



United States
Department of
Agriculture



Natural Resources
Conservation
Service

Oregon Basin Outlook Report

May 1, 2008



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General Outlook

May 1, 2008

SUMMARY

Summer seems to be far off as we observe record snowpacks on May 1. Snow continued to accumulate in many areas of Oregon in April, and the melt was delayed throughout the state. Cooler than normal temperatures extended from the end of March through most of April. While April precipitation was generally below normal, the colder temperatures meant that the precipitation that did fall arrived as snow in many areas.

Summer streamflow forecasts reflect the moisture values stored in the snowpack on May 1. Reservoirs throughout the state are awaiting runoff in order to refill. Runoff has been delayed by the late snowmelt.

Water users in Oregon can generally anticipate above normal supplies this coming season. Basins that hold low elevation snow this late in the season are at risk of rapid melt and localized flooding if temperatures rise and/or warm precipitation events arrive.

SNOWPACK

Record snow water was recorded at 19 Oregon SNOTEL sites along the Cascade crest on May 1. Additionally, new records were set this water year for the peak snowpack at a similar number of SNOTEL sites. For the sites with record peak snowpacks, the date of the maximum snow pack was 20-60 days later than normal.

On May 1, the Hood, Miles Creeks and Lower Deschutes basin had the greatest amount of snow remaining in Oregon. Lake County recorded the least amount of snow in Oregon for May 1, although snowpacks there are near average.

PRECIPITATION

Precipitation for the month of April was below normal in most of the state. In the basins whose headwaters lie along the Cascade crest, April precipitation was above normal. April precipitation ranged from 135 percent of average for the Hood, Miles Creeks and Lower Deschutes basin to 48 percent of average for Lake County. Since the beginning of the water year precipitation in Oregon has ranged from 119 percent of average in the Hood, Miles Creeks and Lower Deschutes basin to 86 percent of average in Lake County.

RESERVOIRS

The May 1 storage at 27 major Oregon reservoirs analyzed in this publication was 83 percent of normal. A total of 2,175,200 acre feet of water was stored on April 1, an increase of 355,400 acre feet over last month. Last year at this time, these reservoirs stored 2,486,300 acre feet of water.

STREAMFLOW

Summer streamflow forecasts throughout Oregon will benefit from the late season delay in snowmelt. May through September streamflow forecasts are expected to be near to well above average. The table below summarizes key streamflow forecast points in Oregon.

STREAM	PERIOD	PERCENT OF AVERAGE
Owyhee Net Inflow	June-July	31
Grande Ronde at La Grande	June-September	41
Umatilla at Pendleton	June- September	45
Deschutes at Benham Falls	June- September	96
Willamette MF near Oakridge	June-October	84
Rogue at Raygold	June-September	77
Upper Klamath L. Net Inflow	June-September	52
Silvies near Burns	May- September	39

Some of these forecasts assume that normal weather conditions will occur from now to the end of the forecast period.

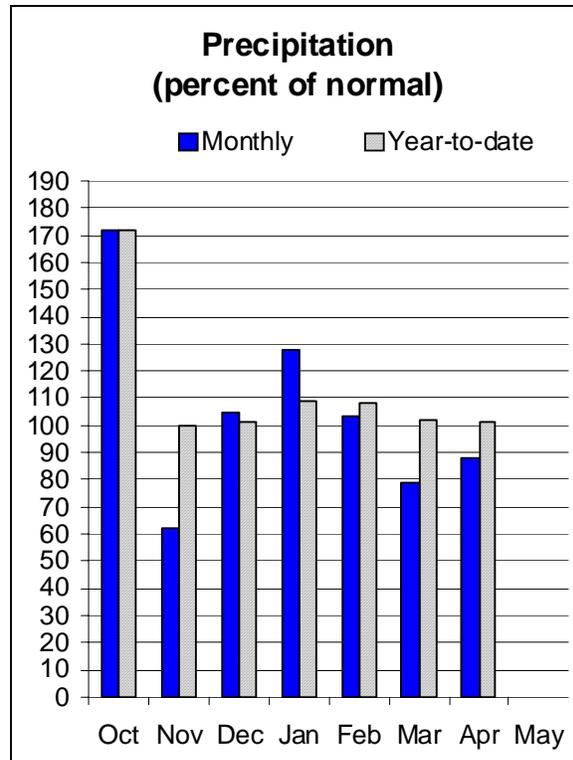
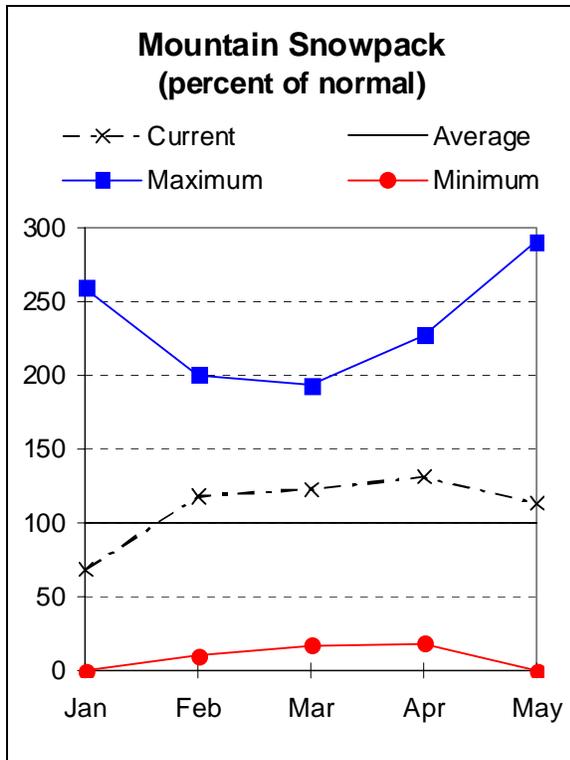
The forecasts in this bulletin are a result of coordinated activity between the Natural Resources Conservation Service and the National Weather Service as an effort to provide the best possible service to water users.

This report contains data furnished by the Oregon Department of Water Resources, U.S. Geological Survey, NOAA National Weather Service and other cooperators.



Owyhee and Malheur Basins

May 1, 2008



Water Supply Outlook

March and April precipitation were below normal in the Owyhee and Malheur basins. The February through May snowpack has been consistently above average however. Colder temperatures have delayed spring snowmelt. May 1 snow water content in the basin was slightly above average. Total precipitation since the beginning of the water year has been near average.

At the end of April, four reservoirs in the Owyhee and Malheur held only 68 percent of their average storage or 57 percent of their capacity.

The May through September streamflow for the Owyhee Reservoir Inflow is forecast to be 86 percent of average. Malheur basin forecasts range from 121 percent of average for the North Fork Malheur at Beulah to 132 percent of average for the Malheur near Drewsey. Water users in the Owyhee basin can expect below to near average water supplies this coming season. Malheur basin water users can expect above average water supplies.

For more information contact your local Natural Resources Conservation Service Office:
Ontario - (541) 889-7637

Or visit: <http://www.wcc.nrcs.usda.gov/cgibin/bor.pl>

OWYHEE AND MALHEUR BASINS
Streamflow Forecasts - May 1, 2008

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)				
		90%		70%		50%			30%		10%	
		(1000AF)	(1000AF)	(1000AF)	(1000AF)	(1000AF)	(1000AF)		(1000AF)	(1000AF)	(1000AF)	(1000AF)
		Chance Of Exceeding *										
		(1000AF) (% AVG.)										
Malheur R nr Drewsey	MAY-JUL	26	37	45	129	54	69	35				
	MAY-SEP	29	40	49	132	58	74	37				
NF Malheur R at Beulah	MAY-JUL	33	40	45	122	50	59	37				
	MAY-SEP	38	46	52	121	58	68	43				
Owyhee Reservoir Inflow (2)	MAY-JUL	9.0	95	197	88	300	450	225				
	MAY-SEP	5.0	112	220	86	330	485	255				
Owyhee R nr Rome	MAY-JUL	91	148	194	92	245	335	210				
	MAY-SEP	108	167	215	94	270	360	230				

OWYHEE AND MALHEUR BASINS
Reservoir Storage (1000 AF) - End of April

OWYHEE AND MALHEUR BASINS
Watershed Snowpack Analysis - May 1, 2008

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
BEULAH RES	60.0	38.9	47.5	51.2	Owyhee River	7	2464	120
BULLY CREEK	30.0	20.4	24.0	25.6	Malheur	3	0	188
OWYHEE	715.0	452.4	554.9	613.6	Jordan Creek	1	0	173
WARMSPRINGS	191.0	58.5	123.6	149.9	Bully Creek	0	0	0

* 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.

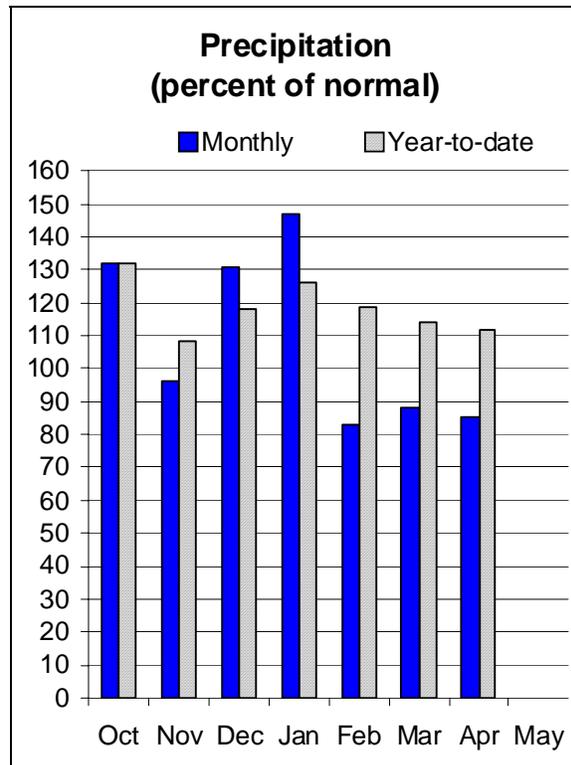
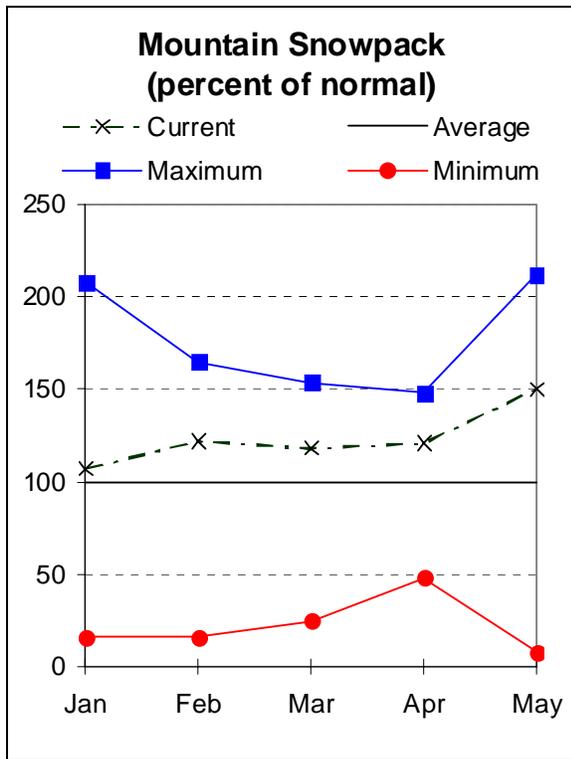
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Burnt, Powder, Grand Ronde, and Imnaha Basins

May 1, 2008



Water Supply Outlook

February, March and April precipitation were below normal in the Burnt, Powder, Pine, Grande Ronde and Imnaha basins. All winter, the snowpack has been above average and colder temperatures have delayed spring snowmelt. May 1 snow water content in the basin was well above average. Total precipitation since the beginning of the water year has been slightly above average.

Streamflow forecasts in the Burnt, Powder, Pine, Grande Ronde and Imnaha basin range from 114 percent of average for Pine Creek near Oxbow to 155 percent of average for the Powder near Sumpter. Water users can expect above average supplies this coming season.

For more information contact your local Natural Resources Conservation Service Office:
 Enterprise- (541) 426-4588; Baker City - (541) 523-7121; LaGrande - (541) 963-4178
 Or visit: <http://www.wcc.nrcs.usda.gov/cgibin/bor.pl>

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BURNT, POWDER, PINE, GRANDE RONDE AND IMNAHA BASINS
Streamflow Forecasts - May 1, 2008

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Forecast Point	Forecast Period	Future Conditions				Wetter		30-Yr Avg. (1000AF)
		<<===== Drier =====>>		Chance Of Exceeding *		=====		
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
Bear Ck nr Wallowa	MAY-SEP	51	60	66	118	72	81	56
Burnt R nr Hereford	MAY-JUL	16.3	22	26	150	31	38	17.3
	MAY-SEP	18.8	25	29	152	34	41	19.1
Catherine Ck nr Union	MAY-JUL	45	51	55	112	59	66	49
	MAY-SEP	50	56	61	115	66	73	53
Deer Ck nr Sumpster	MAY-JUL	12.2	15.0	17.0	162	19.2	23	10.5
Grande Ronde R at La Grande	MAY-JUL	87	115	136	128	159	197	106
	MAY-SEP	91	121	144	129	169	210	112
Grande Ronde R at Troy	MAY-JUL	935	1100	1180	130	1260	1420	910
	MAY-SEP	1040	1230	1310	130	1390	1580	1010
Imnaha R at Imnaha	MAY-JUL	191	225	250	116	275	310	215
	MAY-SEP	220	255	280	117	305	340	240
Lostine R nr Lostine	MAY-JUL	99	112	121	118	130	145	103
	MAY-SEP	106	121	131	117	142	158	112
Pine Ck nr Oxbow	MAY-JUL	95	112	123	114	134	151	108
	MAY-SEP	102	119	130	114	141	158	114
Powder R nr Sumpster	MAY-JUL	43	52	58	142	65	76	41
	MAY-SEP	48	58	65	155	73	85	42
Wolf Ck Reservoir Inflow (2)	MAY-JUN	9.8	12.3	14.0	136	15.7	18.2	10.3

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BURNT, POWDER, PINE, GRANDE RONDE AND IMNAHA BASINS Reservoir Storage (1000 AF) - End of April					BURNT, POWDER, PINE, GRANDE RONDE AND IMNAHA BASINS Watershed Snowpack Analysis - May 1, 2008			
Reservoir	Usable Capacity	*** Usable Storage This Year	Last Year	*** Avg	Watershed	Number of Data Sites	This Year as % of Last Yr	% of Average
PHILLIPS LAKE	73.5	30.2	50.1	59.9	Grande Ronde ab LaGrande	6	357	186
THIEF VALLEY	17.4	13.5	12.2	17.5	Powder River	6	484	154
UNITY	25.2	23.9	24.7	24.3	Wallowa, Imnaha, Catherine	5	236	129
WALLOWA LAKE	37.5	11.1	16.8	22.6	Burnt River	3	0	233
WOLF CREEK	10.4	4.5	6.2	9.4				

* 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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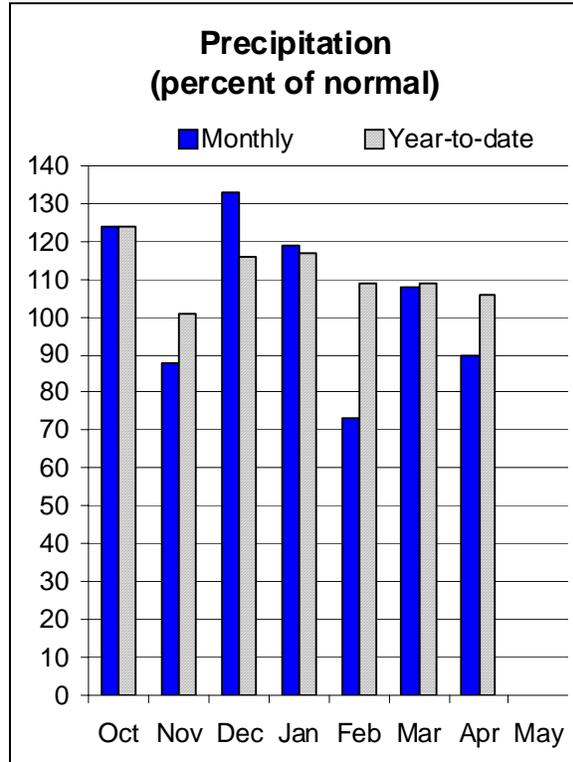
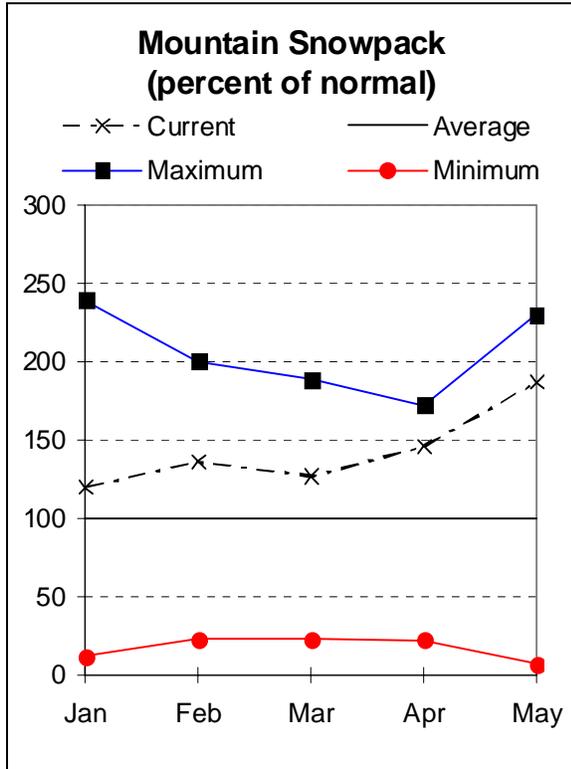
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Umatilla, Walla Walla, Willow Rock, and Lower John Day Basins

May 1, 2008



Water Supply Outlook

April precipitation was below normal in the Umatilla, Walla Walla, Willow, Rock and Lower John Day basin. All winter, the snowpack has been above average and colder temperatures have delayed spring snowmelt. May 1 snow water content in the basin was well above average. Total precipitation since the beginning of the water year has been slightly above average.

May 1 storage at Cold Springs and McKay reservoirs was 79 percent of average or 67 percent of capacity. May through September streamflow forecasts in the Umatilla, Walla Walla, Willow, Rock and Lower John Day basin range from 100 percent of average for McKay Creek near Pilot Rock to 121 percent of average for the Umatilla above Meacham Creek near Gibbon. Elsewhere in the basin, the South Fork Walla Walla near Milton-Freewater is forecast to be 112 percent of average for the May through September period. Water users in the basin should expect a near to above average water supply this coming season.

For more information contact your local Natural Resources Conservation Service Office:
 Pendleton - (541) 278-8049; Heppner - (541) 676-5021; Condon - (541) 384-2671
 Or visit: <http://www.wcc.nrcs.usda.gov/cgibin/bor.pl>

UMATILLA, WALLA WALLA, WILLOW, ROCK AND LOWER JOHN DAY BASINS
Streamflow Forecasts - May 1, 2008

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>					30-Yr Avg. (1000AF)					
		90% (1000AF)		70% (1000AF)		50% (1000AF) (% AVG.)		30% (1000AF)		10% (1000AF)		
		Chance Of Exceeding *										
Butter Ck nr Pine City	MAY-JUL	1.5	3.5	4.8	102	6.1	8.1	4.7				
	MAY-SEP	2.4	4.4	5.7	104	7.0	9.0	5.5				
McKay Ck nr Pilot Rock	MAY-SEP	0.6	7.6	12.4	100	17.2	24	12.4				
Rhea Ck nr Heppner	MAY-JUL	1.1	2.9	4.1	121	5.3	7.1	3.4				
Umatilla R ab Meacham Ck nr Gibbon	MAY-JUL	34	44	51	121	58	68	42				
	MAY-SEP	41	51	58	121	65	75	48				
Umatilla R at Pendleton	MAY-JUL	51	76	94	121	112	137	78				
	MAY-SEP	57	83	101	120	119	145	84				
SF Walla Walla R nr Milton-Freewater	MAY-SEP	47	53	57	112	61	67	51				
Willow Ck ab Willow Ck Lake nr Heppn	MAY-JUL	1.5	3.2	4.3	98	5.4	7.2	4.4				

UMATILLA, WALLA WALLA, WILLOW, ROCK AND LOWER JOHN DAY BASINS					UMATILLA, WALLA WALLA, WILLOW, ROCK AND LOWER JOHN DAY BASINS			
Reservoir Storage (1000 AF) - End of April					Watershed Snowpack Analysis - May 1, 2008			
Reservoir	Usable Capacity	*** Usable Storage This Year	*** Usable Storage Last Year	*** Avg	Watershed	Number of Data Sites	This Year as % of Last Yr	% of Average
COLD SPRINGS	50.0	27.6	32.7	42.7	Walla Walla River	3	385	204
MCKAY	73.8	55.2	59.5	61.6	Umatilla River	7	439	193
WILLOW CREEK	1.8	2.1	1.9	---	McKay Creek	4	0	169

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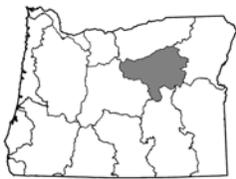
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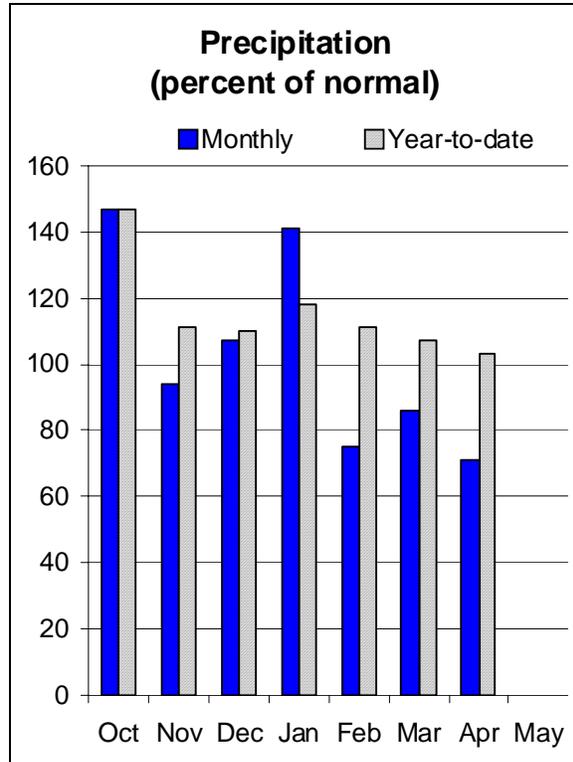
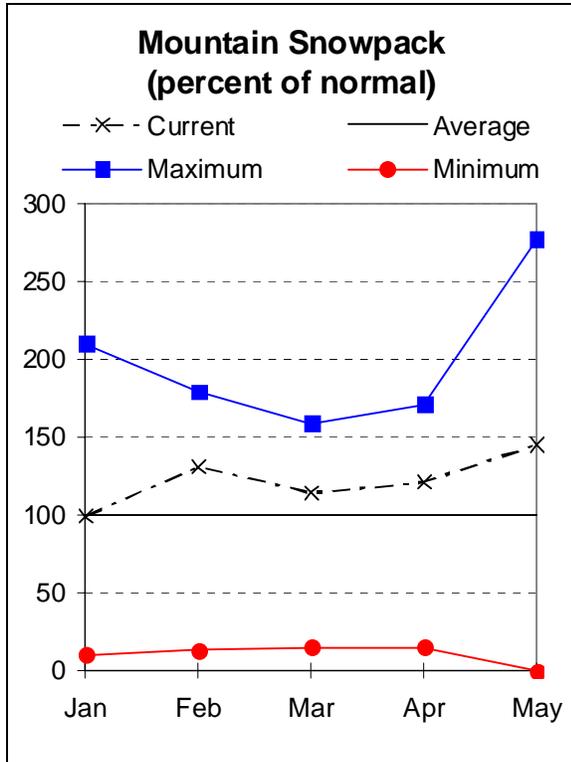
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Upper John Day Basin

May 1, 2008



Water Supply Outlook

February, March and April precipitation was below normal in the Upper John Day basin. All winter, the snowpack has been near to above average and colder temperatures have delayed spring snowmelt. May 1 snow water content in the basin was above average. Total precipitation since the beginning of the water year has been slightly above average.

May through September streamflow forecasts in the Upper John Day range from 100 percent of average for Camas Creek near Ukiah to 115 percent of average for the Middle Fork John Day at Ritter and the North Fork John Day at Monument. Water users in the Upper John Day can expect near to above average streamflows this coming summer.

For more information contact your local Natural Resources Conservation Service Office:
John Day - (541) 575-0135

Or visit: <http://www.wcc.nrcs.usda.gov/cgibin/bor.pl>

UPPER JOHN DAY BASIN
Streamflow Forecasts - May 1, 2008

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>				30-Yr Avg. (1000AF)		
		90% (1000AF)	70% (1000AF)	Chance Of Exceeding * (1000AF) (% AVG.)			30% (1000AF)	10% (1000AF)
Camas Ck nr Ukiah	MAY-JUL	9.0	14.6	18.4	100	22	28	18.4
	MAY-SEP	9.7	15.4	19.2	100	23	29	19.2
MF John Day R at Ritter	MAY-JUL	58	77	89	114	101	120	78
	MAY-SEP	63	82	95	115	108	127	83
NF John Day R at Monument	MAY-JUL	285	370	430	115	490	575	375
	MAY-SEP	305	390	450	115	510	595	390
Mountain Ck nr Mitchell	MAY-JUL	1.5	2.3	2.8	104	3.3	4.1	2.7
	MAY-SEP	1.6	2.4	3.0	106	3.6	4.4	2.8
Strawberry Ck nr Prairie City	MAY-JUL	5.6	6.8	7.6	115	8.4	9.6	6.6
	MAY-SEP	6.3	7.6	8.4	115	9.2	10.5	7.3

UPPER JOHN DAY BASIN
Reservoir Storage (1000 AF) - End of April

UPPER JOHN DAY BASIN
Watershed Snowpack Analysis - May 1, 2008

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
					John Day, North Fork	8	440	142
					John Day above Dayville	4	0	186

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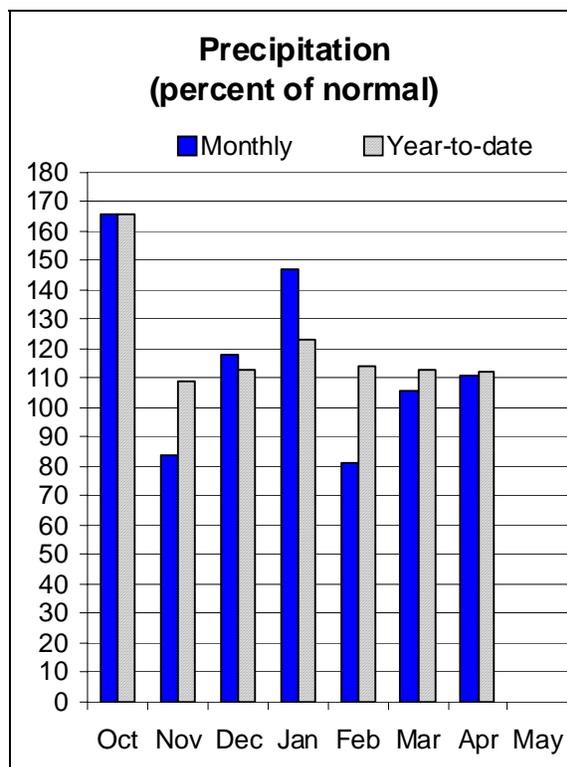
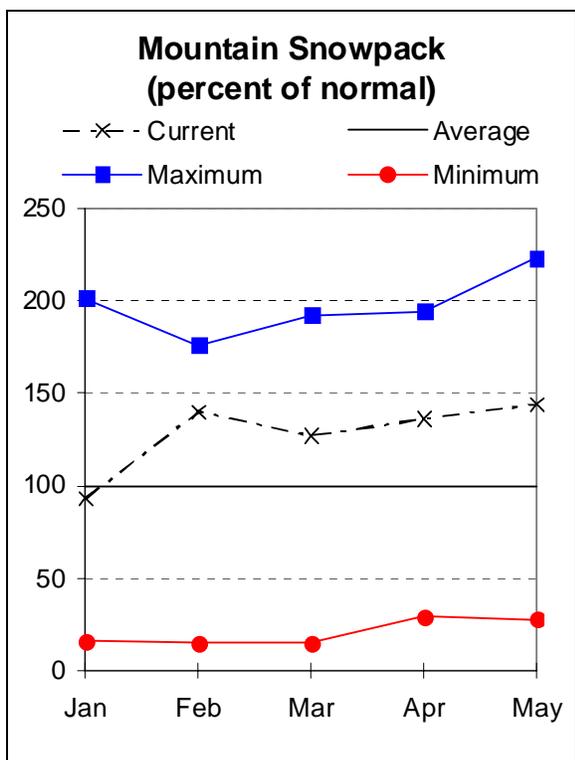
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John Day - (541) 575-0135

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Upper Deschutes and Crooked Basins

May 1, 2008



Water Supply Outlook

March and April precipitation was above average in the Upper Deschutes and Crooked River basin. This winter, the snowpack has been above average and colder temperatures have delayed spring snowmelt. May 1 snow water content in the basin was above average, and the highest in terms of percent of average in the state. Total precipitation since the beginning of the water year has been above average.

Reservoir storage in the Upper Deschutes and Crooked River basin was 99 percent of average at the end of April or 86 percent of capacity. May through September streamflow forecasts in the Upper Deschutes and Crooked River basin range from 99 percent of average for the Deschutes at Benham Falls to 129 percent of average for the Inflow to Ochoco Reservoir. Water users in the Upper Deschutes and Crooked River basins can expect near to above average streamflows this coming summer.

For more information contact your local Natural Resources Conservation Service Office:
Redmond (541) 923-4358

Or visit: <http://www.wcc.nrcs.usda.gov/cgibin/bor.pl>

UPPER DESCHUTES AND CROOKED BASINS
Streamflow Forecasts - May 1, 2008

Forecast Point	Forecast Period	Future Conditions				Wetter		30-Yr Avg. (1000AF)
		90% (1000AF)	70% (1000AF)	Chance Of Exceeding * 50% (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
Crane Prairie Reservoir Inflow (2)	MAY-JUL	49	56	60	122	64	71	49
	MAY-SEP	86	95	101	122	107	116	83
Crescent Ck nr Crescent (2)	MAY-JUL	10.2	13.4	15.5	110	17.6	21	14.1
	MAY-SEP	14.2	17.4	19.5	110	22	25	17.8
Deschutes R at Benham Falls nr Bend	MAY-JUL	240	255	265	98	275	290	270
	MAY-SEP	405	425	440	99	455	475	445
Deschutes R bl Snow Ck nr La Pine	MAY-JUL	19.6	25	28	104	31	36	27
	MAY-SEP	44	51	55	104	59	66	53
Little Deschutes R nr La Pine (2)	MAY-JUL	45	52	57	110	62	69	52
	MAY-SEP	53	61	67	110	73	81	61
Ochoco Reservoir Inflow (2)	MAY-JUL	5.1	10.0	13.3	129	16.6	21	10.3
	MAY-SEP	4.7	9.8	13.3	129	16.8	22	10.3
Prineville Reservoir Inflow (2)	MAY-JUL	29	44	54	123	64	79	44
	MAY-SEP	29	45	55	122	65	81	45
Whychus Ck nr Sisters	MAY-JUL	31	34	35	109	36	39	32
	MAY-SEP	44	46	48	109	50	52	44

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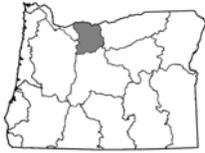
UPPER DESCHUTES AND CROOKED BASINS Reservoir Storage (1000 AF) - End of April					UPPER DESCHUTES AND CROOKED BASINS Watershed Snowpack Analysis - May 1, 2008			
Reservoir	Usable Capacity	*** Usable Storage This Year	Last Year	*** Avg	Watershed	Number of Data Sites	This Year as % of Last Yr	% of Average
CRANE PRAIRIE	55.3	48.1	53.6	44.9	Crooked, Ochoco	4	0	166
CRESCENT LAKE	86.9	50.0	49.1	55.5	Deschutes above Wickiup	3	203	162
OCHOCO	47.5	37.9	42.9	36.0	Little Deschutes	4	180	165
PRINEVILLE	153.0	141.9	149.3	145.0	Tumalo and Squaw Creeks	4	201	126
WICKIUP	200.0	187.1	191.3	188.5				

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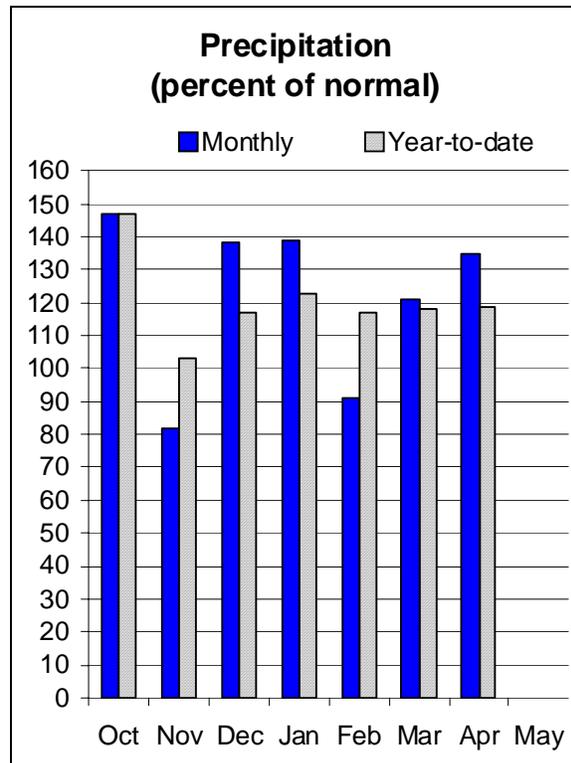
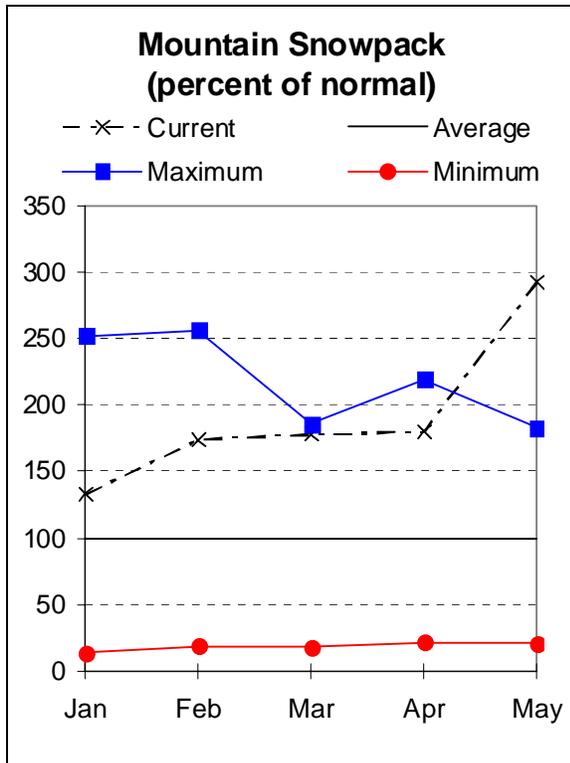
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For more information contact your local Natural Resources Conservation Service Office:
Redmond (541) 923-4358
Or visit: <http://www.wcc.nrcs.usda.gov/cgibin/bor.pl>



Hood, Mile Creeks, and Lower Deschutes Basins

May 1, 2008



Water Supply Outlook

March and April precipitation was well above average in the Hood, Mile Creeks and Lower Deschutes basin. This winter, the snowpack has been well above average and colder temperatures have delayed spring snowmelt. May 1 snow water content in the basin was above average. Six SNOTEL sites in the basin set new maximum annual snow pack values this winter. Additionally, new records were set for May 1 snow water content at 5 SNOTEL sites in the basin. Total precipitation since the beginning of the water year has been above average.

The May through September streamflow forecast for Hood River at Tucker Bridge is 171 percent of average. Water users in the basin can expect well above average streamflows this coming summer. A warm rain event in May could bring rain-on-snow flood conditions to the Hood River drainage.

For more information contact your local Natural Resources Conservation Service Office:
The Dalles (541) 296-6178

Or visit: <http://www.wcc.nrcs.usda.gov/cgibin/bor.pl>

HOOD, MILE CREEKS AND LOWER DESCHUTES BASINS
Streamflow Forecasts - May 1, 2008

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>					30-Yr Avg. (1000AF)	
		90%		50%		30%		
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)		(1000AF)
Hood R at Tucker Bridge	MAY-JUL	235	250	260	170	270	285	153
	MAY-SEP	305	325	335	171	345	365	196

HOOD, MILE CREEKS AND LOWER DESCHUTES BASINS
Reservoir Storage (1000 AF) - End of April

HOOD, MILE CREEKS AND LOWER DESCHUTES BASINS
Watershed Snowpack Analysis - May 1, 2008

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
CLEAR LAKE (WASCO)	11.9	1.9	5.9	5.2	Hood River	6	299	240
					Mile Creeks	0	0	0
					White River	3	263	193

* 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

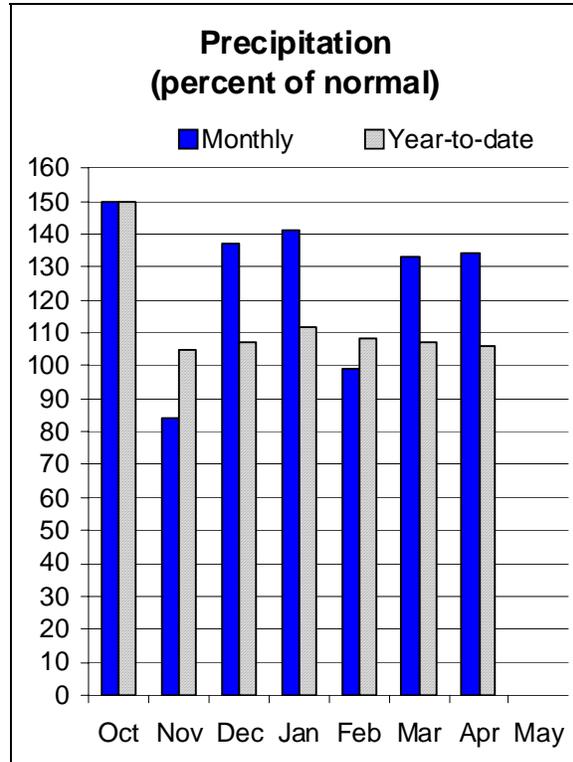
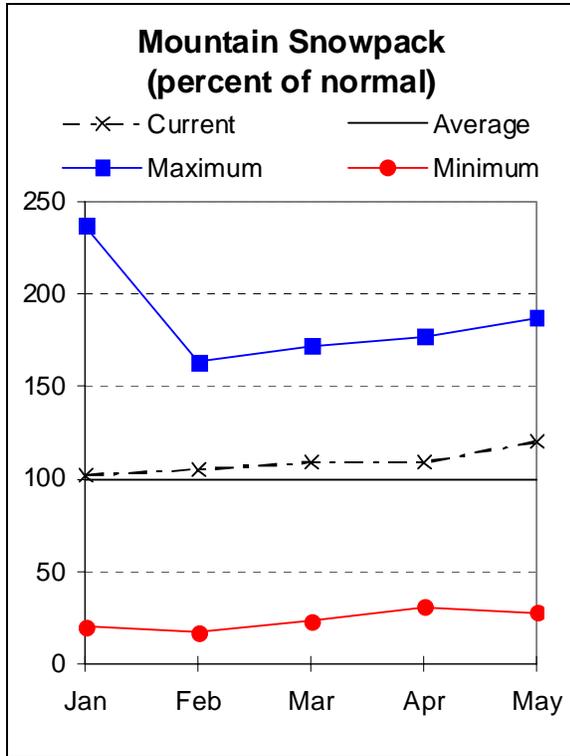
For more information contact your local Natural Resources Conservation Service Office:
The Dalles (541) 296-6178

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Lower Columbia Basin

May 1, 2008



Water Supply Outlook

The Lower Columbia was one of the few basins in the state that had above average precipitation in March and April this year. This winter, the snowpack has been above average and colder temperatures have delayed spring snowmelt. May 1 snow water content in the basin was above average. Three SNOTEL sites in the basin set record annual maximum snow pack values this winter. These three sites also set new records for May 1 snow water content. May 1 snow water content was 120 percent of average. Total precipitation since the beginning of the water year has been near average.

The May through September streamflow forecast for the Columbia River at The Dalles is forecast to be 105 percent of average. For the Sandy River at Marmot, May through September streamflows are forecast to be 141 percent of average. Water users in the basin can expect above average streamflows this coming summer.

For more information contact your local Natural Resources Conservation Service Office:
Oregon City - (503) 656-3499

Or visit: <http://www.wcc.nrcs.usda.gov/cgi-bin/bor.pl>

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LOWER COLUMBIA BASIN
Streamflow Forecasts - May 1, 2008

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Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>					30-Yr Avg. (1000AF)			
		90%		70%		50%		30%		10%
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)			(1000AF)	(1000AF)	
Columbia R at The Dalles (1,2)	MAY-JUL	67000	73300	76100	108	78900	85200	70500		
	MAY-SEP	77900	85400	88800	105	92200	99700	84500		
Sandy R nr Marmot	MAY-JUL	255	280	295	141	310	335	209		
	MAY-SEP	320	345	365	141	385	410	259		

LOWER COLUMBIA BASIN Reservoir Storage (1000 AF) - End of April					LOWER COLUMBIA BASIN Watershed Snowpack Analysis - May 1, 2008			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
					Sandy River	5	356	279

* 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.

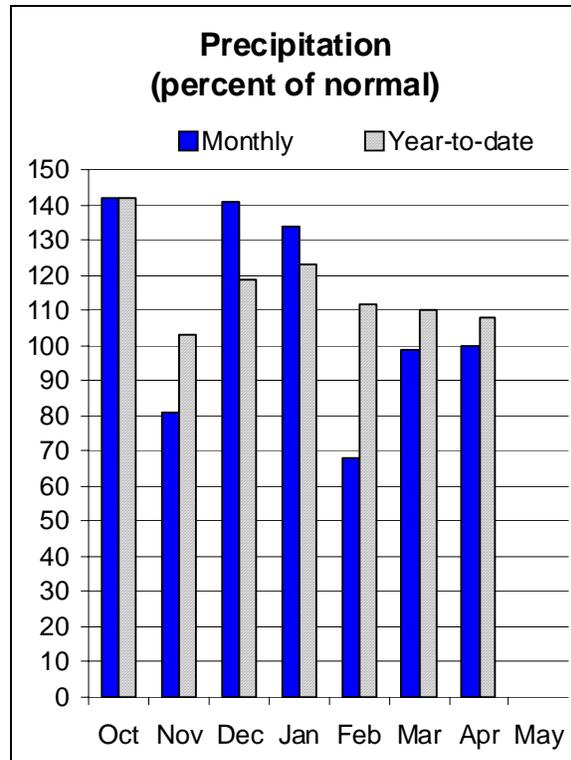
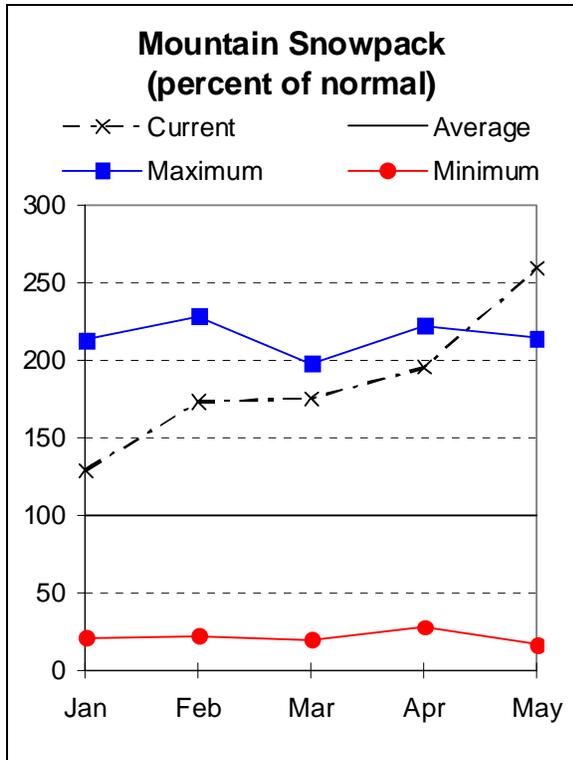
- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.

For more information contact your local Natural Resources Conservation Service Office:
Oregon City - (503) 656-3499
Or visit: <http://www.wcc.nrcs.usda.gov/cgibin/bor.pl>



Willamette Basin

May 1, 2008



Water Supply Outlook

March and April precipitation were near average in the Willamette basin this year. This winter, the snowpack has been well above average all season and colder temperatures have delayed spring snowmelt. New records were set for May 1 snow water content at 11 SNOTEL sites in the Willamette basin. New record annual maximum snowpacks were recorded at these same SNOTEL sites. Total precipitation since the beginning of the water year has been near average.

Reservoir storage at Timothy and Henry Hagg Lakes in the Willamette basin was 93 percent of average at the end of April or 89 percent of capacity.

May through September streamflow forecasts for the Willamette basin range from 170 percent of average for Detroit Lake inflow to 124 percent of average for the McKenzie River near Vida. Elsewhere in the basin, the Willamette at Salem is forecast to be 137 percent of average and the Clackamas at Estacada 148 percent of average for the May through September period. Some areas in the Willamette basin could be subject to rapid low elevation snow melt and localized flooding should a warm rain event occur in May.

For more information contact your local Natural Resources Conservation Service Office:
 Eugene - (541) 465-6436; Portland - (503) 231-2270; Tangent - (541) 967-5925; Oregon City - (503) 656-3499;
 Hillsboro - (503) 648-3174; McMinnville - (503) 472-1474
 Salem - (503) 399-5746; Dallas - (503) 623-5534
 Or visit: <http://www.wcc.nrcs.usda.gov/cgibin/bor.pl>

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WILLAMETTE BASIN
Streamflow Forecasts - May 1, 2008

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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)	
Blue River Lake Inflow (1,2)	MAY-JUN	32	47	55	128	61	76	43
	MAY-JUL	37	53	60	133	67	83	45
	MAY-SEP	41	56	63	134	70	85	47
Clackamas R at Estacada (2)	MAY-JUL	520	580	620	148	660	720	418
	MAY-SEP	670	735	780	148	825	890	526
Clackamas R ab Three Lynx (2)	MAY-JUL	390	430	455	146	480	520	312
	MAY-SEP	515	555	585	146	615	655	400
Cottage Grove Lake Inflow (1,2)	MAY-JUN	6.0	17.7	23	126	28	40	18.2
	MAY-SEP	8.9	21	27	135	33	45	20
Cougar Lake Inflow (1,2)	MAY-JUN	105	129	140	120	151	175	117
	MAY-SEP	160	188	200	124	210	240	161
Detroit Lake Inflow (1,2)	MAY-JUN	350	415	445	156	475	540	286
	MAY-JUL	480	560	595	171	630	710	349
	MAY-SEP	620	705	745	170	785	870	438
Dorena Lake Inflow (1,2)	MAY-JUN	51	80	94	145	108	137	65
	MAY-SEP	64	95	109	145	123	154	75
Fall Creek Lake Inflow (1,2)	MAY-JUN	34	60	72	139	84	110	52
	MAY-SEP	44	72	85	135	98	126	63
Fern Ridge Lake Inflow (1,2)	MAY-JUN	0.0	7.1	19.5	105	23	33	18.6
	MAY-SEP	0.0	7.2	14.2	134	21	37	10.6
Foster Lake Inflow (1,2)	MAY-JUN	205	300	340	134	380	475	253
	MAY-JUL	255	355	400	141	445	545	284
	MAY-SEP	295	400	450	140	500	605	321
Green Peter Lake Inflow (1,2)	MAY-JUN	132	193	220	131	245	310	168
	MAY-JUL	171	235	265	141	295	360	188
	MAY-SEP	200	270	305	142	340	410	215
Hills Creek Lake Inflow (1,2)	MAY	70	96	108	116	120	146	93
	JUN-OCT	175	200	215	131	230	255	164
Little North Santiam R nr Mehama (1)	MAY-JUL	65	94	107	135	120	149	79
	MAY-SEP	79	107	120	135	133	161	89

For more information contact your local Natural Resources Conservation Service Office:
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 Salem - (503) 399-5746; Dallas - (503) 623-5534
 Or visit: <http://www.wcc.nrcs.usda.gov/cgibin/bor.pl>

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WILLAMETTE BASIN
Streamflow Forecasts - May 1, 2008

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Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>				30-Yr Avg. (1000AF)		
		90% (1000AF)	70% (1000AF)	Chance Of Exceeding * 50% (1000AF) (% AVG.)			30% (1000AF)	10% (1000AF)
Lookout Point Lake Inflow (1,2)	MAY	179	250	280	114	310	380	246
	JUN-OCT	455	535	570	142	605	685	402
McKenzie R bl Trail Bridge (2)	MAY-JUL	230	240	250	130	260	270	193
	MAY-SEP	340	355	365	131	375	390	279
McKenzie R nr Vida (1,2)	MAY-JUL	685	785	830	125	875	975	663
	MAY-SEP	935	1050	1100	124	1150	1260	888
Mohawk R nr Springfield	MAY-JUL	33	47	57	136	67	81	42
Oak Grove Fork R ab Power Intake	MAY-JUL	130	138	144	160	150	158	90
	MAY-SEP	187	198	205	161	210	225	127
North Santiam R at Mehama (1,2)	MAY-JUL	490	620	680	145	740	870	470
	MAY-SEP	625	765	830	145	895	1040	572
South Santiam R at Waterloo (2)	MAY-JUL	300	375	425	135	475	550	314
	MAY-SEP	345	425	480	136	535	615	353
Scoggins Ck nr Gaston (2)	MAY-JUL	4.1	5.7	6.8	126	7.9	9.5	5.4
Thomas Ck nr Scio	MAY-JUL	28	41	49	126	57	70	39
MF Willamette R bl NF (1,2)	MAY	220	270	290	124	310	360	234
	JUN-OCT	445	510	540	138	570	635	391
Willamette R at Salem (1,2)	MAY-JUL	3240	3440	3530	137	3620	3820	2578
	MAY-SEP	3630	3990	4150	137	4310	4670	3036

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WILLAMETTE BASIN Reservoir Storage (1000 AF) - End of April					WILLAMETTE BASIN Watershed Snowpack Analysis - May 1, 2008			
Reservoir	Usable Capacity	*** Usable Storage This Year	Last Year	*** Avg	Watershed	Number of Data Sites	This Year as % of Last Yr	% of Average
BLUE RIVER	85.5	71.2	72.2	70.1	Clackamas River	4	928	436
COTTAGE GROVE	29.8	23.3	24.1	25.9	McKenzie River	4	433	213
COUGAR	155.2	111.0	120.8	188.3	Row River	1	569	258
DETROIT	300.7	243.2	264.8	293.6	Santiam River	6	1392	383
DORENA	70.5	52.9	53.2	62.0	Willamette, Middle Fork	6	262	215
FALL CREEK	115.5	99.3	98.4	96.8				
FERN RIDGE	109.6	93.1	77.3	93.4				
FOSTER	29.7	1.3	1.2	11.7				
GREEN PETER	268.2	212.4	211.8	286.4				
HILLS CREEK	200.2	155.0	154.7	209.8				
LOOKOUT POINT	337.0	274.2	267.7	265.0				
TIMOTHY LAKE	61.7	49.2	62.4	56.9				
HENRY HAGG LAKE	53.0	53.1	53.4	52.7				

* 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.
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For more information contact your local Natural Resources Conservation Service Office:

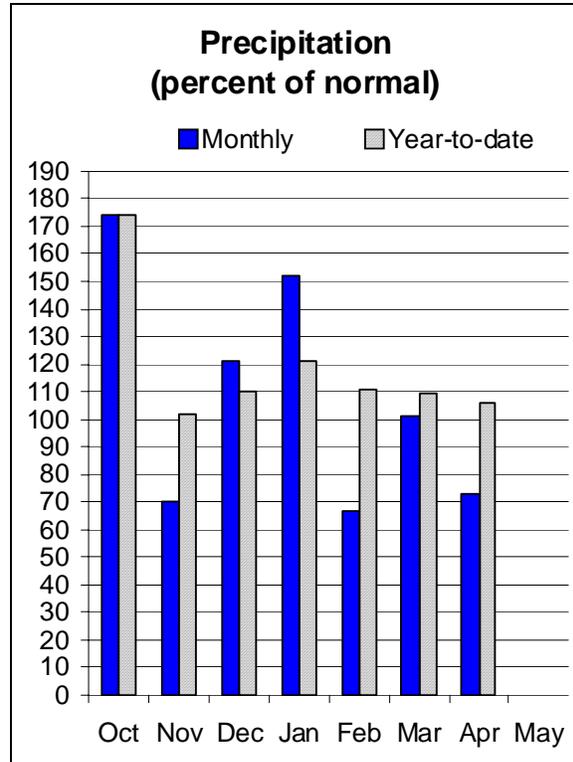
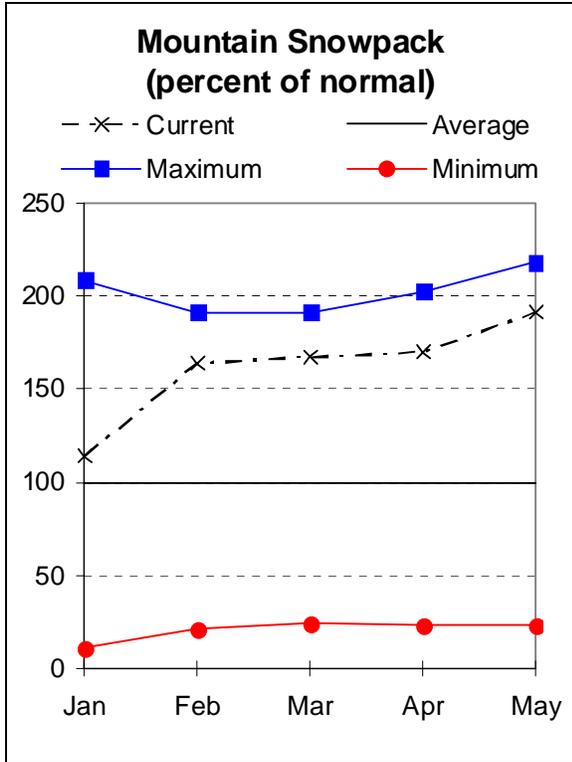
Eugene - (541) 465-6436; Portland - (503) 231-2270; Tangent - (541) 967-5925; Oregon City - (503) 656-3499; Hillsboro - (503) 648-3174; McMinnville - (503) 472-1474
Salem - (503) 399-5746; Dallas - (503) 623-5534

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Rogue and Umpqua Basins

May 1, 2008



Water Supply Outlook

April precipitation was well below normal in the Rogue and Umpqua basins. This winter, the snowpack has been well above average all season and colder temperatures have delayed spring snowmelt. Total precipitation since the beginning of the water year has been near average.

Reservoir storage in the Rogue and Umpqua basin was 111 percent of average at the end of April or 92 percent of capacity. Selected May through September streamflow forecasts for the Rogue and Umpqua basins range from 106 percent of average for the South Umpqua near Tiller to 125 percent of average for the Rogue River at Grants Pass. Water users in the basin can expect near to above average streamflows this coming summer.

For more information contact your local Natural Resources Conservation Service Office:
 Roseburg - (541) 673-8316; Medford - (541) 776-4267
 Or visit: <http://www.wcc.nrcs.usda.gov/cgibin/bor.pl>

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ROGUE AND UMPQUA BASINS
Streamflow Forecasts - May 1, 2008

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Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>					30-Yr Avg. (1000AF)	
		90% (1000AF)	70% (1000AF)	Chance Of Exceeding * 50% (1000AF) (% AVG.)		30% (1000AF)		10% (1000AF)
Applegate Lake Inflow (2)	MAY-JUL	60	72	81	113	90	102	72
	MAY-SEP	66	79	88	113	97	110	78
SF Big Butte Ck nr Butte Falls	MAY-JUL	19.9	24	27	123	30	34	22
	MAY-SEP	30	36	39	125	42	48	31
Cow Ck nr Azalea (2)	MAY-JUL	3.1	6.4	8.6	109	10.8	14.1	7.9
	MAY-SEP	3.9	7.4	9.8	108	12.2	15.7	9.1
Hyatt Prairie Reservoir Inflow (2)	MAY-JUL	0.8	1.8	2.5	104	3.2	4.2	2.4
Illinois R at Kerby	MAY-JUL	51	77	95	115	113	139	83
	MAY-SEP	56	83	101	112	119	146	90
NF Little Butte Ck nr Lakecreek (2)	MAY-JUL	23	27	30	120	33	37	25
	MAY-SEP	41	46	50	127	54	59	40
Lost Creek Lake Inflow (2)	MAY-JUL	405	445	470	124	495	535	380
	MAY-SEP	540	590	620	120	650	700	515
Rogue R at Raygold (2)	MAY-JUL	420	505	560	117	615	700	480
	MAY-SEP	600	690	750	116	810	900	645
Rogue R at Grants Pass (2)	MAY-JUL	440	530	590	126	650	740	470
	MAY-SEP	605	705	770	125	835	935	615
Sucker Ck bl Ltl Grayback Ck nr Holl	MAY-JUL	25	31	35	113	39	45	31
	MAY-SEP	30	36	40	114	44	50	35
North Umpqua R at Winchester	MAY-JUL	375	470	535	109	600	695	490
	MAY-SEP	505	600	665	108	730	825	615
South Umpqua R nr Brockway	MAY-JUL	98	167	215	113	265	330	191
	MAY-SEP	112	185	235	112	285	360	210
South Umpqua R at Tiller	MAY-JUL	60	92	114	108	136	168	106
	MAY-SEP	68	101	123	106	145	178	116

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For more information contact your local Natural Resources Conservation Service Office:
Roseburg - (541) 673-8316; Medford - (541) 776-4267
Or visit: <http://www.wcc.nrcs.usda.gov/cgibin/bor.pl>

ROGUE AND UMPQUA BASINS Reservoir Storage (1000 AF) - End of April					ROGUE AND UMPQUA BASINS Watershed Snowpack Analysis - May 1, 2008			
Reservoir	Usable Capacity	*** Usable Storage This Year	Last Year	*** Avg	Watershed	Number of Data Sites	This Year as % of Last Yr	% of Average
APPLEGATE	75.2	56.9	58.4	64.5	Applegate River	5	171	129
EMIGRANT LAKE	39.0	38.9	38.8	35.9	Bear Creek	4	149	119
FISH LAKE	8.0	5.1	7.0	6.2	Butte Creek	6	514	261
FOURMILE LAKE	16.1	11.6	13.6	11.0	Illinois River	1	0	303
HOWARD PRAIRIE	60.0	56.2	61.0	48.8	North Umpqua River	9	412	293
HYATT PRAIRIE	16.1	16.3	16.3	13.3	Rogue River	20	240	171
LOST CREEK	315.0	169.5	179.5	283.2				

* 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.

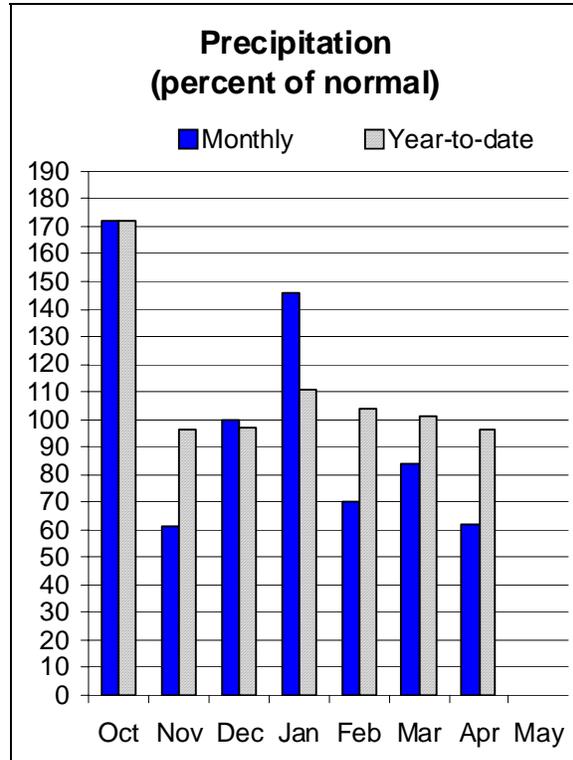
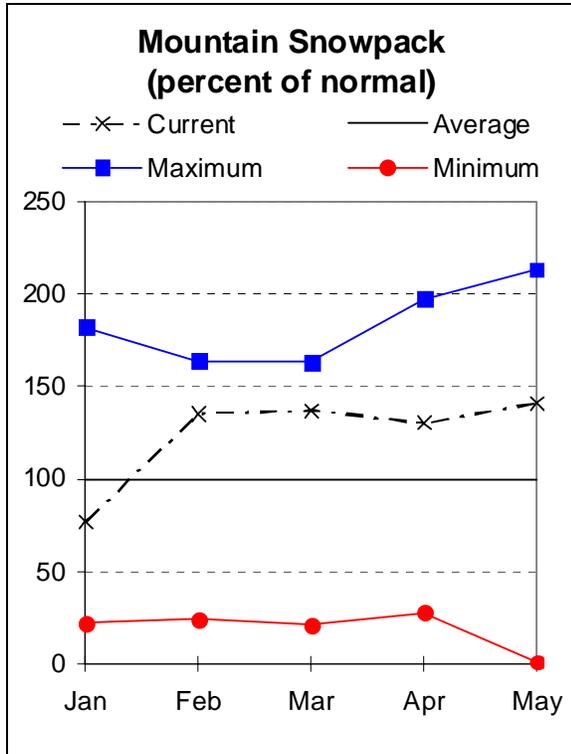
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 Or visit: <http://www.wcc.nrcs.usda.gov/cgi-bin/bor.pl>



Klamath Basin

May 1, 2008



Water Supply Outlook

Colder temperatures in the first part of April delayed snow melt at many SNOTEL sites in the Klamath basin. As a result of the delayed melt, the total snowpack on May 1 was 141 percent of average. Billie Creek Divide SNOTEL site set a new record for May 1 snow water with 28.1 inches of water. The previous record was 26.6 inches of water set in 1999.

Monthly precipitation totals have been below average for every month except October, December and January in the Klamath basin. April precipitation in the Klamath basin was 64 percent of average. Since the beginning of the water year, Klamath precipitation has been near average.

At the end of April, reservoir storage in the Klamath basin was 85 percent of average or 62 percent of capacity. May through September streamflows are forecast to be near average in the Klamath basin. The inflow to Gerber Reservoir is projected to be 96 percent of average while Clear Lake inflow is 95 percent of average. Elsewhere in the basin, the May through September forecast for the Upper Klamath Lake inflow is 97 percent of average. Water users throughout the Klamath basin can expect near average water supplies this coming season.

For more information contact your local Natural Resources Conservation Service Office:
Klamath Falls - (541) 883-6932

Or visit: <http://www.wcc.nrcs.usda.gov/cgibin/bor.pl>

KLAMATH BASIN
Streamflow Forecasts - May 1, 2008

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>					30-Yr Avg. (1000AF)	
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)			30% (1000AF)
Clear Lake Inflow (2)	MAY-JUL	2.4	12.3	19.0	98	26	36	19.3
	MAY-SEP	10.0	18.9	25	95	31	40	26
Gerber Reservoir Inflow (2)	MAY-JUL	0.5	2.0	6.1	102	10.2	16.2	6.0
	MAY-SEP	0.8	2.3	6.3	96	10.3	16.2	6.6
Sprague R nr Chiloquin	MAY-JUL	73	101	120	94	139	167	128
	MAY-SEP	98	126	145	94	164	192	155
Upper Klamath Lake Inflow (1,2)	MAY-JUL	151	215	245	96	275	340	255
	MAY-SEP	235	300	330	97	360	425	340
Williamson R bl Sprague R nr Chiloqu	MAY-JUL	144	177	200	98	225	255	205
	MAY-SEP	200	235	260	98	285	320	265

KLAMATH BASIN Reservoir Storage (1000 AF) - End of April					KLAMATH BASIN Watershed Snowpack Analysis - May 1, 2008			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
CLEAR LAKE (CALIF)	513.3	151.0	173.2	264.3	Lost River	2	0	0
GERBER	94.3	81.1	83.6	72.9	Sprague River	3	166	93
UPPER KLAMATH LAKE	523.7	464.1	483.7	483.4	Upper Klamath Lake	9	203	148
					Williamson River	4	153	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.

For more information contact your local Natural Resources Conservation Service Office:

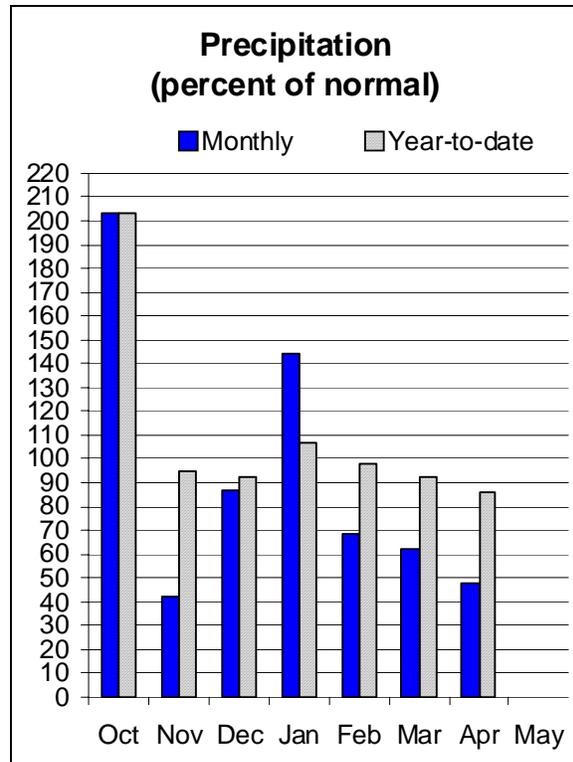
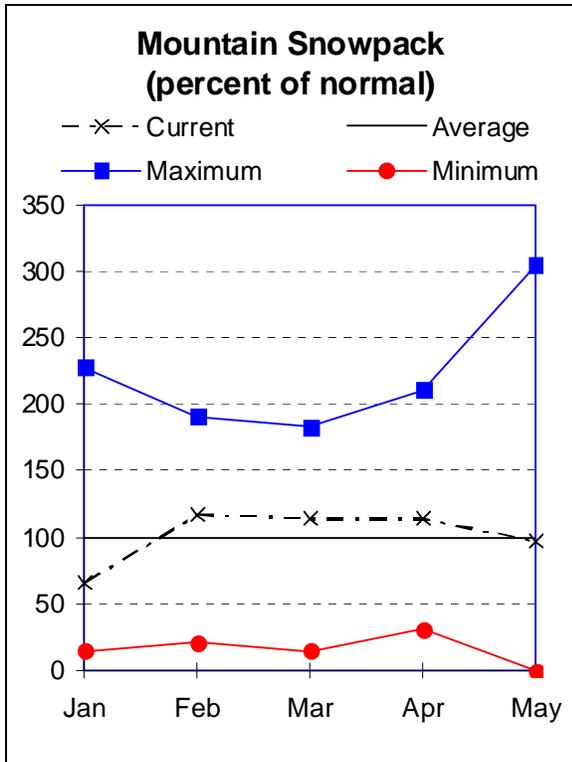
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Lake County and Goose Lake

May 1, 2008



Water Supply Outlook

February, March and April precipitation was well below normal in Lake County and Goose Lake basins. This winter, the snowpack has been near to below average all season. Colder temperatures have delayed spring snowmelt. As a result, the May 1 snowpack was near normal. Total precipitation since the beginning of the water year has been 86 percent of average, the lowest in the state.

Reservoir storage in the Lake County and Goose Lake basin was 87 percent of average at the end of April or 70 percent of capacity. May through September streamflow forecasts range from 81 percent of average for Silver Creek near Silver Lake to 105 percent of average for Twentymile Creek near Adel. Elsewhere in the basin, the May through September streamflow forecast for the Chewaucan near Paisley is expected to be 88 percent of average. Water users in the basin can anticipate average to below average summer streamflows.

For more information contact your local Natural Resources Conservation Service Office:
Lakeview - (541) 947-2202

Or visit: <http://www.wcc.nrcs.usda.gov/cgi-bin/bor.pl>

LAKE COUNTY AND GOOSE LAKE BASINS
Streamflow Forecasts - May 1, 2008

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)	
Chewaucan R nr Paisley	MAY-JUL	27	38	45	87	52	63	52
	MAY-SEP	31	42	49	88	56	67	56
Deep Ck ab Adel	MAY-JUL	21	32	39	87	46	57	45
	MAY-SEP	22	33	41	87	49	60	47
Honey Ck nr Plush	MAY-JUL	4.6	8.4	10.9	101	13.4	17.2	10.8
	MAY-SEP	4.8	8.5	11.1	101	13.7	17.4	11.0
Silver Ck nr Silver Lake (2)	MAY-JUL	0.1	2.5	4.3	79	6.1	8.8	5.4
	MAY-SEP	0.2	2.9	4.8	81	6.7	9.4	6.0
Twentymile Ck nr Adel	MAY-JUL	1.0	6.2	11.1	105	16.0	23	10.6
	MAY-SEP	1.5	6.8	11.7	105	16.6	24	11.1

LAKE COUNTY AND GOOSE LAKE BASINS
Reservoir Storage (1000 AF) - End of April

LAKE COUNTY AND GOOSE LAKE BASINS
Watershed Snowpack Analysis - May 1, 2008

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
COTTONWOOD	8.7	9.3	9.3	6.7	Chewaucan River	2	161	91
DREWS	63.0	38.0	51.0	51.0	Deep Creek	1	5200	155
THOMPSON VALLEY	18.4	15.7	18.6	14.4	Drew Creek	2	0	0
					Honey Creek	1	5200	155
					Silver Creek (Lake Co.)	3	207	104
					Twentymile Creek	1	5200	155

* 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.

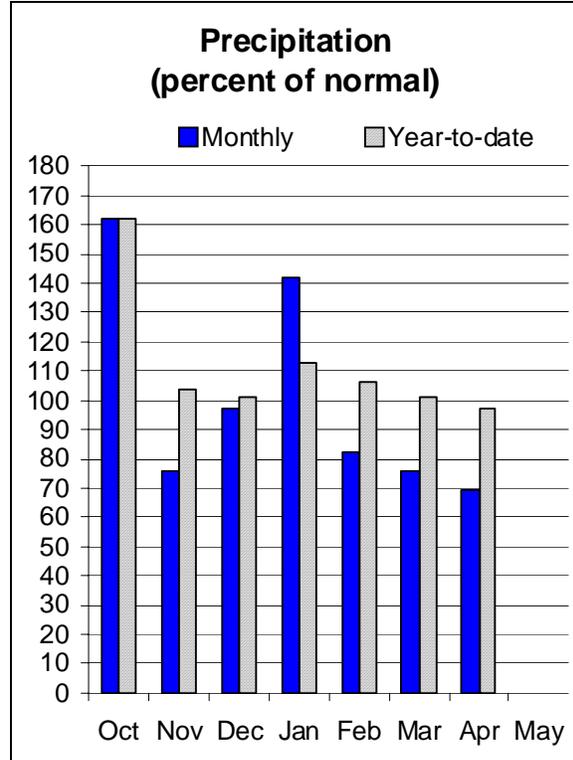
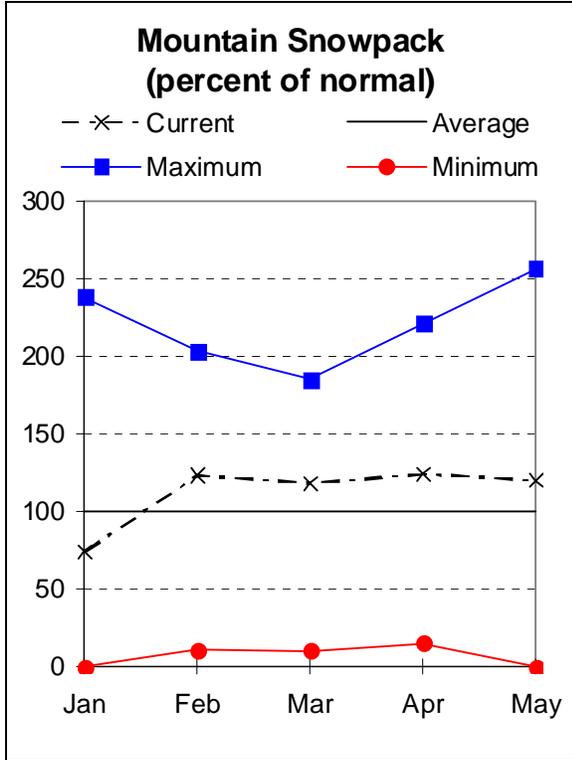
For more information contact your local Natural Resources Conservation Service Office:
Lakeview - (541) 947-2202

Or visit: <http://www.wcc.nrcs.usda.gov/cgibin/bor.pl>



Harney Basin

May 1, 2008



Water Supply Outlook

February, March and April precipitation was well below normal in Harney basin. Even so, the snowpack on May 1 was above average at 120 percent of average. Colder temperatures have delayed spring snowmelt. Total precipitation since the beginning of the water year has been 97 percent of average.

May through September streamflow forecasts in the Harney Basin range from 87 percent of average for Trout Creek near Denio to 131 percent of average for the Silvies River near Burns. Elsewhere in the basin, the Donner Und Blitzen near Frenchglen is forecast to be 95 percent of average. Water users in the Harney Basin can expect near to above normal water supply conditions this coming season.

For more information contact your local Natural Resources Conservation Service Office:
Hines - (541) 573-6446

Or visit: <http://www.wcc.nrcs.usda.gov/cgibin/bor.pl>

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HARNEY BASIN
Streamflow Forecasts - May 1, 2008

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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)
Donner Und Blitzen R nr Frenchglen	MAY-JUL	26	39	47	94	55	68	50
	MAY-SEP	31	44	53	95	62	75	56
Silvies R nr Burns	MAY-JUL	35	52	64	131	76	93	49
	MAY-SEP	38	56	68	131	80	98	52
Trout Ck Nr Denio	MAY-JUL	3.5	5.2	6.3	88	7.4	9.1	7.2
	MAY-SEP	4.0	5.7	6.8	87	7.9	9.6	7.8

HARNEY BASIN Reservoir Storage (1000 AF) - End of April					HARNEY BASIN Watershed Snowpack Analysis - May 1, 2008			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
					Donner und Blitzen River	2	150	112
					Silver Creek (Harney Co)	2	0	126
					Silvies River	5	0	161
					Trout Creek	1	0	0

* 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.

For more information contact your local Natural Resources Conservation Service Office:
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Generalized Streamflow Forecasts

May 1, 2008

FORECAST POINT TO BE DISCONTINUED	GENERALIZED WY 2008 STREAMFLOW FORECAST (MAY - SEPTEMBER)
SUCCOR CK nr Jordan Valley	AVERAGE - ABOVE AVERAGE
ANTHONY CK bl NF nr North Powder	AVERAGE - ABOVE AVERAGE
BIG CK bl Burn Ck nr Medical Spgs	ABOVE AVERAGE
HURRICANE CREEK near Joseph	ABOVE AVERAGE
EF WALLOWA near Joseph	ABOVE AVERAGE
WALLOWA at Joseph (2)	ABOVE AVERAGE
COUSE CREEK near Milton-Freewater	AVERAGE - ABOVE AVERAGE
ROCK CREEK above Whyte	AVERAGE - ABOVE AVERAGE
NF CROOKED blw Lookout Ck	AVERAGE - ABOVE AVERAGE
WHYCHUS CREEK near Sisters	AVERAGE - ABOVE AVERAGE
TUMALO CREEK near Bend	AVERAGE - ABOVE AVERAGE
WF HOOD near Dee	ABOVE AVERAGE
WHITE below Tygh Valley	ABOVE AVERAGE
CLEARWATER above Trap Creek (2)	AVERAGE - ABOVE AVERAGE
FOURMILE LAKE net Inflow (2)	AVERAGE - ABOVE AVERAGE
GRAVE CREEK at Pease Bridge	AVERAGE - ABOVE AVERAGE
NORTH UMPQUA nr Toketee Falls (2)	AVERAGE - ABOVE AVERAGE
BRIDGE CK nr Spahr Ranch	ABOVE AVERAGE
COTTONWOOD CK nr Lakeview (2)	ABOVE AVERAGE
DREWS RESERVOIR net Inflow (2)	ABOVE AVERAGE
SILVER CK nr Riley	AVERAGE - ABOVE AVERAGE

The streamflow at the points above can no longer be modeled within an acceptable level of certainty. Forecasts at these sites will be completely discontinued in water year 2009.

Low Flow Forecasts for Oregon

OWYHEE AND MALHEUR BASINS			
<i>FORECAST POINT</i>	<i>LOW FLOW CFS</i>	<i>FORECAST DATE OF LOW FLOW</i>	<i>AVERAGE DATE OF LOW FLOW</i>
Owyhee nr Rome	2000	May 27	May 21
	1000	Jun 10	June 2
	500	Jun 28	June 17

BURNT, POWDER, PINE, GRAND RONDE AND IMNAHA BASINS			
<i>FORECAST POINT</i>	<i>LOW FLOW CFS</i>	<i>FORECAST DATE OF LOW FLOW</i>	<i>AVERAGE DATE OF LOW FLOW</i>
Eagle Ck above Skull Ck	225	Aug 6	July 22
	160	Aug 16	August 5
Catherine Ck nr Union	48	August 1	Avg Value = 49 cfs
	100	Jul 10	July 9
	50	Jul 30	July 28
Powder near Sumpter	100	Jun 30	June 25
	20	Jul 25	July 22
Deer Ck above Phillips Resv nr Sumpter	40	Jun 20	June 17
	10	Jul 7	July 6

UMATILLA, WALLA WALLA, WILLOW, ROCK AND LOWER JOHN DAY BASINS			
<i>FORECAST POINT</i>	<i>LOW FLOW CFS</i>	<i>FORECAST DATE OF LOW FLOW</i>	<i>AVERAGE DATE OF LOW FLOW</i>
Umatilla at Pendleton	550	May 25	May 17
SF Walla Walla nr Milton	200	Jun 20	June 9
	110	August-September	Avg Value = 105 cfs

UPPER JOHN DAY			
<i>FORECAST POINT</i>	<i>LOW FLOW CFS</i>	<i>FORECAST DATE OF LOW FLOW</i>	<i>AVERAGE DATE OF LOW FLOW</i>
John Day at Service Ck	220	August 1	Avg Value = 212 cfs

UPPER DESCHUTES AND CROOKED BASINS			
<i>FORECAST POINT</i>	<i>FLOW CFS</i>	<i>FORECAST DATE OF LOW FLOW</i>	<i>AVERAGE DATE OF LOW FLOW</i>
Carne Prairie net inflow	330	Peak	
	210	Oct 31	
	Peak	May 28	
Crooked R	100	Jun 4	
Little Deschutes nr LaPine	400	Jun 10	June 7
	200	Jul 12	July 8
Whychus Cr nr Sisters	100	Aug 30	August 16
Tumalo Ck nr Bend	235	Jun 27	June 23
	207	Jun 29	June 25
	150	Jul 6	July 5
	71	Aug 9	August 7

HOOD, MILE CREEKS, AND LOWER DESCHUTES BASINS

<i>FORECAST POINT</i>	<i>FLOW CFS</i>	<i>FORECAST DATE OF LOW FLOW</i>	<i>AVERAGE DATE OF LOW FLOW</i>
Clear Branch Inflow	45*	July 15-31	39 cfs**
*Average cfs forecast to flow for this two-week period.			
** Average cfs for period of record			
White bl Tygh Valley	200	Jul 10	July 3
	155	Aug 1	Avg Value = 145

ROGUE AND UMPQUA BASINS

<i>FORECAST POINT</i>	<i>FLOW CFS</i>	<i>FORECAST DATE OF LOW FLOW</i>	<i>AVERAGE DATE OF LOW FLOW</i>
Cow Ck nr Azalea	20	Jul 10	July 4
	10	Aug 25	August 19
Little Butte Cr SF	100	May 20	May 15
South Umpqua nr Brockway	90	Sep 8	August 28
South Umpqua at Tiller	140	Jul 21	July 12
	90	Aug 6	July 28
	60	Aug 30	August 24

LAKE COUNTY AND GOOSE LAKE BASINS

<i>FORECAST POINT</i>	<i>FLOW CFS</i>	<i>FORECAST DATE OF LOW FLOW</i>	<i>AVERAGE DATE OF LOW FLOW</i>
Deep Ck abv Adel	100	Jun 14	June 21
Honey Ck nr Plush	100	May 5	May 15
	50	May 20	May 30
Twentymile nr Adel	50	May 20	June 2
	10	Jun 22	July 3

HARNEY BASIN

<i>FORECAST POINT</i>	<i>FLOW CFS</i>	<i>FORECAST DATE OF LOW FLOW</i>	<i>AVERAGE DATE OF LOW FLOW</i>
Silvies nr Burns	400	May 12	May 5
	200	May 25	May 21
	100	Jun 10	June 9
	50	Jun 25	June 23
Donner und Blitzen	200	Jun 5	June 15
	100	Jul 1	July 5

Summary of Snow Course Data

May 2008

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
Oregon						
ANEROID LAKE SNOTEL	7410	5/01/08	84	29.4	17.4	26.2
ANNIE SPRING SNOTEL	6010	5/01/08	113	45.7	35.2	39.7
ANTHONY LAKE	7130	5/05/08	69	31.3E	20.2	30.0
ARBUCKLE MTN SNOTEL	5770	5/01/08	56	16.7	.0	15.0
BEAVER DAM CREEK	5100	5/01/08	44	16.7	.0	4.1
BEAVER RES. SNOTEL	5150	5/01/08	31	19.5	.0	1.4
BIG RED MTN SNOTEL	6050	5/01/08	77	35.2	22.3	26.4
BIGELOW CAMP SNOTEL	5120	5/01/08	38	19.7	.0	6.5
BILLIE CK DVD SNOTEL	5300	5/01/08	58	28.1	6.2	10.2
BLAZED ALDER SNOTEL	3650	5/01/08	---	91.8	16.4	23.3
BLUE MTN SPGS SNOTEL	5900	5/01/08	33	16.1	.0	8.3
BOURNE SNOTEL	5850	5/01/08	44	16.9	.0	9.1
BOWMAN SPRNGS SNOTEL	4530	5/01/08	---	2.6	.0	.8
CALIBAN ALT	6500	4/30/08	85	36.0	25.2	31.5
CAMAS CREEK #3	5850	5/02/08	22	10.4	.2	6.7
CASCADE SUM. SNOTEL	5100	5/01/08	110	51.9	24.6	27.9
CHEMULT ALT SNOTEL	4850	5/01/08	2	.7	.0	.7
CLACKAMAS LK. SNOTEL	3400	5/01/08	46	17.5	.0	2.3
CLEAR LAKE SNOTEL	3810	5/01/08	67	25.7	.0	5.8
COLD SPRINGS SNOTEL	5940	5/01/08	75	37.6	14.7	21.3
COUNTY LINE SNOTEL	4800	5/01/08	0	.0	.0	.4
CRAZYMAN FLAT SNOTEL	6180	5/01/08	21	10.9	.0	6.3
DALY LAKE SNOTEL	3690	5/01/08	98	46.2	.0	3.9
DEADWOOD JUNCTION	4600	5/01/08	17	6.0	.0	.8
DERR SNOTEL	5850	5/01/08	28	11.7	.0	6.5
DIAMOND LAKE SNOTEL	5320	5/01/08	42	16.8	.0	6.3
EILERTSON SNOTEL	5510	5/01/08	25	10.5	.0	3.4
EMIGRANT SPGS SNOTEL	3800	5/01/08	0	.0	.0	.1
FISH CREEK SNOTEL	7660	5/01/08	71	28.5	24.9	28.6
FISH LK. SNOTEL	4670	5/01/08	44	17.4	.0	1.4
FOURMILE LAKE SNOTEL	6000	5/01/08	73	32.4	14.6	23.5
GERBER RES SNOTEL	4850	5/01/08	0	.0	.0	.0
GOLD CENTER SNOTEL	5410	5/01/08	4	4.1	.0	1.0
GREENPOINT SNOTEL	3310	5/01/08	75	33.4	.0	4.4
HIGH RIDGE SNOTEL	4920	5/01/08	92	36.3	6.5	15.9
HOGG PASS SNOTEL	4760	5/01/08	121	48.3	2.6	34.3
HOLLAND MDWS SNOTEL	4900	5/01/08	118	43.8	7.7	17.0
HOWARD PRAIRIE	4500	5/01/08	15	6.3	.0	.9
HUNGRY FLAT	4400	4/30/08	0	.0	.0	.0
IRISH-TAYLOR SNOTEL	5500	5/01/08	130	51.9	31.0	38.8
JUMP OFF JOE SNOTEL	3520	5/01/08	79	36.9	.0	3.5
KING MTN #1	4500	5/01/08	48	22.7	.0	2.8
KING MTN #2 SNOTEL	4340	5/01/08	29	11.2	.0	.9
KING MTN #3	3650	5/01/08	0	.0	.0	.0
KING MTN #4	3050	5/01/08	0	.0	.0	.0
LAKE CK R.S. SNOTEL	5200	5/01/08	1	2.1	.0	1.3
LITTLE MEADOW SNOTEL	4000	5/01/08	166	71.1	16.7	16.9
LUCKY STRIKE SNOTEL	4970	5/01/08	9	5.5	.0	2.7
MADISON BUTTE SNOTEL	5150	5/01/08	2	2.4	.0	.4
MARION FORKS SNOTEL	2600	5/01/08	65	33.8	.0	3.6

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
MARKS CREEK	4540	5/01/08	0	.0	.0	.1
MCKENZIE	SNOTEL 4800	5/01/08	---	73.0	34.0	40.0
MEACHAM	4300	4/29/08	9	.7	.0	1.6
MOSS SPRINGS	SNOTEL 5760	5/01/08	76	28.4	13.3	22.3
MT ASHLAND SWBK.	6400	4/30/08	85	36.3	24.2	33.0
MT HOOD TEST	SNOTEL 5400	5/01/08	214	91.8	50.5	63.9
MT HOWARD	SNOTEL 7910	5/01/08	59	22.2	12.7	16.9
MUD RIDGE	SNOTEL 4070	5/01/08	113	52.2	14.1	18.2
NEW CRESCENT	SNOTEL 4910	5/01/08	41	9.3	.0	3.0
NEW DUTCHMAN #3	6400	4/30/08	132	59.0	41.8	55.4
NORTH FK RES	SNOTEL 3060	5/01/08	152	68.4	11.6	6.9
NORTH UMPQUA	4220	5/01/08	37	16.1	.0	3.5
OCHOCO MEADOW	SNOTEL 5430	5/01/08	15	5.2	.0	1.8
PARK H.Q. REV	6550	5/02/08	144	67.9	56.0	63.1
PEAVINE RIDGE	SNOTEL 3420	5/01/08	72	35.5	.0	3.7
QUARTZ MTN	SNOTEL 5720	5/01/08	0	.0	.0	.1
R.R. OVERPASS	SNOTEL 2680	5/01/08	0	.0	.0	.0
RED BUTTE #1	4560	4/30/08	108	48.4	7.5	6.7
RED BUTTE #2	4000	4/30/08	47	19.3	.0	2.1
RED BUTTE #3	3500	4/30/08	26	11.2	.0	.2
RED BUTTE #4	3000	4/30/08	0	.0	.0	.0
RED HILL	SNOTEL 4400	5/01/08	---	85.0	45.9	42.5
ROARING RIVER	SNOTEL 4950	5/01/08	106	58.9	13.5	24.0
ROCK SPRINGS	SNOTEL 5290	5/01/08	0	.0	.0	.1
SADDLE MTN	SNOTEL 3110	5/01/08	56	28.0	.0	2.1
SALT CK FALLS	SNOTEL 4220	5/01/08	---	45.4	11.0	10.5
SANTIAM JCT.	SNOTEL 3750	5/01/08	77	32.4	.0	8.0
SCHNEIDER MDW	SNOTEL 5400	5/01/08	72	22.8	9.2	20.2
SEINE CREEK	SNOTEL 2060	5/01/08	0	.0	.0	.0
SEVENMILE MARSH SNTL	5700	5/01/08	93	42.4	18.5	22.6
SILVER BURN	3720	5/02/08	40	19.6	.0	.9
SILVER CREEK	SNOTEL 5740	5/01/08	6	3.0	.0	1.6
SILVIES	SNOTEL 6990	5/01/08	44	18.5	6.4	13.3
SKI BOWL ROAD	6000	4/30/08	65	27.8	19.2	23.1
SNOW MTN	SNOTEL 6220	5/01/08	25	9.3	.0	7.4
SF BULL RUN	SNOTEL 2690	5/01/08	70	33.8	.0	.1
SOUTH FORK CANAL	3500	4/28/08	0	.0	.0	.0
STARR RIDGE	SNOTEL 5250	5/01/08	0	.0	.0	.0
STRAWBERRY	SNOTEL 5760	5/01/08	0	.0	.0	.8
SUMMER RIM	SNOTEL 7100	5/01/08	33	11.9	7.4	13.0
SUMMIT LAKE	SNOTEL 5600	5/01/08	132	55.2	40.5	39.4
TANGENT	5400	4/30/08	37	18.6	.0	11.3
TAYLOR BUTTE	SNOTEL 5030	5/01/08	1	.4	.0	.1
TAYLOR GREEN	SNOTEL 5740	5/01/08	53	21.2	.0	10.3
THREE CK MEAD	SNOTEL 5650	5/01/08	67	26.1	9.9	15.3
TIPTON	SNOTEL 5150	5/01/08	---	12.7	.0	4.8
TOLLGATE	5070	4/30/08	107	44.9	17.8	19.3
TRAP CREEK	3800	5/01/08	42	18.5	.0	3.1
WOLF CREEK	SNOTEL 5630	5/01/08	54	13.8	.0	9.8

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00

California						
ADIN MOUNTAIN	6350	4/28/08	13	5.9	.0	6.5
ADIN MTN SNOTEL	6350	5/01/08	3	1.9	.0	6.8
CEDAR PASS SNOTEL	7100	5/01/08	31	13.6	3.4	14.3
CROWDER FLAT SNOTEL	5200	5/01/08	0	.0	.0	--
DISMAL SWAMP SNOTEL	7000	5/01/08	58	25.7	14.3	24.9
Idaho						
MUD FLAT SNOTEL	5730	5/01/08	0	.0	.0	.0
SOUTH MTN SNOTEL	6500	5/01/08	38	16.3	.0	9.4
Nevada						
BEAR CREEK SNOTEL	7800	5/01/08	---	19.4	11.8	19.0
BIG BEND SNOTEL	6700	5/01/08	15	5.6	.0	2.3
BUCKSKIN,L SNOTEL	6700	5/01/08	21	6.6	.0	3.7
DISASTER PEAK SNOTEL	6500	5/01/08	0	.0	.0	2.9
FAWN CREEK SNOTEL	7050	5/01/08	38	12.7	.0	14.5
GRANITE PEAK SNOTEL	7800	5/01/08	48	19.8	6.0	24.2
JACK CREEK, U SNOTEL	7280	5/01/08	43	14.2	2.2	17.0
LAMANCE CREEK SNOTEL	6000	5/01/08	10	3.3	.0	3.9
LAUREL DRAW SNOTEL	6700	5/01/08	16	5.4	.0	1.6
SEVENTYSIX CK SNOTEL	7100	5/01/08	18	5.4	.0	3.9
TAYLOR CANYON SNOTEL	6200	5/01/08	0	.0	.0	.3

(d) denotes discontinued site.

Basin Outlook Reports; How Forecasts Are Made

And Federal – State – Private Cooperative Snow Surveys

For more water supply and resource management information, contact:

**USDA, Natural Resources Conservation Service
Snow Survey Office
1201 NE Lloyd; Suite 900
Portland, OR 97232**

Phone: (503) 414-3270

Web site: <http://www.or.nrcs.usda.gov/snow/index.html>

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.

Interpreting Water Supply Forecasts

Each month, five forecasts are issued for each forecast point and each forecast period. Unless otherwise specified, all streamflow forecasts are for streamflow volumes that would occur naturally without any upstream influences. Water users need to know what the different forecasts represent if they are to use the information correctly when making operational decisions. The following is an explanation of each of the forecasts.

90 Percent Chance of Exceedance Forecast. There is a 90 percent chance that the actual streamflow volume will exceed this forecast value, and there is a 10 percent chance that the actual streamflow volume will be less than this forecast value.

70 Percent Chance of Exceedance Forecast. There is a 70 percent chance that the actual streamflow volume will exceed this forecast value, and there is a 30 percent chance that the actual streamflow volume will be less than this forecast value.

50 Percent Chance of Exceedance Forecast. There is a 50 percent chance that the actual streamflow volume will exceed this forecast value, and there is a 50 percent chance that the actual streamflow volume will be less than this forecast value. Generally, this forecast is the middle of the range of possible streamflow volumes that can be produced given current conditions.

30 Percent Chance of Exceedance Forecast. There is a 30 percent chance that the actual streamflow volume will exceed this forecast value, and there is a 70 percent chance that the actual streamflow volume will be less than this forecast value.

10 Percent Chance of Exceedance Forecast. There is a 10 percent chance that the actual streamflow volume will exceed this forecast value, and there is a 90 percent chance that the actual streamflow volume will be less than this forecast value.

*Note: There is still a 20 percent chance that actual streamflow volumes will fall either below the 90 percent exceedance forecast or above the 10 percent exceedance forecast.

These forecasts represent the uncertainty inherent in making streamflow predictions. This uncertainty may include sources such as: unknown future weather conditions, uncertainties associated with the various prediction methodologies, and the spatial coverage of the data network in a given basin.

30-Year Average. The 30-year average streamflow for each forecast period is provided for comparison. The average is based on data from 1971-2000. The % AVG. column compares the 50% chance of exceedance forecast to the 30-year average streamflow; values above 100% denote when the 50% chance of exceedance forecast would be greater than the 30-year average streamflow.

AF - Acre-feet, forecasted volume of water are typically in thousands of acre-feet.

These forecasts are given to users to help make risk-based decisions. Users can select the forecast corresponding to the level of risk they are willing to accept in order to minimize the negative impacts of having more or less water than planned for.

To Decrease the Chance of Having Less Water than Planned for: A user might determine that making decisions based on a 50 percent chance of exceedance forecast is too much risk to take (there is still a 50% chance that the user will receive less than this amount). To reduce the risk of having less water than planned for, users can base their operational decisions on one of the forecasts with a greater chance of being exceeded such as the 90 or 70 percent exceedance forecasts.

To Decrease the Chance of Having More Water than Planned for: A user might determine that making decisions based on a 50 percent chance of exceedance forecast is too much risk to take (there is still a 50% chance that the user will receive more than this amount). To reduce the risk of having more water than planned for, users can base their operational decisions on one of the forecasts with a lesser chance of being exceeded such as the 30 or 10 percent exceedance forecasts.

Using the forecasts - an Example

Using the 50 Percent Exceedance Forecast. Using the example forecasts shown below, there is a 50% chance that actual streamflow volume at the Boise River near Twin Springs will be less than 685 KAF between April 1 and July 31. There is also a 50% chance that actual streamflow volume will be greater than 685 KAF.

Using the 90 and 70 Percent Exceedance Forecasts. If an unexpected shortage of water could cause problems (such as irrigated agriculture), users might want to plan on receiving 610 KAF (from the 70 percent exceedance forecast). There is a 30% chance of receiving *less* than 610 KAF.

Alternatively, if users determine the risk of using the 70 percent exceedance forecast is too great, then they might plan on receiving 443 KAF (from the **90** percent exceedance forecast). There is 10% chance of receiving less than 443 KAF.

Using the 30 or 10 Percent Exceedance Forecasts. If an unexpected excess of water could cause problems (such as operating a flood control reservoir), users might plan on receiving 760 KAF (from the 30 percent exceedance forecast). There is a 30% chance of receiving *more* than 760 KAF.

Alternatively, if users determine the risk of using the 30 percent exceedance forecast is too great, then they might plan on receiving 927 KAF (from the 10 percent exceedance forecast). There is a 10% chance of receiving more than 927 KAF.

Users could also choose a volume in between any of these values to reflect their desired risk level.

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OWYHEE AND MALHEUR BASINS
Streamflow Forecasts - February 1, 2006

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Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		=====		Chance Of Exceeding *		=====		
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
MALHEUR near Drewsey	FEB-JUL	148	184	210	165	238	282	127
	APR-SEP	87	110	128	168	147	177	76
NF MALHEUR at Beulah	FEB-JUL	108	127	141	157	156	178	90
OWYHEE RESV INFLOW (2)	FEB-JUL	602	792	935	134	1090	1340	700
	APR-SEP	341	473	575	134	687	869	430

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

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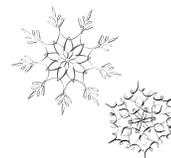
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