50
24	2005	36.5	228.2	264.7	96	3.83

Virgin River Basin Surface Water Supply Index
January



Virgin River Basin Surface Water Supply Index
January



DATA CURRENT AS OF:01/06/10 10:42:21

S N O W C O U R S E D A T A
JANUARY 2010

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
AGUA CANYON SNOTEL	8900	1/01	21	4.6	7.2	2.9
ALTA CENTRAL	8800	12/29	30	7.2	15.7	16.5
BEAVER DAMS SNOTEL	8000	1/01	30	5.6	3.0	4.3
BEAVER DIVIDE SNOTEL	8280	1/01	25	4.2	4.7	4.7
BEN LOMOND PK SNOTEL	8000	1/01	38	9.9	14.4	14.5
BEN LOMOND TR SNOTEL	6000	1/01	26	6.1	7.7	8.5
BEVAN'S CABIN	6450				-	4.2
BIG FLAT SNOTEL	10290	1/01	47	8.1	7.9	7.6
BIRCH CROSSING	8100				-	2.8
BLACK FLAT-U.M. CK S	9400	1/01	27	4.1	3.1	3.8
BLACK'S FORK GS-EF	9340				-	3.3
BLACK'S FORK JUNCTN	8930				-	3.7
BOX CREEK SNOTEL	9800	1/01	28	5.4	6.0	5.3
BRIAN HEAD	10000				-	8.2
BRIGHTON SNOTEL	8750	1/01	32	6.3	8.8	10.9
BRIGHTON CABIN	8700	12/29	26	5.8	10.5	11.5
BROWN DUCK SNOTEL	10600	1/01	24	4.3	6.8	7.7
BRYCE CANYON	8000				-	2.1
BUCK FLAT SNOTEL	9800	1/01	34	5.8	4.9	7.2
BUCK PASTURE	9700				-	-
BUCKBOARD FLAT	9000				-	5.4
BUG LAKE SNOTEL	7950	1/01	25	3.3	4.7	8.3
BURT'S-MILLER RANCH	7900				-	2.2
BURTS-MILLER RANCH S	7860	1/01	9	2.3	-	-
CAMP JACKSON SNOTEL	8600	1/01	33	6.4	7.9	5.6
CASCADE MOUNTAIN SNO	7770	1/01	31	6.1	6.9	-
CASTLE VALLEY SNOTEL	9580	1/01	37	5.7	6.1	4.9
CHALK CK #1 SNOTEL	9100	1/01	35	8.0	8.8	10.1
CHALK CK #2 SNOTEL	8200	1/01	21	4.5	6.0	6.7
CHALK CREEK #3	7500				-	3.5
CHEPETA SNOTEL	10300	1/01	24	5.1	5.8	6.0
CLAYTON SPRINGS SNTL	10000	1/01	29	5.2	5.3	-
CLEAR CK RIDG #1 SNT	9200	1/01	29	5.4	5.6	7.7
CLEAR CK RIDG #2 SNT	8000	1/01	28	4.0	5.1	6.0
CORRAL	8200				-	-
CURRANT CREEK SNOTEL	8000	1/01	17	3.4	4.2	4.2
DANIELS-STRAWBERRY S	8000	1/01	22	3.6	5.9	6.5
DILL'S CAMP SNOTEL	9200	1/01	28	5.1	4.3	5.5
DONKEY RESERVOIR SNO	9800	1/01	16	2.7	2.3	4.0
DRY BREAD POND SNTL	8350	1/01	25	4.6	8.1	9.1
DRY FORK SNOTEL	7160	1/01	25	4.6	4.3	6.9
EAST WILLOW CREEK SN	8250	1/01	23	4.4	4.9	2.9
FARMINGTON U. SNOTEL	8000	1/01	41	7.4	12.4	13.0
FARMINGTON L. SNOTEL	6780	1/01	31	6.4	7.9	-
FARNSWORTH LK SNOTEL	9600	1/01	47	8.1	6.6	8.0
FISH LAKE	8700				-	2.9
FIVE POINTS LAKE SNO	10920	1/01	19	4.9	6.4	7.0
G.B.R.C. HEADQUARTER	8700				-	-
G.B.R.C. MEADOWS	10000				-	9.7
GARDEN CITY SUMMIT	7600				-	6.5
GARDEN CITY SUMMIT S	7700	1/01	22	4.0	-	-
GARDNER PEAK SNOTEL	8350	1/01	20	4.8	7.7	-
GEORGE CREEK	8840				-	-
GOOSEBERRY R.S.	8400				-	5.1
GOOSEBERRY R.S. SNTL	7900	1/01	23	4.0	2.7	3.6
GUTZ PEAK SNOTEL	6820	1/01	18	5.1	7.0	-
HARDSCRABBLE SNOTEL	7250	1/01	27	5.7	6.4	6.5
HARRIS FLAT SNOTEL	7700	1/01	16	4.2	6.3	2.5
HAYDEN FORK SNOTEL	9100	1/01	24	5.0	6.8	6.3
HENRY'S FORK	10000				-	-
HEWINTA SNOTEL	9500	1/01	18	2.7	2.7	4.1
HICKERSON PARK SNTL	9100	1/01	17	3.2	1.5	2.9
HIDDEN SPRINGS	5500	12/30	15	2.3	3.3	3.4
HOBBLE CREEK SUMMIT	7420				-	6.1
HOLE-IN-ROCK SNOTEL	9150	1/01	17	2.6	1.5	2.7
HORSE RIDGE SNOTEL	8260	1/01	27	4.1	6.4	9.3
HUNTINGTON-HORSESHOE	9800				-	9.7
INDIAN CANYON SNOTEL	9100	1/01	16	3.4	2.8	4.4
JOHNSON VALLEY	8850				-	2.7
JONES CORRAL SNOTEL	9750	1/01	21	3.8	4.8	-
KILFOIL CREEK	7300				-	5.5
KILLYON CANYON	6300	12/29	16	2.9	4.3	5.1
KIMBERLY MINE SNOTEL	9300	1/01	32	5.5	6.5	6.0

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
KING'S CABIN SNOTEL	8730	1/01	19	4.3	3.0	5.0
KLONDIKE NARROWS	7400				-	7.5
KLONDIKE NARROWS SNO	7300	1/01	24	4.0	-	-
KOLOB SNOTEL	9250	1/01	40	9.7	11.4	6.9
LAKEFORK #1 SNOTEL	10100	1/01	16	3.8	5.8	5.6
LAKEFORK BASIN SNTL	10900	1/01	28	5.4	8.0	8.2
LAKEFORK #3 SNOTEL	8500	1/01	10	2.2	-	-
LAKEFORK MOUNTAIN #3	8400				-	2.8
LAMBS CANYON	7400	12/30	25	3.7	7.3	7.4
LASAL MOUNTAIN LOWER	8800				-	3.8
LASAL MOUNTAIN SNTL	9850	1/01	29	5.3	6.4	4.7
LIGHTNING RIDGE SNTL	8220	1/01	23	4.9	7.2	-
LILY LAKE SNOTEL	9050	1/01	26	4.8	5.3	5.5
LITTLE BEAR LOWER	6000				-	4.3
LITTLE BEAR SNOTEL	6550	1/01	21	4.0	5.2	5.2
LITTLE GRASSY SNOTEL	6100	1/01	13	4.6	5.3	2.1
LONG FLAT SNOTEL	8000	1/01	16	3.0	5.3	2.8
LONG VALLEY JCT. SNT	7500	1/01	22	5.2	5.7	1.8
LOOKOUT PEAK SNOTEL	8200	1/01	32	5.8	8.5	9.9
LOST CREEK RESERVOIR	6130				-	2.0
LOUIS MEADOW SNOTEL	6700	1/01	30	6.3	8.4	-
MAMMOTH-COTTONWD SNT	8800	1/01	33	6.9	6.1	7.6
MERCHANT VALLEY SNTL	8750	1/01	40	7.0	5.2	5.4
MIDDLE CANYON	7000				-	5.9
MIDWAY VALLEY SNOTEL	9800	1/01	52	12.1	12.6	9.0
MILL CREEK	6950	12/30	24	4.2	7.6	8.3
MILL-D NORTH SNOTEL	8960	1/01	26	4.6	8.5	10.3
MILL-D SOUTH FORK	7400	12/29	21	3.8	8.2	8.6
MINING FORK SNOTEL	8000	1/01	20	4.2	4.9	5.5
MONTE CRISTO SNOTEL	8960	1/01	33	6.8	9.8	11.0
MOSBY MTN. SNOTEL	9500	1/01	17	2.9	4.1	5.1
MT.BALDY R.S.	9500				-	9.9
MUD CREEK #2	8600				-	5.3
OAK CREEK	7760				-	-
PANGUITCH LAKE R.S.	8200				-	-
PARLEY'S CANYON SNTL	7500	1/01	23	4.6	6.1	7.2
PARRISH CREEK SNOTEL	7740	1/01	34	5.9	8.6	-
PAYSON R.S. SNOTEL	8050	1/01	26	5.9	6.1	7.2
PICKLE KEG SNOTEL	9600	1/01	37	5.3	4.4	6.2
PINE CREEK SNOTEL	8800	1/01	37	7.1	6.0	8.8
RED PINE RIDGE SNTL	9200	1/01	30	4.2	4.2	6.7
REDDEN MINE LOWER	8500				-	6.7
REES'S FLAT	7300				-	5.6
ROCK CREEK SNOTEL	7900	1/01	14	2.2	2.2	3.7
ROCKY BN-SETTLEMT SN	8900	1/01	23	4.6	7.4	10.0
SEELEY CREEK SNOTEL	10000	1/01	17	3.6	4.3	6.4
SMITH MOREHOUSE SNTL	7600	1/01	23	3.5	6.1	5.7
SNOWBIRD SNOTEL	9700	1/01	39	8.6	17.3	13.2
SPIRIT LAKE	10300				-	5.5
SPIRIT LK SNOTEL	10200	1/01	23	4.6	-	-
SQUAW SPRINGS	9300				-	3.2
STEEL CREEK PARK SNO	10100	1/01	32	5.8	4.3	6.7
STILLWATER CAMP	8550				-	3.9
STRAWBERRY DIVIDE SN	8400	1/01	28	4.3	5.0	7.4
SUSC RANCH	8200				-	2.8
TALL POLES	8800				-	5.3
TEMPLE FORK SNOTEL	7410	1/01	24	3.6	6.4	-
THAYNES CANYON SNTL	9200	1/01	30	6.3	8.5	9.0
THISTLE FLAT	8500				-	-
TIMBERLINE	9100				-	-
TIMBERLINE SNOTEL	8680	1/01	19	3.8	3.7	-
TIMPANOGOS DIVIDE SN	8140	1/01	34	6.2	9.5	9.2
TONY GROVE LK SNOTEL	8400	1/01	40	5.9	12.8	14.3
TONY GROVE R.S.	6250				-	5.0
TONY GROVE RS SNOTEL	6400	1/01	18	3.2	-	-
TRIAL LAKE	9960				-	9.8
TRIAL LAKE SNOTEL	9960	1/01	36	7.2	9.3	10.5
TROUT CREEK SNOTEL	9400	1/01	20	3.5	3.1	4.2
UPPER JOES VALLEY	8900				-	4.1
USU DOC DANIEL SNTL	8270	1/01	43	7.8	10.8	-
VERNON CREEK SNOTEL	7500	1/01	22	3.6	4.4	4.0
VIPONT	7670				-	-
WEBSTER FLAT SNOTEL	9200	1/01	34	6.9	8.5	6.0
WHITE RIVER #1 SNTL	8550	1/01	22	4.1	3.0	5.2
WHITE RIVER #3	7400				-	3.5
WIDTSOE #3 SNOTEL	9500	1/01	21	4.6	4.8	4.4
WRIGLEY CREEK	9000				-	4.3
YANKEE RESERVOIR	8700				-	3.7

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Utah Water Supply Outlook Report

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