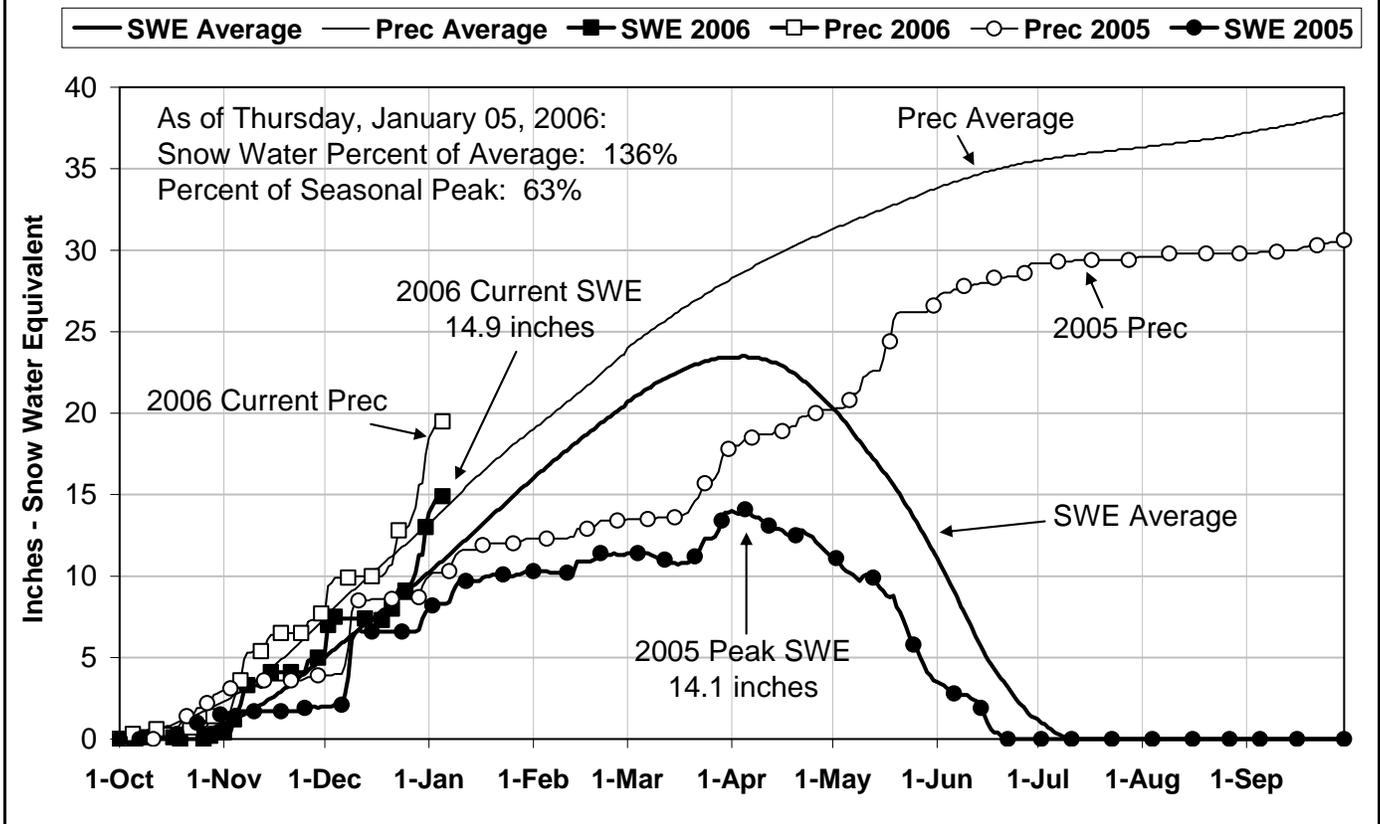


# Idaho Water Supply Outlook Report

## January 1, 2006

**Boise Basin 2006 Snowpack Graph (10 Sites)**



The mountain snowpack across central and southern Idaho is much better than last year. In fact, the Boise and Big Wood basin snowpack have just surpassed last year's peak snow water content. The average snow water equivalent for the Boise basin, based on ten SNOTEL sites, is 14.9 inches. Last year's peak was 14.1 inches in early April. The Boise basin snowpack is currently 136% of average; this is already 63% of the seasonal peak with more than half the winter still to come. Total precipitation since the water year started October 1, 2005 is 19.5 inches. By comparison this value was not exceeded until the third week of April in 2005. With the snowpack, precipitation and reservoir storage looking more encouraging than in recent years, water supplies could be the best since the drought started in 2000.

# Basin Outlook Reports and Federal - State - Private Cooperative Snow Surveys

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or

**Natural Resources Conservation Service  
Snow Surveys  
9173 West Barnes Drive, Suite C  
Boise, Idaho 83709-1574  
(208) 378-5740**

**Internet Web Address**

**<http://www.id.nrcs.usda.gov/snow/>**

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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 snow courses 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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# ***IDAHO WATER SUPPLY OUTLOOK REPORT***

***January 1, 2006***

## **SUMMARY**

Calendar year 2005 started with the continuation of the drought as January and February set record low combined precipitation totals. However, the year ended with frozen soils, ice jams and floods in parts of Idaho in December. If the skies wouldn't have opened up in May and December, 2005 would have been another dry year. The wet weather in the latter part of December doubled the snowpack in the central mountains and allowed the Boise and Big Wood basins to already surpass last year's peak snow water amounts. The highest snowpacks are 130-150% of average in Idaho's central mountains. The lowest are in the Panhandle Region at 56% of average in the Coeur d'Alene basin. December precipitation ranged from 200% of average in the basins south of the Snake River basin to 84% in the Panhandle. December's precipitation not only boosted lower elevation streams and reservoir storage but also primed the soils for when the snow melts. Most reservoirs are 80-110% of average, except Bear Lake, Blackfoot, Magic and Salmon Falls reservoirs which are 40-70% of average. Streamflow forecasts range from a low of 72% of average for the tributaries in the Panhandle Region to 133% for the Big Wood River below Magic Dam. The Snake River near Heise is forecast at 108% of average and when combined with current reservoir storage could produce the best water supplies since 1999. The water supply outlook picture is more encouraging this year than it has been in the past, with more than half the winter still to come, lets hope Mother Nature doesn't turn the spigot off in the second half of winter as we have seen in recent years.

## **SNOWPACK**

The warmer, wet weather that replaced the cold, dry weather in the second half of December doubled the amount of snow water content in the central mountains. The higher elevation SNOTEL sites in the Boise and Big Wood basins, where nearly all the precipitation fell as snow, doubled the amount of snow water equivalent on the ground between December 20 and January 1. Snow depths in the higher elevations also doubled at a few measuring stations. Deadwood Summit SNOTEL site increased from 47 inches of snow on the ground on December 19 to 103 inches on January 1. Both the Boise basin snowpack, 129% of average, and Big Wood basin, 145%, have just exceeded their snow water content peaks of last season. Elsewhere in the state, snowpacks are 120% of average in the Upper Snake and Salmon basins and 135-150% in the Bear River, Oakley and Salmon Falls basins. The Clearwater basin is 77% of average while the lowest snowpack in the state is 56% in the Coeur d'Alene basin. The Panhandle Region snowpack is only 31% of its seasonal peak while the Little Wood basin, which is 155% of average, already has 66% of its seasonal snowpack.

## **PRECIPITATION**

October precipitation varied with above average amounts in northern Idaho and near to below in southern. November precipitation set the pattern for December with below average in the north and above in the south each month. After a good snowfall in late November, cold, dry weather with inversions moved in and finally broke in mid-December bringing warmer temperature with rain and snow. The warm temperatures produced rain falling up to 7,000 feet in late December, created ice jams on some rivers and thawed the frozen valley soils from early December. The frozen soils have since thawed but contributed to more runoff and less infiltration of the water. Orchard Range SNOTEL site recorded frozen soils at 20 inches deep, temperatures of 20 degrees F eight inches below the surface, and 16 degrees F two inches deep in mid-December. Deadwood Summit and Trinity Mountain SNOTEL sites in central Idaho received over 15 inches of precipitation in December, average amounts are 9.5 inches. This isn't a record, in December 1996 Deadwood Summit received 30 inches and Trinity Mountain received 25 inches of precipitation. South Mountain SNOTEL site in the Owyhee basin received 2.8 inches of precipitation in 24 hours on December 30. Water year to date precipitation increases from north to south in the state; amounts range from 85% of average in the Panhandle Region to 140% in the basins south of the Snake River.

## **RESERVOIRS**

Thanks to abundant rainfall last May that reduced irrigation demand and allowed reservoirs to store more water and even fill, reservoir carryover storage is much better than a year ago. As of the end of December, most reservoirs are 80-110% of average, except Blackfoot Bear Lake, Magic and Salmon Falls reservoirs which are 40-70% of average. Similar to last May, most reservoirs got a boost in inflow in late December from the rain and flooding in some areas. Owyhee Reservoir increased 150,000 acre-feet in less than two weeks and is now 66% full. Storage in Bear Lake and Jackson Lake is still below average but they have over three times as much water as a year ago.

Note: NRCS reports reservoir information in terms of usable volumes, which includes both active, inactive and in some cases, dead storage. Other operators may report reservoir contents in different terms. For additional information, see the reservoir definitions in this report..

## **STREAMFLOW**

Prior to the late December wet spell, most streams in Idaho were flowing at or below average. Some streams, such as the Salmon River at White Bird were below average since last June. This is a sign that the fall rains helped to improve soil moisture, but did not saturate the soils. Cold weather in early December caused ice to form on many streams. Now, most streams that are not iced over are flowing above average except in the Snake River canyon which remains near record low because of the drought and low spring flows. The December precipitation not only provided a boost in flows and reservoir storage but also primed the soils which will help to improve the snowmelt runoff efficiency when the snow melts. Current streamflow forecasts range from a low of 72% of average in the Panhandle tributaries to around 130% in the Middle Fork Salmon, Big Wood and South Fork Boise basins. Elsewhere, the Snake River near Heise is forecast at 108% of average and Bear River at Stewart Dam is forecast at 113%. The forecast numbers mentioned in this narrative are the volume under the 50% Chance of Exceeding, which means there is a 50% chance the volume will be greater or less than the given value.

## **RECREATION**

The recent precipitation and cooler temperatures delivered delightful news for winter recreationists. Snow water content amounts doubled and a few SNOTEL sites are reporting 100 inches of snow on the ground in the central mountains. However, heavy snowfall and rain falling up to 7,000 feet in the central mountains created wet and soggy snowpacks which increased avalanche danger. More seasonable temperatures have stabilized the snowpack and even allowed powder days for skiers across the state. River runners should be excited to see above average snowpacks in the southern two-thirds of the state. The Middle Fork Salmon River is forecast at 127% of average, Bruneau River at 121%, and Owyhee River near Rome at 106%. The Selway and Lochsa rivers are forecast at 102% and 95% of average, respectively. With more than half the winter still to come, conditions can still improve or deteriorate. Lets hope the storms keep coming to maintain a healthy snowpack for winter and summer users of this resource.

**IDAHO SURFACE WATER SUPPLY INDEX (SWSI)**

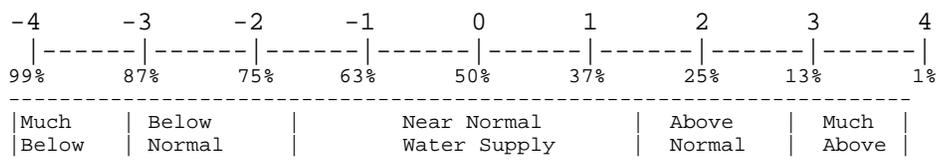
*As of January 1, 2006*

The Surface Water Supply Index (SWSI) is a predictive indicator of surface water availability within a watershed for the spring and summer water use season. The index is calculated by combining pre-runoff reservoir storage (carryover) with forecasts of spring and summer streamflow. SWSI values are scaled from +4.0 (abundant supply) to -4.0 (extremely dry), with a value of zero indicating a median water supply as compared to historical occurrences. The SWSI analysis period is from 1971 to present.

SWSI values provide a more comprehensive outlook of water availability by combining streamflow forecasts and reservoir storage where appropriate. The SWSI index allows comparison of water availability between basins for drought or flood severity analysis. Threshold SWSI values have been determined for some basins to indicate the potential for agricultural irrigation water shortages.

<i>BASIN or REGION</i>	<i>SWSI Value</i>	<i>Most Recent Year With Similar SWSI Value</i>	<i>Agricultural Water Supply Shortage May Occur When SWSI is Less Than</i>
PANHANDLE	-1.9	1998	NA
CLEARWATER	1.2	1989	NA
SALMON	1.0	1995	NA
WEISER	1.7	1995	NA
PAYETTE	2.0	1995	NA
BOISE	1.7	1999	-2.1
BIG WOOD	1.3	1996	-0.5
LITTLE WOOD	1.3	1999	-2.0
BIG LOST	1.7	1999	-0.5
LITTLE LOST	0.3	1996	0.0
HENRYS FORK	0.5	1996	-3.3
SNAKE (HEISE)	1.0	1998	-1.8
OAKLEY	0.8	1996	-1.0
SALMON FALLS	1.0	1999	-1.0
BRUNEAU	2.0	1998	NA
BEAR RIVER	-2.0	2002	-2.9

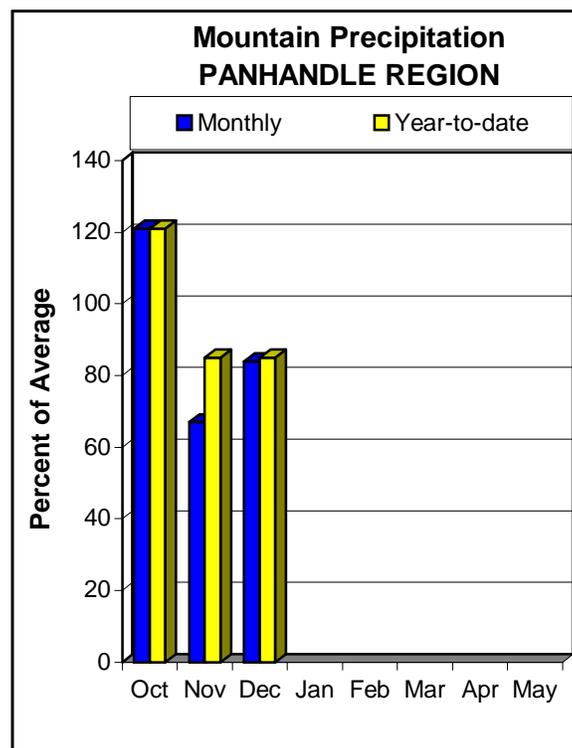
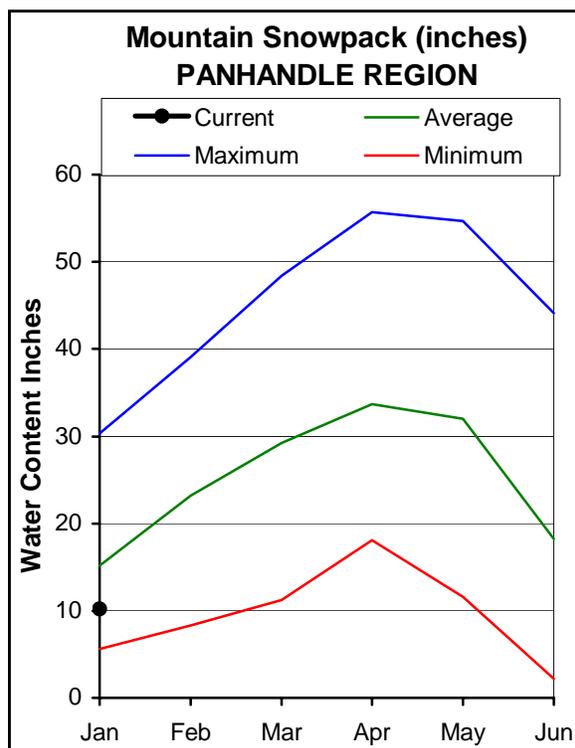
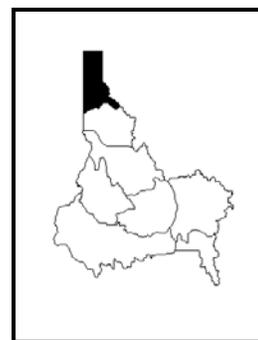
**SWSI SCALE, PERCENT CHANCE OF EXCEEDANCE, AND INTERPRETATION**



NA = Not Applicable

Note: The Percent Chance of Exceedance is an indicator of how often a range of SWSI values might be expected to occur. Each SWSI unit represents about 12% of the historical occurrences. As an example of interpreting the above scale, the SWSI can be expected to be greater than -3.0, 87% of the time and less than -3.0, 13% of the time. Half the time, the SWSI will be below and half the time above a value of zero. The interval between -1.5 and +1.5 described as "Near Normal Water Supply," represents three SWSI units and would be expected to occur about one-third (36%) of the time.

# PANHANDLE REGION JANUARY 1, 2006



## WATER SUPPLY OUTLOOK

The new water year started with a bang in the Panhandle bringing precipitation that was 121% of average in October, but it has been all downhill since. November precipitation was 67% of average and December brought 84%, the lowest in the state. The Panhandle Region missed the abundant moisture that the southern half of the state received. Cold temperatures in early December finally gave way to warmer temperatures and rain near the end of December melting lower elevation snow, increasing streams. However, frozen soils in some areas prevented some of the moisture from infiltrating and increased runoff. The late December precipitation was not enough to bounce the snowpack up to normal levels and the snow remains the lowest in the state and similar to last year. Coeur d'Alene River basin hosts the lowest snowpack in the state at 56% of average, same as a year ago. The Priest River snowpack is 76% of average, slightly better than last year while the Pend Oreille is 86%, 30% better than last year. Overall, the Panhandle snowpack is 67% of average, but is only 31% of its seasonal peak. Streams are forecast at 72-97% of average. With more than half the winter still to come, much more moisture is needed otherwise water users will be hoping for above average spring precipitation to make up for the lack of winter snows.

PANHANDLE REGION  
Streamflow Forecasts - January 1, 2006

Forecast Point	Forecast Period	<<----- Drier ----- Future Conditions ----- Wetter ----->>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
KOOTENAI at Leonia (1,2)	APR-JUL	4360	5660	6250	89	6840	8140	7040
	APR-SEP	4490	6360	7210	89	8060	9930	8120
MOYIE RIVER at Eastport	APR-JUL	190	250	290	72	330	390	405
	APR-SEP	200	265	305	73	345	410	420
SMITH CREEK	APR-JUL	74	92	104	85	116	134	123
	APR-SEP	76	96	109	85	122	142	129
BOUNDARY CREEK	APR-JUL	72	89	100	81	111	128	123
	APR-SEP	75	92	104	81	116	133	129
CLARK FK at Whitehorse Rpds (1,2)	APR-JUL	5970	9360	10900	97	12440	15830	11300
	APR-SEP	6570	10310	12000	96	13690	17430	12500
PEND OREILLE Lake Inflow (2)	APR-JUL	8140	10620	12300	97	13980	16460	12700
	APR-SEP	8860	11560	13400	96	15240	17940	13900
PRIEST near Priest River (1,2)	APR-JUL	570	710	775	95	840	980	815
	APR-SEP	495	720	825	95	930	1155	870
NF COEUR D'ALENE RIVER AT ENAVILLE	APR-JUL	455	580	665	90	750	875	740
	APR-SEP	480	610	700	90	790	920	780
ST. JOE at Calder	APR-JUL	710	895	1020	90	1140	1330	1140
	APR-SEP	765	955	1080	90	1210	1400	1200
SPOKANE near Post Falls (2)	APR-JUL	1410	1900	2240	88	2580	3070	2550
	APR-SEP	1480	1980	2330	88	2680	3180	2650
SPOKANE at Long Lake (2)	APR-JUL	1480	2120	2550	90	2980	3620	2850
	APR-SEP	1630	2300	2760	90	3220	3890	3070

PANHANDLE REGION Reservoir Storage (1000 AF) - End of December					PANHANDLE REGION Watershed Snowpack Analysis - January 1, 2006			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
HUNGRY HORSE	3451.0	2946.0	3022.0	2420.9	Kootenai ab Bonners Ferry	14	86	68
FLATHEAD LAKE	1791.0	1161.0	1251.0	1192.7	Moyie River	4	83	65
NOXON RAPIDS	335.0	324.6	316.6	315.8	Priest River	4	117	76
PEND OREILLE	1561.3	853.7	898.5	673.4	Pend Oreille River	63	130	86
COEUR D'ALENE	238.5	129.1	110.5	110.1	Rathdrum Creek	1	159	72
PRIEST LAKE	119.3	56.6	59.1	55.7	Hayden Lake	0	0	0
					Coeur d'Alene River	6	104	56
					St. Joe River	4	122	69
					Spokane River	9	112	60
					Palouse River	1	150	47

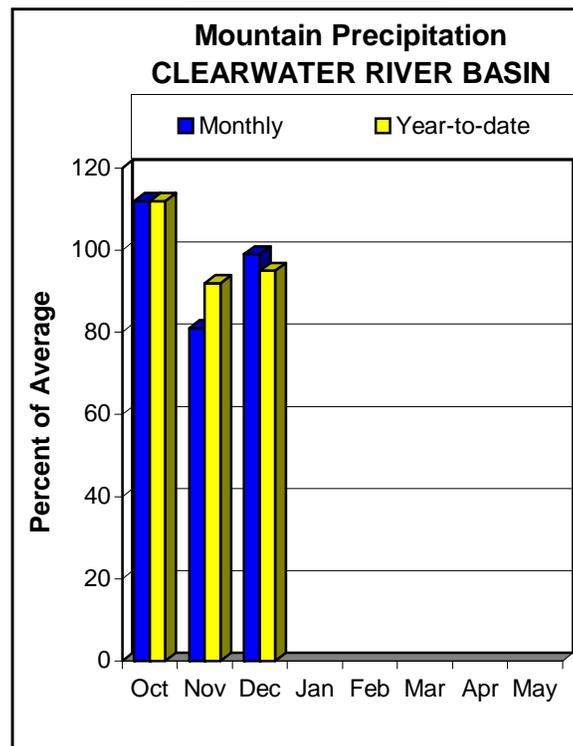
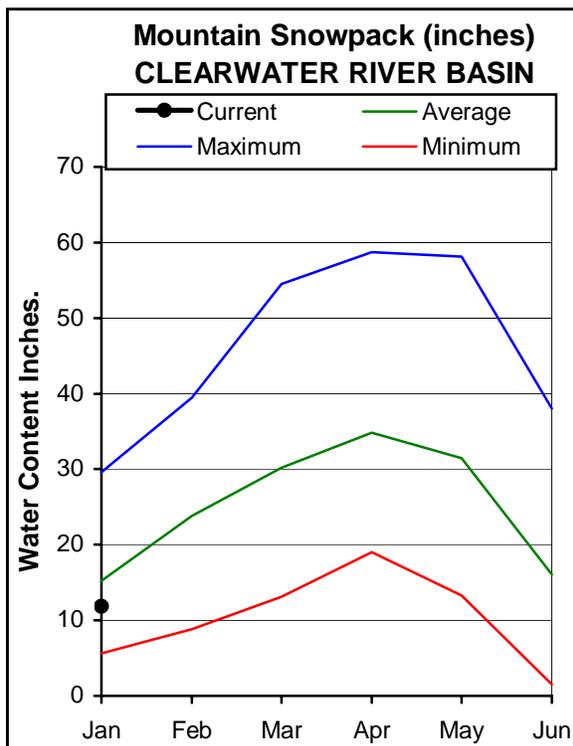
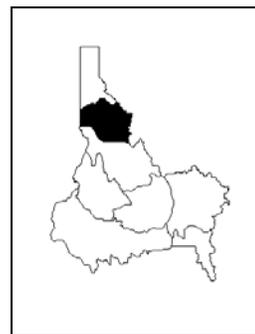
\* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

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.

# CLEARWATER RIVER BASIN

## JANUARY 1, 2006



## WATER SUPPLY OUTLOOK

Monthly precipitation for the current water year started out above average at 112%, decreased to 81% in November, and was near average in December. Precipitation for the water year is 95% of average, which is above last year, but nothing to brag about. Snowpacks are 73% of average in the North Fork Clearwater basin, 81% of average in the Lochsa basin and 106% in the Selway basin. Overall, the Clearwater River basin is 77% of average, better than last year, but remember last year snow was only 62% of average. Dworshak Reservoir is 66% full, which is average for this time of year. Streamflow forecasts call for near to slightly below average volumes with Dworshak Reservoir inflow and the Lochsa river forecast about 95% of average while the Selway and Clearwater River at both Orofino and Spalding are forecast about 102% of average. With more than half winter still to come and the snowpack at only 35% of its seasonal peak, the water supply outlook is not as encouraging as in the southern half of the state. The Salmon River basin is the dividing area between above average snowpacks to the south and below average to the north. More storms are needed to maintain a healthy snowpack for the numerous water users.

CLEARWATER RIVER BASIN  
Streamflow Forecasts - January 1, 2006

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
SELWAY near Lowell	APR-JUL	1560	1880	2090	102	2300	2620	2060
	APR-SEP	1640	1970	2200	101	2430	2760	2170
LOCHSA near Lowell	APR-JUL	1050	1290	1450	95	1610	1850	1530
	APR-SEP	1130	1370	1530	95	1690	1930	1610
DWORSHAK RESV INFLOW (1,2)	APR-JUL	1420	2060	2450	93	2840	3700	2640
	APR-SEP	1550	2210	2600	93	2990	3850	2800
CLEARWATER at Orofino (1)	APR-JUL	2550	4070	4760	102	5450	6970	4650
	APR-SEP	2810	4330	5020	102	5710	7230	4900
CLEARWATER at Spalding (1,2)	APR-JUL	3690	6260	7430	100	8600	11170	7430
	APR-SEP	4110	6680	7850	100	9020	11590	7850

CLEARWATER RIVER BASIN Reservoir Storage (1000 AF) - End of December					CLEARWATER RIVER BASIN Watershed Snowpack Analysis - January 1, 2006			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
DWORSHAK	3468.0	2292.6	2627.3	2228.2	North Fork Clearwater	9	116	73
					Lochsa River	3	148	81
					Selway River	4	150	106
					Clearwater Basin Total	17	125	77

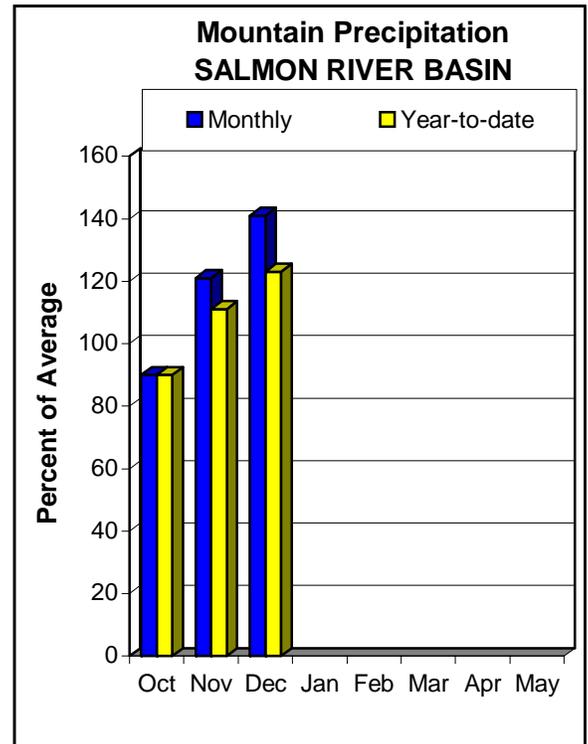
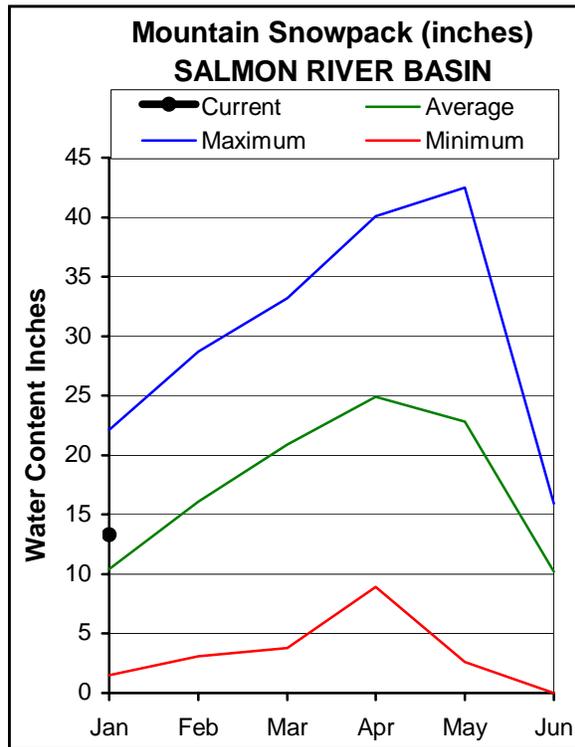
\* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

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.

# SALMON RIVER BASIN

## JANUARY 1, 2006



## WATER SUPPLY OUTLOOK

The new water year started where last water year ended with monthly precipitation below average at 92% in October. November brought 115% of average precipitation. Then cold, dry weather in early December gave way to warmer and much wetter weather the second half of the month. December precipitation was 141% of average ranging from nearly twice normal in the central and west-central mountains to 90% of average along the Montana border. Snowpack percentages mirror the precipitation patterns with the lowest amount in the Lemhi basin at 109% of average and higher amounts in the South Fork and Middle Fork Salmon Rivers at 136%. Streamflow forecasts mirror the snow and precipitation patterns with the Lemhi River forecast at 98% of average and the Salmon River above Salmon forecast at 115%. The Middle Fork Salmon River is forecast at 127% of average. The December precipitation brought the Salmon River at White Bird to above average levels for the first time since early June, and the streamflow forecast is 111% of average for the April through July period. In terms of accumulating snow, the Salmon River snowpack is two weeks ahead of schedule and at half of its seasonal peak. Water supplies and river running opportunities are looking great at this time; however, the Salmon River basin is the dividing area between above average snowpacks to the south and below average to the north. Let's hope the storms keep coming to maintain a healthy snowpack this year.

SALMON RIVER BASIN  
Streamflow Forecasts - January 1, 2006

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
SALMON at Salmon (1)	APR-JUL	545	845	985	115	1125	1425	855
	APR-SEP	700	1000	1140	114	1280	1580	1000
Lemhi River nr Lemhi	APR-JUL	46	67	84	98	103	134	86
	APR-SEP	59	84	103	98	125	160	105
MF Salmon at MF Lodge	APR-JUL	683	864	1000	127	1145	1377	785
	APR-SEP	764	962	1110	127	1268	1520	875
SALMON at White Bird (1)	APR-JUL	4140	5760	6490	111	7220	8840	5850
	APR-SEP	4840	6460	7190	111	7920	9540	6480

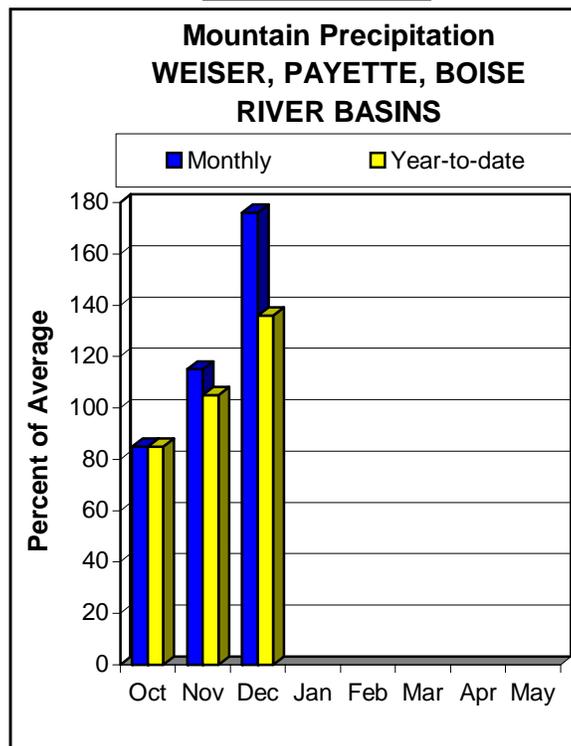
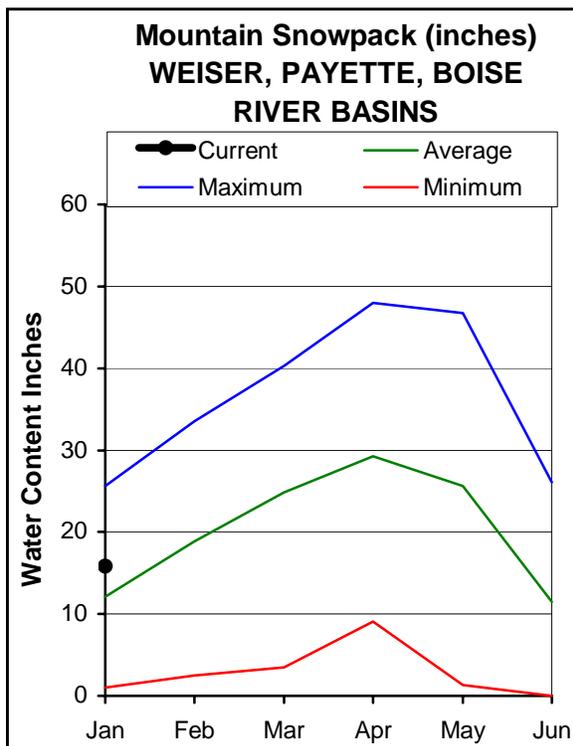
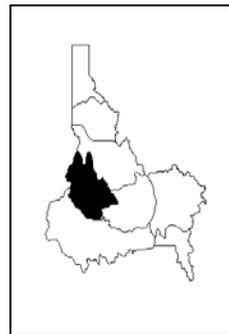
SALMON RIVER BASIN Reservoir Storage (1000 AF) - End of December					SALMON RIVER BASIN Watershed Snowpack Analysis - January 1, 2006			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
					Salmon River ab Salmon	9	167	131
					Lemhi River	6	133	109
					Middle Fork Salmon River	3	196	136
					South Fork Salmon River	3	190	136
					Little Salmon River	4	150	117
					Salmon Basin Total	24	160	122

\* 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.

# WEISER, PAYETTE, BOISE RIVER BASINS JANUARY 1, 2006



## WATER SUPPLY OUTLOOK

The new water year started in October with above normal precipitation and it hasn't let up since. October precipitation was 126% of average, followed by 115% in November, and whopping 176% in December. Deadwood Summit and Trinity Mountain SNOTEL received over 15 inches of precipitation in December, average amounts are 9.5 inches. This isn't a record, in December 1996 Deadwood Summit received 30 inches and Trinity Mountain received 25 inches of precipitation. Warm temperatures resulted in rain falling up to 7,000 feet in late December and thawed the frozen soils that had occurred in the valleys in the first half of December from the colder than normal temperatures. The frozen soils contributed to more runoff and less infiltration of water. Orchard Range SNOTEL site recorded frozen soils at 20 inches deep, temperatures of 20 degrees F eight inches below the surface, and 16 degrees F two inches deep in mid-December. Snowpacks are 120% of average in the Weiser basin, 123% in the Payette, and 129% in the Boise. The Boise basin snow water content has just exceeded last year's peak amount. Reservoir storage increased and is now near average in the Payette system and 83% of average in the Boise system. Streams are forecast at 115-130% of average in these basins. With near average reservoir storage, above average snowpacks, and better soil moisture, water supplies are looking encouraging unless Mother Nature turns the faucet off for the second half of winter.

WEISER, PAYETTE, BOISE RIVER BASINS  
Streamflow Forecasts - January 1, 2006

Forecast Point	Forecast Period	<<----- Drier ----- Future Conditions ----- Wetter ----->>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
WEISER near Weiser (1)	APR-SEP	270	430	505	120	580	740	420
SF PAYETTE at Lowman	APR-JUL	370	455	510	116	565	650	440
	APR-SEP	420	510	570	115	630	720	495
DEADWOOD RESERVOIR Inflow (1,2)	APR-JUL	109	145	161	120	177	213	134
	APR-SEP	119	155	171	120	187	223	142
LAKE FORK PAYETTE near McCall	APR-JUL	83	95	103	121	111	123	85
	APR-SEP	87	99	107	120	115	127	89
NF PAYETTE at Cascade (1,2)	APR-JUL	395	530	595	121	660	795	490
	APR-SEP	445	580	645	122	710	845	530
NF PAYETTE nr Banks (2)	APR-JUL	560	695	785	122	875	1010	645
	APR-SEP	610	755	850	123	945	1090	690
PAYETTE nr Horseshoe Bend (1,2)	APR-JUL	1280	1750	1960	122	2170	2640	1610
	APR-SEP	1430	1910	2130	122	2350	2830	1750
BOISE near Twin Springs (1)	APR-JUL	575	705	765	121	825	955	635
	APR-SEP	575	750	830	120	910	1090	690
SF BOISE at Anderson Ranch Dam (1,2)	APR-JUL	550	650	695	129	740	840	540
	APR-SEP	500	670	745	128	820	990	580
MORES CREEK near Arrowrock Dam	APR-JUL	108	137	156	119	175	205	131
	APR-SEP	112	141	161	118	181	210	137
BOISE near Boise (1,2)	APR-JUN	1100	1440	1590	126	1740	2080	1260
	APR-JUL	1180	1590	1780	126	1970	2380	1410
	APR-SEP	1320	1740	1930	126	2120	2540	1530

WEISER, PAYETTE, BOISE RIVER BASINS  
Reservoir Storage (1000 AF) - End of December

WEISER, PAYETTE, BOISE RIVER BASINS  
Watershed Snowpack Analysis - January 1, 2006

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
MANN CREEK	11.1	3.9	1.6	3.3	Mann Creek	1	199	135
CASCADE	693.2	451.2	463.2	456.4	Weiser River	3	162	120
DEADWOOD	161.9	71.2	73.0	82.5	North Fork Payette	8	166	120
ANDERSON RANCH	450.2	234.3	217.3	296.8	South Fork Payette	5	187	132
ARROWROCK	272.2	160.7	85.7	173.1	Payette Basin Total	14	168	123
LUCKY PEAK	293.2	74.1	84.6	95.5	Middle & North Fork Boise	5	185	136
LAKE LOWELL (DEER FLAT)	165.2	86.4	114.2	98.4	South Fork Boise River	9	168	142
					Mores Creek	5	120	106
					Boise Basin Total	16	156	129
					Canyon Creek	2	145	134

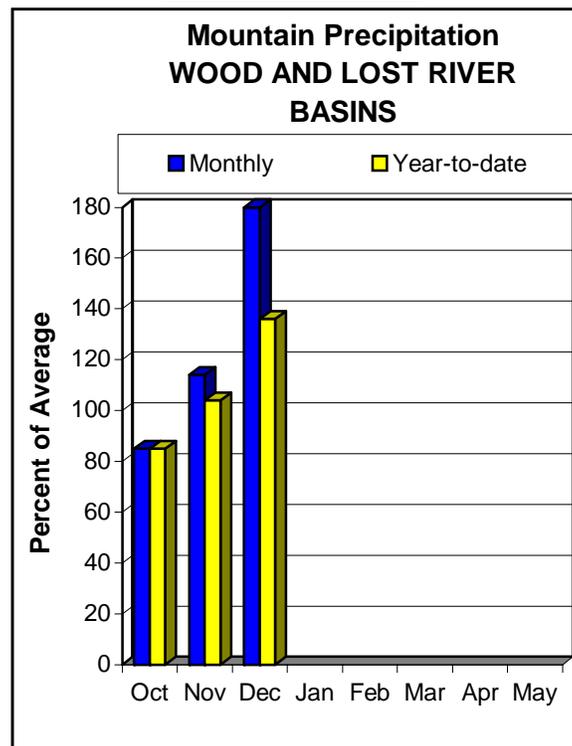
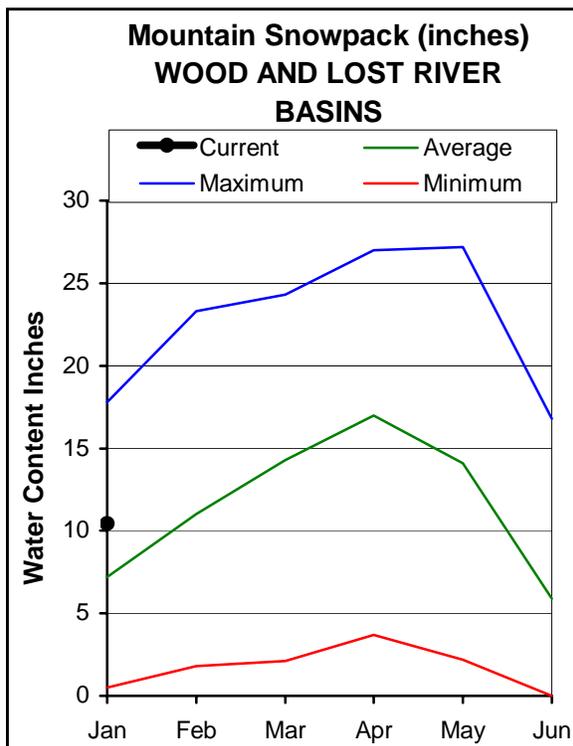
\* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

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.

# WOOD and LOST RIVER BASINS JANUARY 1, 2006



## WATER SUPPLY OUTLOOK

Late December and early January storms continued pumping moisture into Idaho's central mountains.

As a result of the southwest moisture pattern flow, higher mountains and colder temperatures, the central mountains now have the highest snowpacks in the state. As of January 5th, snowpack percentages are 161% of average in the Little Wood basin, 151% in Big Wood and Big Lost basins, and 110% in the Little Lost basin. Precipitation in December was 180% of average and is 136% of average for the water year. December precipitation ranged from near average in the headwaters of the Little Lost basin along the Montana border. Higher precipitation amounts were 250% of average in the Camas Creek and Little Wood basins. Soldier RS SNOTEL site received 8.1 inches in May, 2005 and received 9.7 inches in December 2005. December's amount is the second greatest monthly amount since the station was installed October 1986. The greatest monthly amount was 14.3 inches in December 1996 which led to the New Year's Day flooding. Other SNOTEL sites that received more than 9 inches in December include: Camas Creek, Lost-Wood Divide and Vienna Mine. The abundant precipitation improved soil moisture and increased streams to above average levels. This will help improve the snow melt runoff efficiency later this spring. Reservoir storage increased; Magic

Reservoir is 63% of average, 26% capacity, this is the greatest December 31 amount since 2000. Little Wood and Mackay reservoirs are near average and about half full. Streamflow forecasts are very encouraging and range from near average volumes in the Little Lost River to over 130% of average in Big Wood River and Camas Creek.

WOOD AND LOST RIVER BASINS  
Streamflow Forecasts - January 1, 2006

Forecast Point	Forecast Period	<<----- Drier ----- Future Conditions ----- Wetter ----->>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
BIG WOOD at Hailey (1)	APR-JUL	178	268	315	124	366	492	255
	APR-SEP	204	303	355	122	411	547	290
BIG WOOD ab Magic Reservoir	APR-JUL	111	185	250	132	329	473	190
	APR-SEP	139	215	270	132	325	400	204
CAMAS CREEK near Blaine	APR-JUL	68	106	136	136	170	227	100
	APR-SEP	69	107	137	136	171	228	101
BIG WOOD below Magic Dam (2)	APR-JUL	195	310	385	133	460	575	290
	APR-SEP	210	325	405	133	485	600	305
LITTLE WOOD R ab High Five Ck	MAR-JUL	55	81	102	120	125	163	85
	MAR-SEP	60	88	110	120	134	174	92
	APR-JUL	51	77	97	124	120	157	78
	APR-SEP	56	83	105	124	129	169	85
LITTLE WOOD near Carey (2)	MAR-JUL	64	97	119	124	141	174	96
	MAR-SEP	70	105	128	123	151	186	104
	APR-JUL	58	89	110	126	131	162	87
	APR-SEP	64	97	119	127	141	174	94
BIG LOST at Howell Ranch	APR-JUL	106	160	197	114	233	288	173
	APR-SEP	121	183	225	114	268	328	197
BIG LOST bl Mackay Reservoir	APR-JUL	88	132	162	115	192	238	141
	APR-SEP	107	161	198	115	234	289	172
LITTLE LOST bl Wet Creek	APR-JUL	19.0	26	30	97	34	41	31
	APR-SEP	24	32	38	97	44	52	39

WOOD AND LOST RIVER BASINS  
Reservoir Storage (1000 AF) - End of December

WOOD AND LOST RIVER BASINS  
Watershed Snowpack Analysis - January 1, 2006

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
MAGIC	191.5	49.9	20.0	79.7	Big Wood ab Hailey	8	158	145
LITTLE WOOD	30.0	15.5	10.2	14.1	Camas Creek	5	158	141
MACKAY	44.4	23.5	15.4	23.7	Big Wood Basin Total	13	158	144
					Fish Creek	0	0	0
					Little Wood River	5	159	155
					Big Lost River	5	161	148
					Little Lost River	3	131	107
					Birch-Medicine Lodge Cree	2	120	101
					Camas-Beaver Creeks	4	108	106

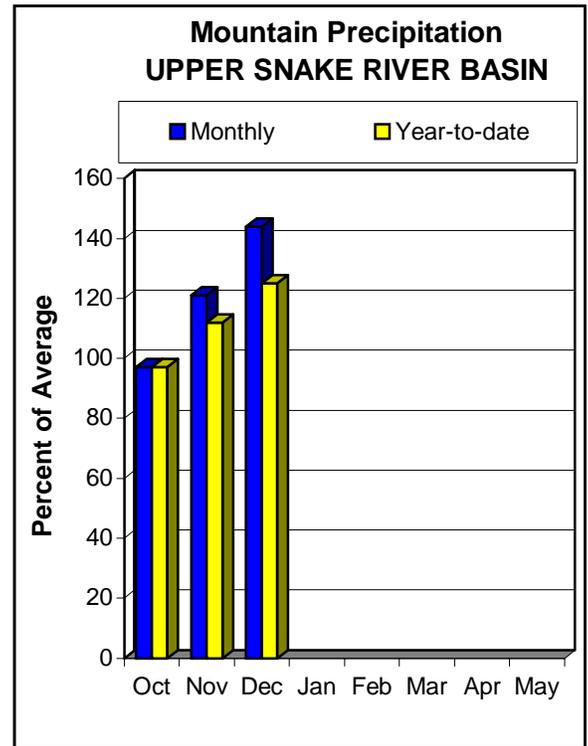
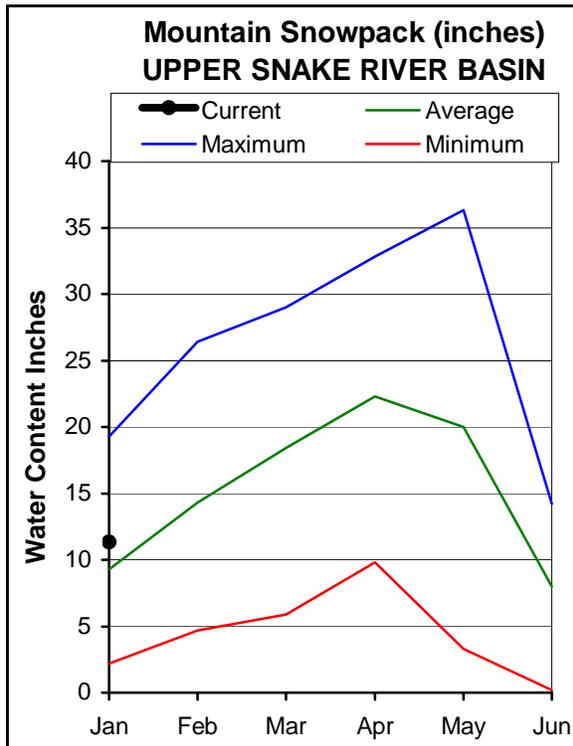
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The average is computed for the 1971-2000 base period.

- (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.

# UPPER SNAKE BASINS

## JANUARY 1, 2006



## WATER SUPPLY OUTLOOK

The water year started with average precipitation in October. November was 121% of average and increased to 144% in December. This brings the water year to date precipitation to 125% of average and is better than last year. As of January 5th, snowpacks are 130% of average for the Henrys Fork and Teton basins. The Snake basin snowpack above Palisades Reservoir is 124% of average while the lower elevation drainages of Willow, Blackfoot and Portneuf basins are 128%. Reservoir storage is also better than last year with Palisades and Jackson Lake having a combined storage of 76% of average, 52% of capacity. American Falls Reservoir is 86% of average, 51% of capacity and Blackfoot 37% of average, 23% of capacity. Streamflow forecasts are encouraging thus far with forecasts at 102-120% of average. The Snake River near Heise is forecast at 108% of average and when combined with current reservoir storage could produce the best water supplies since 1999. However, with more than half the winter still to come, the water supply outlook picture can change for the better or worse as we have seen in recent years.

UPPER SNAKE RIVER BASIN  
Streamflow Forecasts - January 1, 2006

Forecast Point	Forecast Period	<<----- Drier ----- Future Conditions ----- Wetter ----->>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
HENRYS FORK near Ashton (2)	APR-JUL	485	540	580	102	620	675	570
	APR-SEP	670	735	780	102	825	890	765
HENRYS FORK near Rexburg (2)	APR-JUL	1340	1510	1630	105	1750	1920	1560
	APR-SEP	1780	1970	2100	105	2230	2420	2010
FALLS RIVER nr Ashton (2)	APR-JUL	325	380	415	109	450	505	380
	APR-SEP	385	445	490	109	535	595	450
TETON RIVER NEAR DRIGGS	APR-JUL	124	154	175	106	196	227	165
	APR-SEP	158	195	220	105	245	280	210
TETON near St. Anthony	APR-JUL	315	380	425	105	470	535	405
	APR-SEP	380	455	505	105	555	630	480
SNAKE at Flagg Ranch	APR-JUL	405	490	550	117	610	695	470
	APR-SEP	440	535	600	117	665	760	515
SNAKE nr Moran (1,2)	APR-JUL	695	835	900	110	965	1110	815
	APR-SEP	765	925	1000	111	1070	1240	905
PACIFIC CREEK at Moran	APR-JUL	162	188	205	120	220	250	171
	APR-SEP	171	197	215	121	235	260	178
SNAKE ab resv nr Alpine (1,2)	APR-JUL	1910	2360	2570	108	2780	3230	2370
	APR-SEP	2220	2730	2960	108	3190	3700	2730
GREYS above Palisades	APR-JUL	295	355	395	116	435	495	340
	APR-SEP	345	410	455	115	500	565	395
SALT near Etna	APR-JUL	275	345	390	115	435	505	340
	APR-SEP	345	425	480	114	535	615	420
SNAKE nr Irwin (1,2)	APR-JUL	2650	3310	3610	108	3910	4570	3330
	APR-SEP	3110	3850	4190	108	4530	5270	3870
SNAKE near Heise (2)	APR-JUL	3040	3520	3840	108	4160	4640	3560
	APR-SEP	3580	4120	4490	108	4860	5400	4160
WILLOW CREEK nr Ririe	MAR-JUL	44	70	91	103	115	155	88
BLACKFOOT RESV INFLOW	APR-JUN	59	92	115	96	138	171	120
SNAKE nr Blackfoot (1,2)	APR-JUL	3700	4670	5110	111	5550	6520	4600
	APR-SEP	4830	5800	6240	111	6680	7650	5620
PORTNEUF at Topaz	MAR-JUL	73	86	95	107	104	117	89
	MAR-SEP	88	104	114	105	124	140	109
AMERICAN FALLS RESV INFLOW (1,2)	APR-JUL	2010	3200	3740	115	4280	5470	3240
	APR-SEP	2320	3510	4050	115	4590	5780	3510

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

UPPER SNAKE RIVER BASIN  
Watershed Snowpack Analysis - January 1, 2006

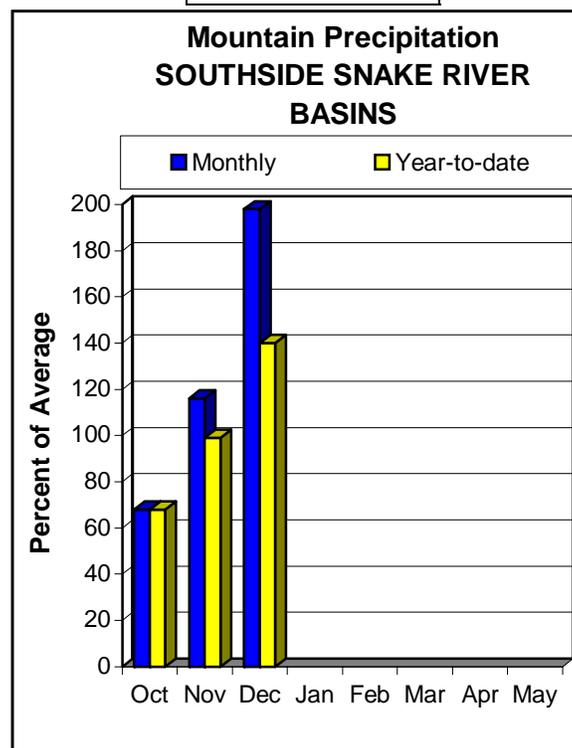
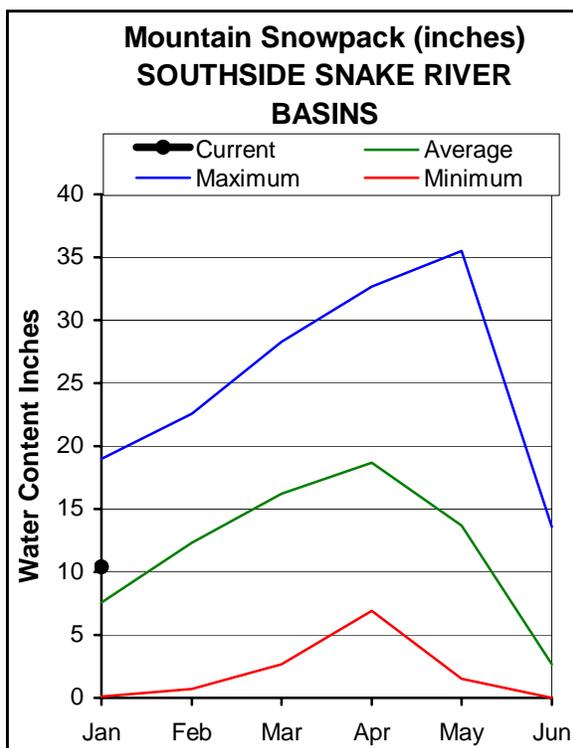
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
HENRYS LAKE	90.4	86.1	64.2	82.5	Henry Fork-Falls River	8	135	127
ISLAND PARK	135.2	83.5	70.5	96.1	Teton River	3	140	114
GRASSY LAKE	15.2	7.6	8.6	11.6	Henry Fork above Rexburg	11	136	124
JACKSON LAKE	847.0	381.8	119.6	481.7	Snake above Jackson Lake	5	150	126
PALISADES	1400.0	779.3	496.2	1036.5	Gros Ventre River	2	134	110
RIRIE	80.5	38.1	30.3	34.5	Hoback River	5	142	109
BLACKFOOT	348.7	79.3	28.0	215.3	Greys River	4	143	112
AMERICAN FALLS	1672.6	852.1	748.5	986.6	Salt River	3	149	119
					Snake above Palisades	17	145	119
					Willow Creek	2	136	117
					Blackfoot River	2	143	123
					Portneuf River	3	118	114
					Snake abv American Falls	28	139	120

\* 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.

# SOUTHSIDE SNAKE RIVER BASINS JANUARY 1, 2006



## WATER SUPPLY OUTLOOK

Precipitation since the water year started continues to improve with each month. October precipitation was 68% of average, November 116% and December was nearly twice average at 198% of average. Late December rainfall washed roads out and produced flooding in Owyhee County. The Owyhee River near Rome rose 10 feet in 5 days, peaking at over 20,000 cfs on January 1 and producing the highest peak flow since 1997. Owyhee Reservoir increased over 150,000 acre-feet in less than two weeks and is now 66% full. These other high desert streams are also flowing above average; soils are saturated and primed for more rain or when the snow melts. The low elevation Owyhee basin snowpack is 100% of average, 46% of its seasonal peak. Snowpacks in the higher elevation basins of Oakley, Salmon Falls and Bruneau are 130-150% of average, 60% of their seasonal peak. Salmon Falls Reservoir is 20% full, 69% of average; Oakley Reservoir is 36% full, 107% of average. Streamflow forecasts call for 115-125% of average runoff. With more water in the reservoirs and snowpacks at 60% of their April 1 seasonal peaks, spring and summer streamflows are looking promising as long as the moisture doesn't shut off completely in the second half of winter.

SOUTHSIDE SNAKE RIVER BASINS  
Streamflow Forecasts - January 1, 2006

Forecast Point	Forecast Period	<<----- Drier ----- Future Conditions ----- Wetter ----->>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
OAKLEY RESERVOIR INFLOW	MAR-JUL	25	33	40	118	47	59	34
	MAR-SEP	27	36	43	116	51	63	37
SALMON FALLS CREEK nr San Jacinto	MAR-JUN	71	90	103	116	116	135	89
	MAR-JUL	73	94	108	116	122	143	93
	MAR-SEP	78	99	114	116	129	150	98
BRUNEAU near Hot Spring	MAR-JUL	190	244	285	121	329	400	235
	MAR-SEP	200	257	300	120	346	420	250
OWYHEE near Gold Creek (2)	MAR-JUL	25	34	40	125	46	55	32
	MAR-SEP	26	34	40	129	46	54	31
OWYHEE nr Owyhee (2)	APR-JUL	49	80	101	123	122	153	82
OWYHEE near Rome	FEB-JUL	347	540	695	106	870	1163	655
	FEB-SEP	363	558	715	106	891	1185	675
OWYHEE RESV INFLOW (2)	FEB-JUL	386	583	740	106	916	1208	700
	FEB-SEP	416	616	775	106	952	1246	730
	APR-SEP	231	355	455	106	567	754	430
SUCCOR CK nr Jordan Valley	FEB-JUL	12.1	19.2	24	124	28	36	19.3
SNAKE RIVER at King Hill (1,2)	APR-JUL	1039	1989	2420	82	2850	3800	2940
SNAKE RIVER near Murphy (1,2)	APR-JUL	1200	2163	2600	84	3035	4000	3090
Reynolds Creek nr Tollgate	MAR-JUL	7.1	10.0	12.3	127	14.8	18.9	9.7
SNAKE RIVER at Weiser (1,2)	APR-JUL	2975	5117	6090	106	7065	9200	5770
SNAKE RIVER at Hells Canyon Dam (1,2)	APR-JUL	3705	6053	7120	110	8190	10530	6490
SNAKE blw Lower Granite Dam (1,2)	APR-JUL	11970	19304	22700	105	26100	33570	21600

SOUTHSIDE SNAKE RIVER BASINS  
Reservoir Storage (1000 AF) - End of December

SOUTHSIDE SNAKE RIVER BASINS  
Watershed Snowpack Analysis - January 1, 2006

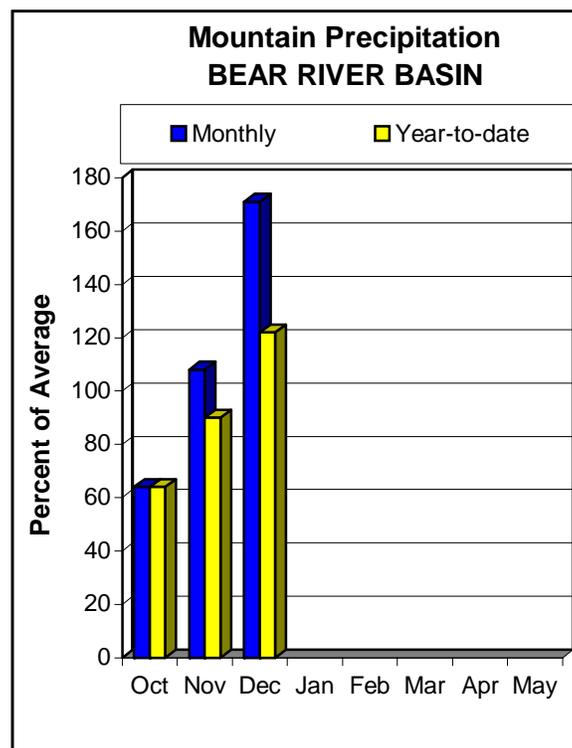
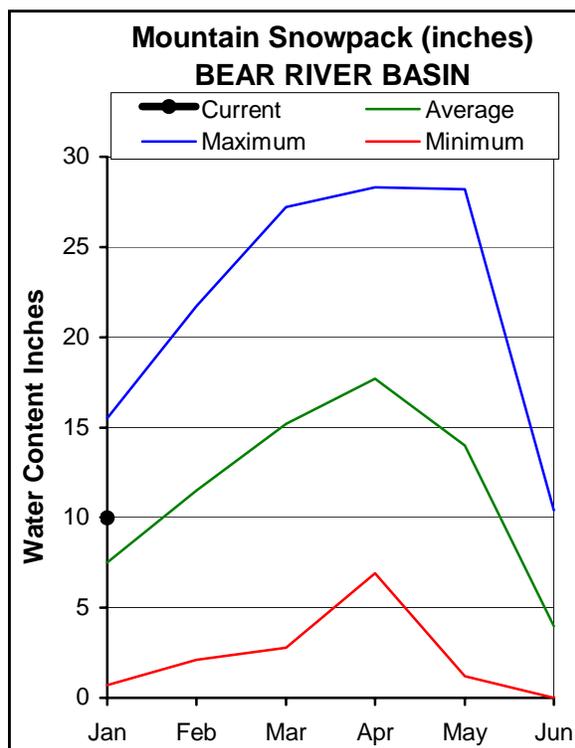
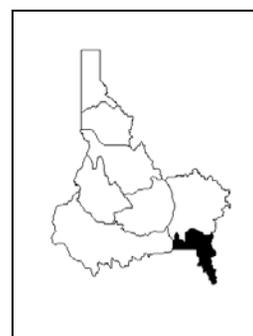
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
OAKLEY	75.6	27.4	10.0	25.7	Raft River	1	173	174
SALMON FALLS	182.6	36.4	15.2	52.6	Goose-Trapper Creeks	3	148	152
WILDHORSE RESERVOIR	71.5	37.5	13.6	37.8	Salmon Falls Creek	6	136	131
OWYHEE	715.0	473.9	163.0	398.1	Bruneau River	5	149	134
BROWNLEE	1420.0	1420.7	1373.4	1303.0	Reynolds Creek	0	0	0
					Owyhee Basin Total	8	149	100

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

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# BEAR RIVER BASIN JANUARY 1, 2006



## WATER SUPPLY OUTLOOK

Precipitation in October was only 64% of average, November was near average and December was well above average at 171%. Water year to date precipitation is 122% of average and is slightly better than last year at this time. Snowpacks range from 125% of average for Smith and Thomas forks to 157% for the Cub River. Overall, the Bear River snowpack is 131% of average; last year the snow was 108% of average. A year ago, storage in Bear Lake was 7% of capacity; today it is 26% of capacity, 41% of average. Montpelier Reservoir is 68% full, 159% of average. Streams are forecast near average or better for the April-September period. Water supplies are looking encouraging at this time, but can change with more than half the winter still to come. Last June we wrote 'Hopefully, the dry years are behind us and the wet cycle will continue for years', thus far the wet cycle is continuing as the Bear River basin had always been one of the dry areas in the state since the drought started in 2000.

BEAR RIVER BASIN  
Streamflow Forecasts - January 1, 2006

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
Bear River nr UT-WY State Line	APR-JUL	85	108	124	110	140	163	113
	APR-SEP	92	118	136	109	154	180	125
Bear River ab Reservoir nr Woodruff	APR-JUL	88	125	150	110	175	210	136
	APR-SEP	94	132	157	111	182	221	142
Big Creek nr Randolph	APR-JUL	1.5	3.2	4.8	98	6.7	10.1	4.9
Smiths Fork nr Border	APR-JUL	83	105	120	117	135	157	103
	APR-SEP	96	121	138	114	155	180	121
Bear River at Stewart Dam	APR-JUL	153	216	265	113	319	408	234
	APR-SEP	173	242	295	113	354	450	262
Little Bear River at Paradise	APR-JUL	25	38	48	104	60	79	46
Logan R Abv State Dam Nr Logan	APR-JUL	83	113	136	108	161	202	126
Blacksmith Fk Abv Up&L Dam Nr Hyrum	APR-JUL	31	45	55	115	67	86	48

BEAR RIVER BASIN Reservoir Storage (1000 AF) - End of December					BEAR RIVER BASIN Watershed Snowpack Analysis - January 1, 2006			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
BEAR LAKE	1421.0	370.8	95.7	907.5	Smiths & Thomas Forks	3	129	125
MONTPELIER CREEK	4.0	2.7	1.5	1.7	Bear River ab WY-ID line	10	116	131
					Montpelier Creek	1	241	144
					Mink Creek	1	133	144
					Cub River	1	143	157
					Bear River ab ID-UT line	15	119	131
					Malad River	1	124	139

\* 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.

**Streamflow Adjustment List for All Forecasts Published in Idaho Water Supply Outlook Report:** streamflow forecasts are projections of runoff volumes that would occur without influences from upstream reservoirs or diversions. These values are referred to as natural, unregulated or adjusted flows. To make these adjustments, changes in reservoir storage, diversions, and inter-basin transfers are added or subtracted from the observed (actual) streamflow volumes. The following list documents the adjustments made for each forecast point. **(Revised Dec. 2005).**

### **Panhandle River Basins**

Kootenai R at Leonia, ID  
+ Lake Koocanusa (Storage Change)  
Boundary Ck nr Porthill, ID – No Corrections  
Moyie R at Eastport, ID – No Corrections  
Smith Creek nr Porthill, ID – No Corrections  
Clark Fork R at Whitehorse Rapids, ID  
+ Hungry Horse (Storage Change)  
+ Flathead Lake (Storage Change)  
+ Noxon Rapids Resv (Storage Change)  
Pend Oreille Lake Inflow, ID  
+ Pend Oreille R at Newport, WA  
+ Hungry Horse (Storage Change)  
+ Flathead Lake (Storage Change)  
+ Noxon Rapids (Storage Change)  
+ Pend Oreille Lake (Storage Change)  
+ Priest Lake (Storage Change)  
Priest R nr Priest R, ID  
+ Priest Lake (Storage Change)  
NF Coeur d'Alene R at Enaville, ID - No Corrections  
St. Joe R at Calder, ID - No Corrections  
Spokane R nr Post Falls, ID  
+ Coeur d'Alene Lake (Storage Change)  
Spokane R at Long Lake, WA  
+ Coeur d'Alene Lake (Storage Change)  
+ Long Lake, WA (Storage Change)

### **Clearwater River Basin**

Selway R nr Lowell - No Corrections  
Lochsa R nr Lowell - No Corrections  
Dworshak Resv Inflow, ID  
+ Clearwater R nr Peck, ID  
- Clearwater R at Orofino, ID  
+ Dworshak Resv (Storage Change)  
Clearwater R at Orofino, ID - No Corrections  
Clearwater R at Spalding, ID  
+ Dworshak Resv (Storage Change)

### **Salmon River Basin**

Salmon R at Salmon, ID - No Corrections  
Lemhi R nr Lemhi, ID – No Corrections  
MF Salmon R at MF Lodge, ID – No Corrections  
Salmon R at White Bird, ID - No Corrections

### **Weiser, Payette, Boise River Basins**

Weiser R nr Weiser, ID - No Corrections  
SF Payette R at Lowman, ID - No Corrections  
Deadwood Resv Inflow, ID  
+ Deadwood R blw Deadwood Resv nr Lowman  
+ Deadwood Resv (Storage Change)  
Lake Fork Payette R nr Mccall, ID – No Corrections  
NF Payette R at Cascade, ID  
+ Cascade Resv (Storage Change)  
+ Payette Lake (Storage Change)

NF Payette R nr Banks, ID  
+ Cascade Resv (Storage Change)  
+ Payette Lake (Storage Change)  
Payette R nr Horseshoe Bend, ID  
+ Cascade Resv (Storage Change)  
+ Deadwood Resv (Storage Change)  
+ Payette Lake (Storage Change)  
Boise R nr Twin Springs, ID - No Corrections  
SF Boise R at Anderson Ranch Dam, ID  
+ Anderson Ranch Resv (Storage Change)  
Boise R nr Boise, ID  
+ Anderson Ranch Resv (Storage Change)  
+ Arrowrock Resv (Storage Change)  
+ Lucky Peak Resv (Storage Change)

### **Wood and Lost River Basins**

Big Wood R at Hailey, ID - No Corrections  
Big Wood R abv Magic Resv, ID  
+ Big Wood R nr Bellevue, ID  
+ Willow Ck  
Camas Ck nr Blaine – No Corrections  
Big Wood R blw Magic Dam nr Richfield, ID  
+ Magic Resv (Storage Change)  
Little Wood R abv High Five Ck, ID – No Corrections  
Little Wood R nr Carey, ID  
+ Little Wood Resv (Storage Change)  
Big Lost R at Howell Ranch, ID - No Corrections  
Big Lost R blw Mackay Resv nr Mackay, ID  
+ Mackay Resv (Storage Change)  
Little Lost R blw Wet Ck nr Howe, ID - No Corrections  
**Upper Snake River Basin**  
Henrys Fork nr Ashton, ID  
+ Henrys Lake (Storage Change)  
+ Island Park Resv (Storage Change)  
Henrys Fork nr Rexburg, ID  
+ Henrys Lake (Storage Change)  
+ Island Park Resv (Storage Change)  
+ Grassy Lake (Storage Change)  
+ Diversions from Henrys Fk btw Ashton to St. Anthony, ID  
+ Diversions from Henrys Fk btw St. Anthony to Rexburg, ID  
+ Diversions from Falls R abv nr Ashton, ID  
+ Diversions from Falls R nr Ashton to Chester, ID  
Falls R nr Ashton, ID  
+ Grassy Lake (Storage Change)  
+ Diversions from Falls R abv nr Ashton, ID  
Teton R nr Driggs, ID - No Corrections  
Teton R nr St. Anthony, ID  
- Cross Cut Canal into Teton R  
+ Sum of Diversions for Teton R abv St. Anthony, ID  
Snake R nr Moran, WY  
+ Jackson Lake (Storage Change)  
Pacific Ck at Moran, WY – No Corrections  
Snake R abv Palisades, WY  
+ Jackson Lake (Storage Change)

Greys R abv Palisades, WY – No Corrections  
 Salt R abv Palisades, WY – No Corrections  
 Snake R nr Irwin, ID  
   + Jackson Lake (Storage Change)  
   + Palisades Resv (Storage Change)  
 Snake R nr Heise, ID  
   + Jackson Lake (Storage Change)  
   + Palisades Resv (Storage Change)  
 Willow Ck nr Ririe, ID  
   + Ririe Resv (Storage Change)  
 Blackfoot Reservoir Inflow, ID  
   + Blackfoot Reservoir releases  
   + Blackfoot Resv (Storage Change)  
 Snake R nr Blackfoot, ID  
   + Palisades Resv (Storage Change)  
   + Jackson Lake (Storage Change)  
   + Diversions from Snake R btw Heise and Shelly  
   + Diversions from Snake R btw Shelly and Blackfoot  
 Portneuf R at Topaz, ID - No Corrections  
 American Falls Resv Inflow, ID  
   + Snake River at Neeley  
   + All Corrections made for Henrys Fk nr Rexburg, ID  
   + Jackson Lake (Storage Change)  
   + Palisades Resv (Storage Change)  
   + Diversions from Snake R btw Heise and Shelly  
   + Diversions from Snake R btw Shelly and Blackfoot

**Southside Snake River Basins**

Oakley Resv Inflow, ID  
   + Goose Ck abv Trapper Ck  
   + Trapper Ck nr Oakley  
 Salmon Falls Ck nr San Jacinto, NV - No Corrections  
 Bruneau R nr Hot Springs, ID - No Corrections  
 Owyhee R nr Gold Ck, NV  
   + Wildhorse Resv (Storage Change)  
 Owyhee R nr Owyhee, NV  
   + Wildhorse Resv (Storage Change)  
 Owyhee R nr Rome, OR – No Corrections  
 Owyhee Resv Inflow, OR  
   + Owyhee R blw Owyhee Dam, OR  
   + Owyhee Resv (Storage Change)  
   + Diversions to North and South Canals  
 Succor Ck nr Jordan Valley, OR - No Corrections  
 Snake R at King Hill, ID - No Corrections  
 Snake R nr Murphy, ID - No Corrections  
 Snake R at Weiser, ID - No Corrections  
 Snake R at Hells Canyon Dam, ID  
   + Brownlee Resv (Storage Change)

**Bear River Basin**

Bear R nr UT-WY Stateline, UT – No Corrections  
 Bear R abv Resv nr Woodruff, UT – No Corrections  
 Smiths Fork nr Border, WY - No Corrections  
 Bear R blw Stewart Dam nr Montpelier, ID  
   + Bear R blw Stewart Dam  
   + Rainbow Inlet Canal

**Reservoir Capacity Definitions** (Units in 1,000 Acre-Feet, KAF)

Different agencies use various definitions when reporting reservoir capacity and contents. Reservoir storage terms include dead, inactive, active, and surcharge storage. This table lists these volumes for each reservoir, and defines the storage volumes NRCS uses when reporting capacity and current reservoir storage. In most cases, NRCS reports usable storage, which includes active and inactive storage. **(Revised Dec. 2005)**

<b>Basin/ Reservoir</b>	<b>Dead Storage</b>	<b>Inactive Storage</b>	<b>Active Storage</b>	<b>Surcharge Storage</b>	<b>NRCS Capacity</b>	<b>NRCS Capacity Includes</b>
<b><u>Panhandle Region</u></b>						
Hungry Horse	39.73	--	3451.00	--	3451.0	Active
Flathead Lake	Unknown	--	1791.00	--	1791.0	Active
Noxon Rapids	Unknown	--	335.00	--	335.0	Active
Pend Oreille	406.20	112.40	1042.70	--	1561.3	Dead+Inactive+Active
Coeur d'Alene	--	13.50	225.00	--	238.5	Inactive+Active
Priest Lake	20.00	28.00	71.30	--	119.3	Dead+Inactive+Active
<b><u>Clearwater Basin</u></b>						
Dworshak	--	1452.00	2016.00	--	3468.0	Inactive+Active
<b><u>Weiser/Boise/Payette Basins</u></b>						
Mann Creek	1.61	0.24	11.10	--	11.1	Active
Cascade	--	46.70	646.50	--	693.2	Inactive+Active
Deadwood	--	--	161.90	--	161.9	Active
Anderson Ranch	24.90	37.00	413.10	--	450.1	Inactive+Active
Arrowrock	--	--	272.20	--	272.2	Active
Lucky Peak	--	28.80	264.40	13.80	293.2	Inactive+Active
Lake Lowell	7.90	5.80	159.40	--	165.2	Inactive+Active
<b><u>Wood/Lost Basins</u></b>						
Magic	Unknown	--	191.50	--	191.5	Active
Little Wood	--	--	30.00	--	30.0	Active
Mackay	0.13	--	44.37	--	44.4	Active
<b><u>Upper Snake Basin</u></b>						
Henrys Lake	--	--	90.40	--	90.4	Active
Island Park	0.40	--	127.30	7.90	135.2	Active+Surcharge
Grassy Lake	--	--	15.18	--	15.2	Active
Jackson Lake	Unknown	--	847.00	--	847.0	Active
Palisades	44.10	155.50	1200.00	--	1400.0	Dead+Inactive+Active
Ririe	4.00	6.00	80.54	10.00	80.5	Active
Blackfoot	--	--	348.73	--	348.7	Active
American Falls	--	--	1672.60	--	1672.6	Active
<b><u>Southside Snake Basins</u></b>						
Oakley	0	--	75.60	--	75.6	Active
Salmon Falls	48.00	5.0	182.65	--	182.6	Active+Inactive
Wildhorse	--	--	71.50	--	71.5	Active
Owyhee	406.83	--	715.00	--	715.0	Active
Brownlee	0.45	444.70	975.30	--	1420.0	Inactive+Active
<b><u>Bear River Basin</u></b>						
Bear Lake	5.0MAF	119.0	1302.00	--	1421.0	Active+Inactive: includes 119 that can be released
Montpelier Creek	0.21	--	3.84	--	4.0	Dead+Active

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