



United States
Department of
Agriculture



Natural Resources
Conservation
Service

Oregon Basin Outlook Report

April 1, 2009



(photo courtesy of Cyndee Hill)

The above photo was taken on March 30th at Finley Corrals Aerial Marker. This marker is located northwest of Lakeview, on the divide between the Klamath Basin and the Lake County and Goose Lake Basin. It is one of 41 aerial markers within the Oregon basins that are measured using visual observation by snow survey staff from a fixed wing aircraft or helicopter.

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General Outlook

April 1, 2009

SUMMARY

March brought new snow to all the basins of Oregon. As of April 1, many basins continued to accumulate snow, boosting water supply conditions throughout much of the state. As April begins with cool temperatures and lots of new snow in the mountains, many of the streamflow forecasts have improved measurably over last month's report.

Changes since March 1 to the water supply conditions varied greatly throughout Oregon. Portions of southeast Oregon (Lake County, Goose Lake and the Owyhee) did not show significant snowpack improvements in March. However, the April 1 snowpack in the Harney and Malheur basins did show measureable improvement over last month. Elsewhere in the state, water supply conditions improved notably in March.

Snowy, wintry weather was reported by snow surveyors throughout Oregon near the first of April. The late winter storms inhibited data collection at aerial marker sites in the Wallowa mountains and Owyhee basin. Flights in these areas were abbreviated when reduced visibility compromised safety and impaired data observations.

SNOWPACK

While portions of the state saw limited snow accumulation in February, March was colder and wetter than normal in most areas of Oregon. The cold precipitation brought much needed snow to the mountains. Snow measurement sites in the state showed a significant increase in snow water content from March 1 to April 1. Cold wet storms resupplied the snowpack.

Statewide, the snowpack measured 114 percent of average at SNOTEL sites on April 1, up from 87 percent of average on March 1. April 1 snowpacks ranged from 78 percent of average for the Harney basin to 131 percent of average in the Hood, Mile Creeks and Lower Deschutes basin. Most basins in Oregon reported near to above average snow water for April 1.

PRECIPITATION

March precipitation was near to above average for all basins in the state except for Lake County and Goose Lake basin. March was only the second month this water year where so many basins posted above average precipitation. March precipitation ranged from 81 percent of average for Lake County and Goose Lake basin to 178 percent of average for the Umatilla, Walla Walla, Willow, Rock and Lower John Day basin.

Statewide, most basins in Oregon are reporting below normal to near normal precipitation for the water year. Since the beginning of the water year, precipitation has ranged from 75 percent of average for Lake County and Goose Lake basin to 106 percent of average for the Umatilla, Walla Walla, Willow, Rock and Lower John Day basin.

RESERVOIRS

Reservoir refill prospects have improved in a number of basins where the snowpack has grown since last month.

The April 1 storage at 26 major Oregon reservoirs analyzed in this publication was 75 percent of average. A total of 1,865,600 acre feet of water were stored on April 1, representing 58 percent of useable capacity. Last year at this time these same reservoirs stored 1,809,000 acre feet of water.

STREAMFLOW

Projected summer streamflows have rebounded in many basins since the March 1 report due to gains in area snowpacks. April through September streamflow forecasts range from 63 percent of average for Clear Lake (CA) inflow in the Klamath basin to 115 percent of average for the Umatilla River above Meacham Creek near Gibbon.

Due to below normal snowpacks, water users in the Owyhee, Lake County and Goose Lake and Harney basins can expect that summer low flows will arrive earlier this season than normal.

There is much regional variability in the water supply outlook for Oregon as of April 1. Some Oregon water users will face reduced supply this coming summer. Through advance planning, it is hoped that water users can begin conservation measures early to limit the effects of the low water supply.

STREAM	PERIOD	PERCENT OF AVERAGE
Owyhee Reservoir Inflow	April-September	69
Grande Ronde R at La Grande	April-September	100
Umatilla R at Pendleton	April-September	114
Deschutes R at Benham Falls	April-September	95
MF Willamette bl NF	April-September	105
Rogue R at Raygold	April-September	88
Upper Klamath Lake Inflow	April-September	78
Silvies R nr Burns	April-September	86

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

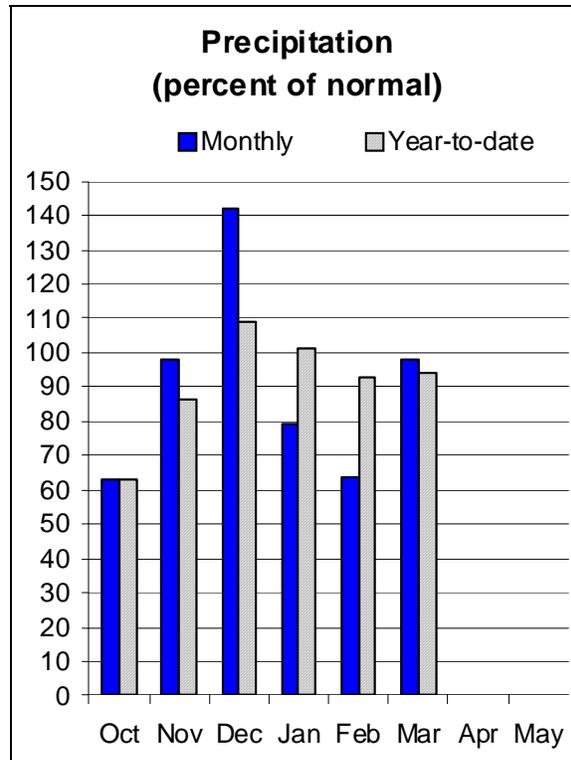
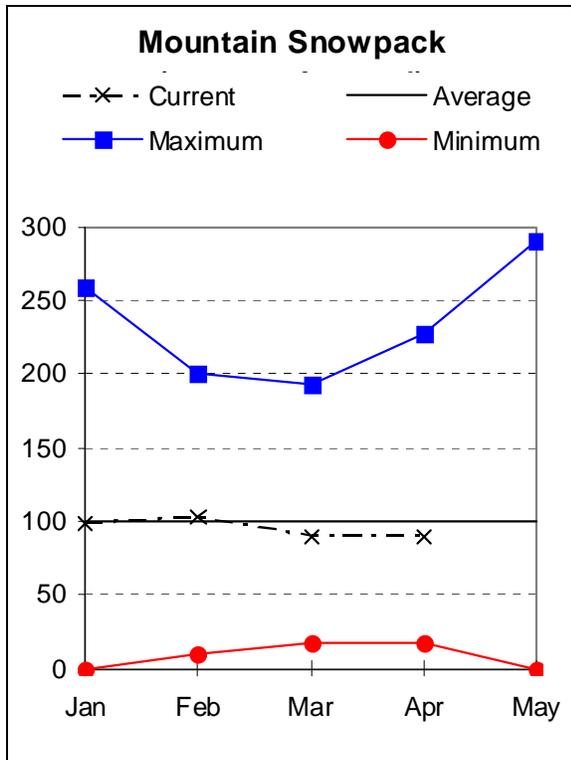
The forecasts in this bulletin are a result of coordinated activity between the Natural Resources Conservation Service and the National Weather Service as an effort to provide the best possible service to water users.

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

April 1, 2009



Water Supply Outlook

The April 1 snowpack in the combined Owyhee and Malheur basins was 90 percent of average. The Owyhee is one of the basins in Oregon that did not see a significant increase in snowpack during the month of March. The snowpack in the Malheur basin however, grew significantly since last month. Measurements were taken at 14 aerial markers, 10 SNOTEL sites and 6 snow courses.

March precipitation in the Owyhee and Malheur basin was 98 percent of average. Since the beginning of the water year, precipitation in the basin has been 94 percent of average.

At the end of February, storage at Beulah, Bully Creek, Owyhee and Warm Springs reservoirs was 54 percent of average and 44 percent of capacity. The April through September streamflow forecasts range from 69 to 85 percent of average, an improvement since last month.

Water users in the basin can expect well below to slightly below average water supply conditions for the April through September period.

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 - April 1, 2009

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)				
Malheur R nr Drewsey	APR-SEP	34	50	62	82	76	99	76
NF Malheur R at Beulah	APR-JUL	36	45	52	87	59	70	60
	APR-SEP	40	49	56	85	63	75	66
Owyhee Reservoir Inflow (2)	APR-JUL	32	153	280	70	407	556	400
	APR-SEP	39	169	295	69	421	607	430
Owyhee R nr Rome	APR-JUL	128	211	280	74	358	491	380
	APR-SEP	139	225	295	74	375	509	400

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

OWYHEE AND MALHEUR BASINS
Watershed Snowpack Analysis - April 1, 2009

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	27.2	27.3	47.2	Owyhee	21	62	89
BULLY CREEK	30.0	15.7	16.4	24.1	Upper Malheur	5	55	95
OWYHEE	715.0	354.4	316.6	593.0	Jordan Creek	4	59	88
WARMSPRINGS	191.0	36.9	37.7	133.5	Bully Creek	0	0	0
					Willow Creek	2	44	129

* 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.

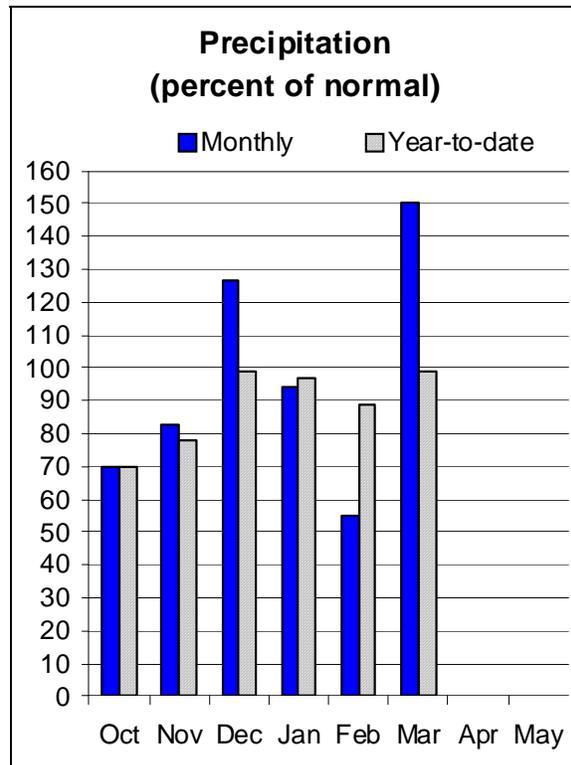
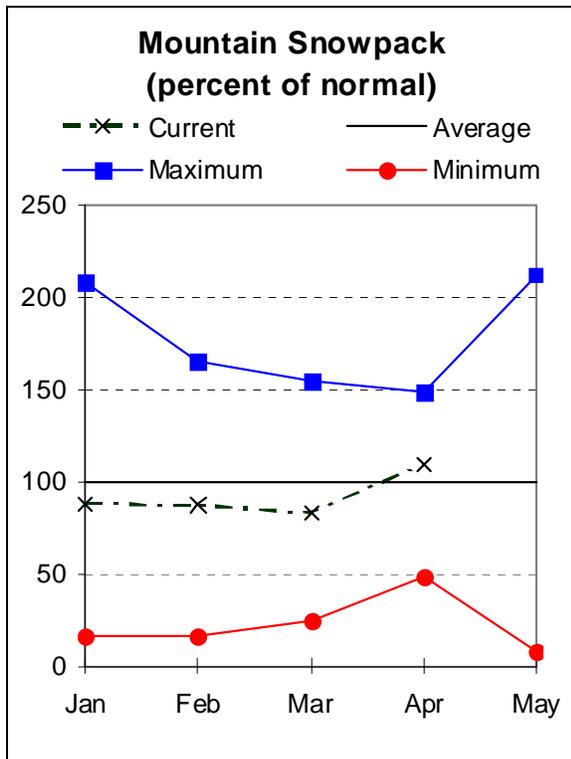
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Burnt, Powder, Grand Ronde, and Imnaha Basins

April 1, 2009



Water Supply Outlook

The April 1 snowpack in the basin was 109 percent of average. This represents a significant improvement from March 1 average conditions. Measurements were taken at 15 SNOTEL sites, 3 aerial markers and 7 snow courses.

March precipitation in the basin was 150 percent of average. Since the beginning of the water year, precipitation in the basin has been 99 percent of average.

At the end of March, storage at Phillips, Thief and Unity reservoirs was 85 percent of average and 66 percent of capacity. The April through September streamflow forecasts range from 77 to 100 percent of average.

Water users in the basin can expect below average water supply conditions for the April through September period with the exception of those water users in the Catherine Creek and Grande Ronde tributaries.

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 - April 1, 2009

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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)
Bear Ck nr Wallowa	APR-SEP	46	56	62	95	68	78	65
Burnt R nr Hereford	APR-SEP	17.8	25	30	77	36	45	39
Catherine Ck nr Union	APR-JUL	45	53	59	95	65	75	62
	APR-SEP	49	57	63	96	69	79	66
Deer Ck nr Sumpter	APR-JUL	10.4	13.3	15.4	100	17.7	21	15.4
Grande Ronde R at La Grande	APR-SEP	125	161	188	100	217	264	188
Grande Ronde R at Troy	APR-SEP	962	1215	1330	97	1445	1698	1370
Imnaha R at Imnaha	APR-JUL	161	202	230	85	258	299	270
	APR-SEP	177	220	250	85	280	323	295
Lostine R nr Lostine	APR-JUL	81	91	99	88	107	119	112
	APR-SEP	84	96	104	86	113	126	121
Pine Ck nr Oxbow	APR-JUL	93	118	135	91	152	177	148
	APR-SEP	99	124	141	92	158	183	154
Powder R nr Sumpter	APR-JUL	37	44	50	86	56	65	58
	APR-SEP	37	45	51	86	57	67	59
Wolf Ck Reservoir Inflow (2)	APR-JUN	8.9	12.2	14.4	97	16.6	19.9	14.8

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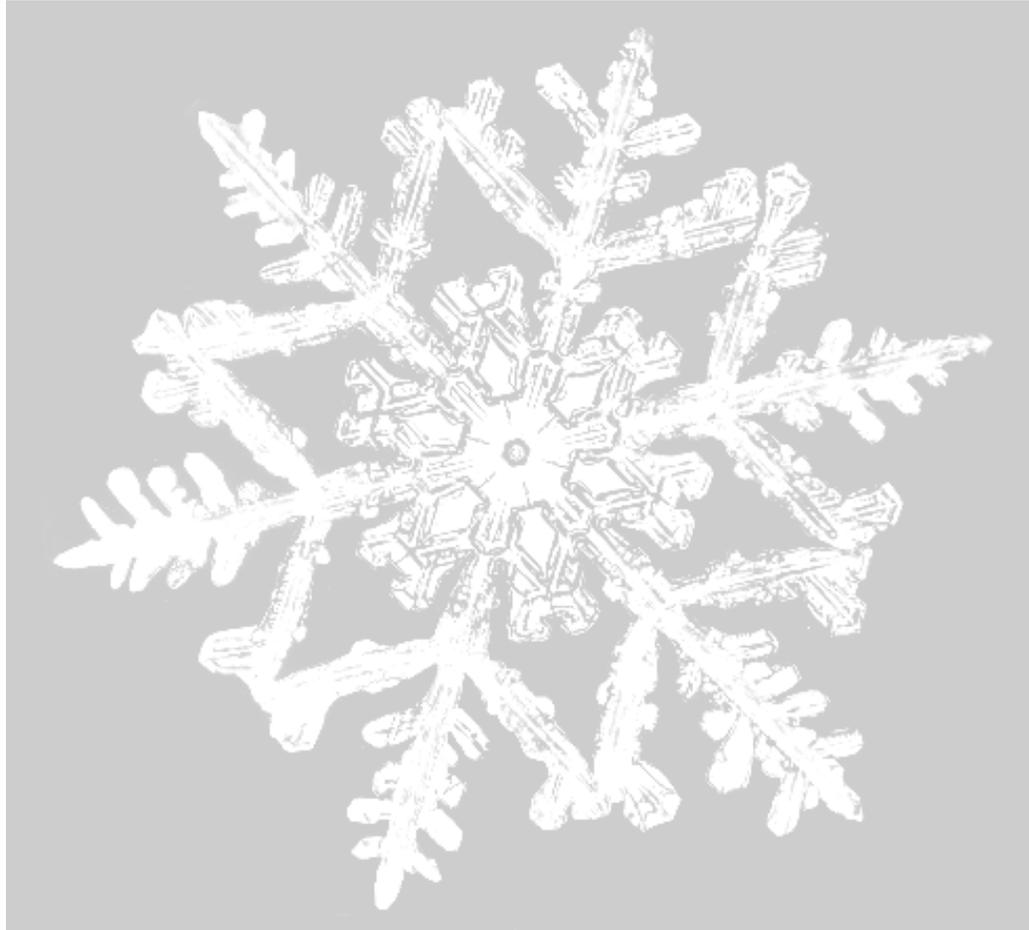
BURNT, POWDER, PINE, GRANDE RONDE AND IMNAHA BASINS Reservoir Storage (1000 AF) - End of March					BURNT, POWDER, PINE, GRANDE RONDE AND IMNAHA BASINS Watershed Snowpack Analysis - April 1, 2009			
Reservoir	Usable Capacity	*** Usable Storage *** This Year Last Year Avg			Watershed	Number of Data Sites	This Year as % of Last Yr Average	
PHILLIPS LAKE	73.5	43.4	16.3	50.8	Upper Grande Ronde	11	89	125
THIEF VALLEY	17.4	13.7	13.6	17.9	Wallowa	7	91	106
UNITY	25.2	19.4	15.4	21.1	Imnaha	5	87	93
WALLOWA LAKE		NO REPORT			Powder	12	87	103
WOLF CREEK	10.4	4.3	1.6	5.8	Burnt	4	62	106

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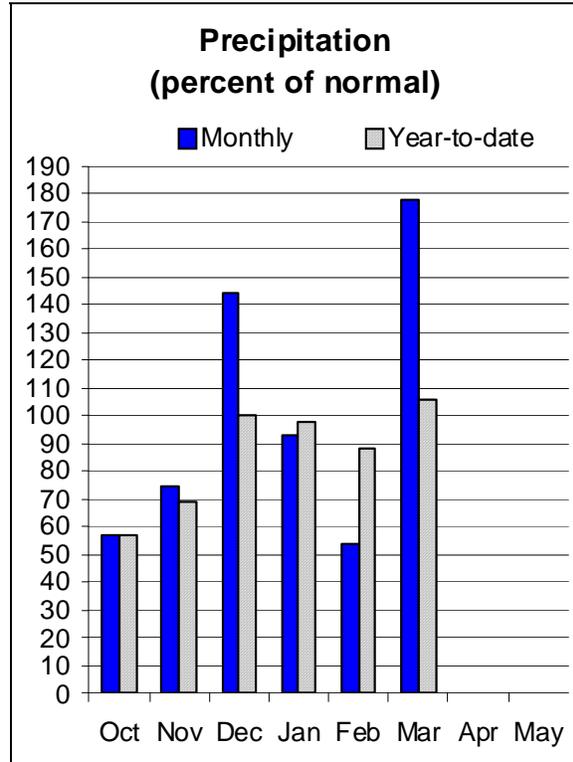
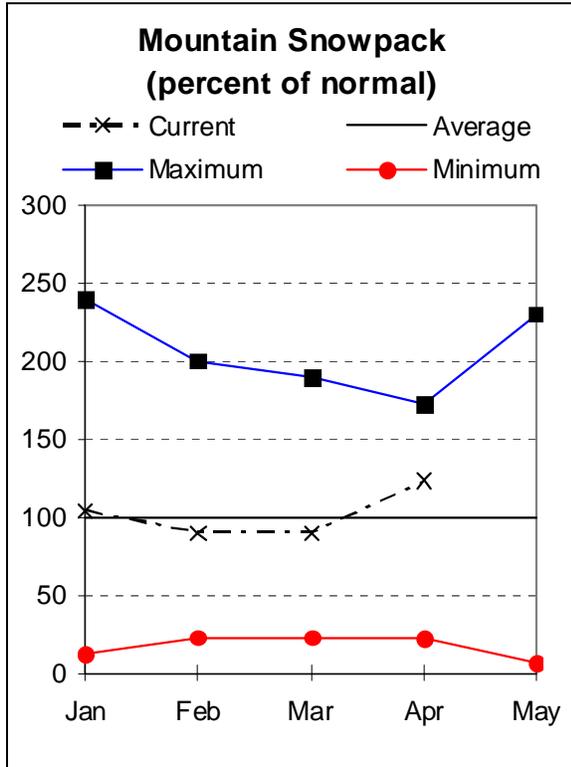
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Umatilla, Walla Walla, Willow Rock, and Lower John Day Basins

April 1, 2009



Water Supply Outlook

The April 1 snowpack in the basin was 123 percent of average. Of all the basins in Oregon, this was the greatest increase since last month. Measurements were taken at 7 SNOTEL sites and 2 snow courses.

March precipitation in the basin was 178 percent of average, the highest in the state. Since the beginning of the water year, precipitation in the basin has been 106 percent of average.

At the end of March, storage at McKay and Cold Springs reservoirs was 86 percent of average and 68 percent of capacity. The April through September streamflow forecasts range from 95 to 115 percent of average, an improved outlook from last month. Water users in the basin can expect near average water supply conditions for the April through September period.

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>

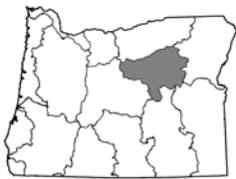
UMATILLA, WALLA WALLA, WILLOW, ROCK AND LOWER JOHN DAY BASINS
Streamflow Forecasts - April 1, 2009

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>					30-Yr Avg. (1000AF)	
		90%		50%		10%		
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)		(1000AF)
Butter Ck nr Pine City	APR-JUL	5.0	7.3	8.9	95	10.5	12.8	9.4
	APR-SEP	5.7	8.1	9.7	95	11.3	13.7	10.2
McKay Ck nr Pilot Rock	APR-SEP	13.0	23	30	111	37	47	27
Rhea Ck nr Heppner	APR-JUL	1.6	4.3	6.1	100	7.9	10.6	6.1
Umatilla R ab Meacham Ck nr Gibbon	APR-JUL	62	75	84	115	93	106	73
	APR-SEP	69	82	91	115	100	113	79
Umatilla R at Pendleton	APR-JUL	120	150	170	114	190	220	149
	APR-SEP	126	156	177	114	198	230	155
SF Walla Walla R nr Milton-Freewater	APR-JUL	44	50	54	100	58	64	54
	APR-SEP	55	62	67	100	72	79	67
Willow Ck ab Willow Ck Lake nr Heppn	APR-JUL	2.9	5.2	6.8	92	8.4	10.7	7.4

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 March					Watershed Snowpack Analysis - April 1, 2009			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
COLD SPRINGS	50.0	27.7	26.4	40.1	Walla Walla	3	89	121
MCKAY	73.8	55.9	41.0	56.6	Umatilla	7	88	128
WILLOW CREEK	1.8	1.6	1.5	---	McKay Creek	4	89	148

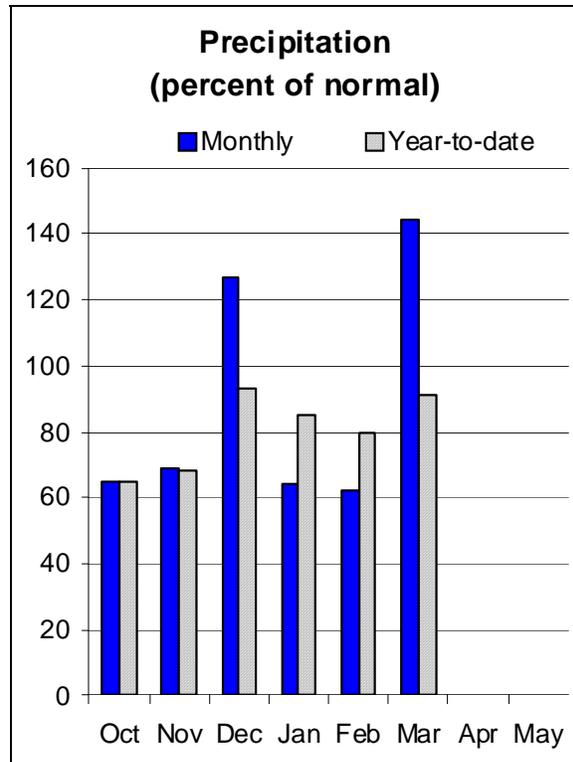
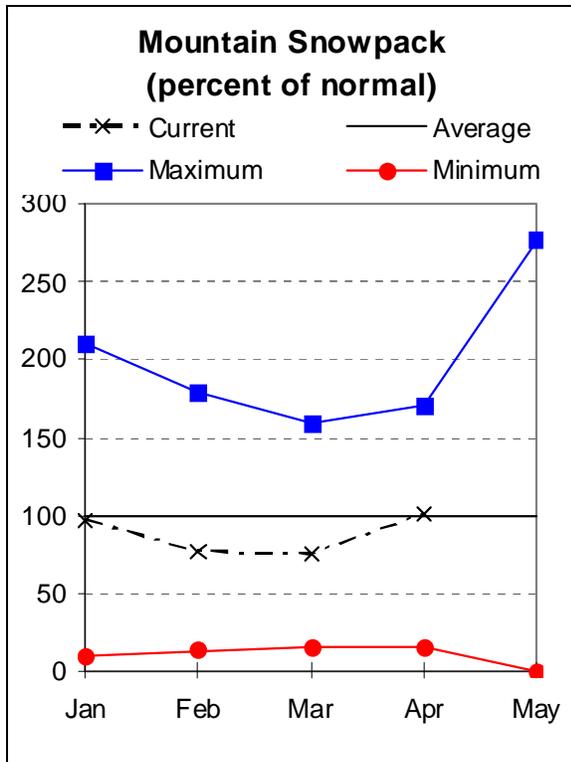
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Upper John Day Basin

April 1, 2009



Water Supply Outlook

The April 1 snowpack in the Upper John Day basin was 101 percent of average. The basin snowpack increased significantly during the month of March. Measurements were taken at 13 SNOTEL sites and 1 snow course.

Total precipitation since the beginning of the water year has been 91 percent of average. March precipitation in the Upper John Day basin was 144 percent of average.

Water supply forecasts for the April through September period range from 91 percent of average to 99 percent of average, a significant improvement from last month. Depending on the timing of the snowmelt, Upper John Day water users can expect near to average summer streamflow conditions.

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 - April 1, 2009

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)	
Camas Ck nr Ukiah	APR-JUL	24	31	36	97	41	48	37		
	APR-SEP	25	32	37	97	42	49	38		
MF John Day R at Ritter	APR-JUL	76	100	116	94	132	156	123		
	APR-SEP	79	103	120	94	137	161	128		
NF John Day R at Monument	APR-JUL	370	470	540	91	610	710	595		
	APR-SEP	385	490	560	91	630	735	615		
Mountain Ck nr Mitchell	APR-JUL	2.5	3.6	4.4	98	5.2	6.3	4.5		
	APR-SEP	2.6	3.8	4.6	99	5.4	6.6	4.6		
Strawberry Ck nr Prairie City	APR-JUL	4.5	6.0	7.0	99	8.0	9.5	7.1		
	APR-SEP	5.0	6.6	7.6	97	8.6	10.2	7.8		

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

UPPER JOHN DAY BASIN
Watershed Snowpack Analysis - April 1, 2009

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
					North Fork John Day	7	77	98
					John Day above Kimberly	5	78	97

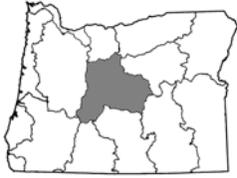
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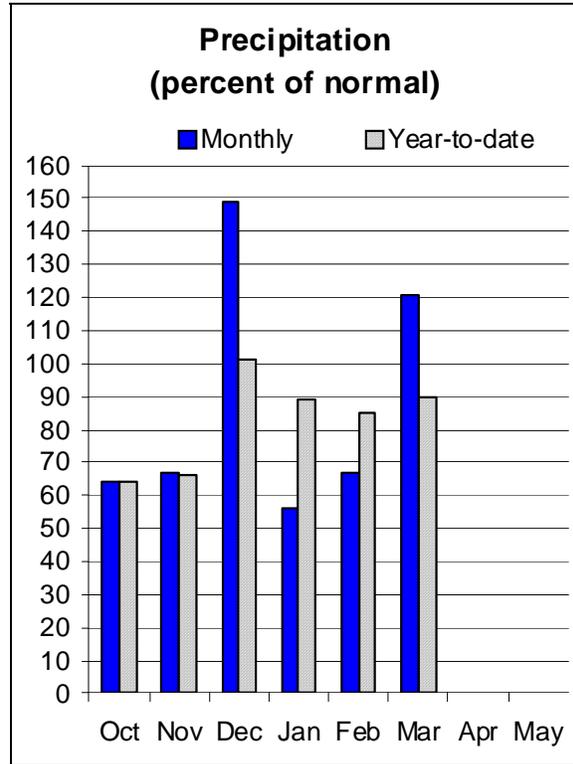
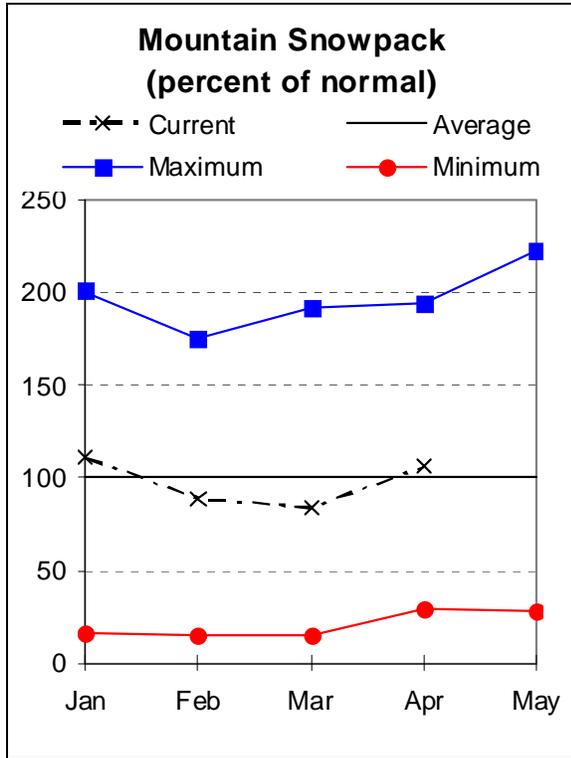
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Or visit: <http://www.wcc.nrcs.usda.gov/cgibin/bor.pl>



Upper Deschutes and Crooked Basins

April 1, 2009



Water Supply Outlook

The April 1 snowpack in the Upper Deschutes and Crooked basin was 106 percent of average. The basin snowpack increased significantly during the month of March. Measurements were taken at 14 SNOTEL sites and 3 snow courses.

March precipitation in the basin was 121 percent of average. Since the beginning of the water year, precipitation in the basin has been 90 percent of average.

At the end of March, storage at 5 basin reservoirs was 102 percent of average or 85 percent of capacity. The April through September streamflow forecasts range from 92 to 100 percent of average, a greatly improved outlook from last month. Depending on the timing of snowmelt, water users in the Upper Deschutes and Crooked River basin can expect near to average to slightly below average streamflows this 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 - April 1, 2009

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)
Crane Prairie Reservoir Inflow (2)	APR-JUL	44	52	58	98	64	72	59
	APR-SEP	75	85	92	99	99	109	93
Crescent Ck nr Crescent (2)	APR-JUL	9.6	13.6	16.3	95	19.0	23	17.2
	APR-SEP	13.5	17.4	20	95	23	26	21
Deschutes R at Benham Falls nr Bend	APR-JUL	310	320	330	94	340	350	350
	APR-SEP	475	490	500	95	510	525	525
Deschutes R bl Snow Ck nr La Pine	APR-JUL	21	28	32	97	36	43	33
	APR-SEP	44	52	57	97	62	70	59
Little Deschutes R nr La Pine (2)	APR-JUL	54	62	67	94	72	80	71
	APR-SEP	62	70	76	95	82	90	80
Ochoco Reservoir Inflow (2)	APR-JUL	11.2	17.6	22	100	26	33	22
	APR-SEP	11.5	17.7	22	100	26	33	22
Prineville Reservoir Inflow (2)	APR-JUL	50	83	105	97	127	160	108
	APR-SEP	50	83	106	97	129	162	109
Whychus Ck nr Sisters	APR-JUL	29	31	33	92	35	37	36
	APR-SEP	40	43	45	92	47	50	49

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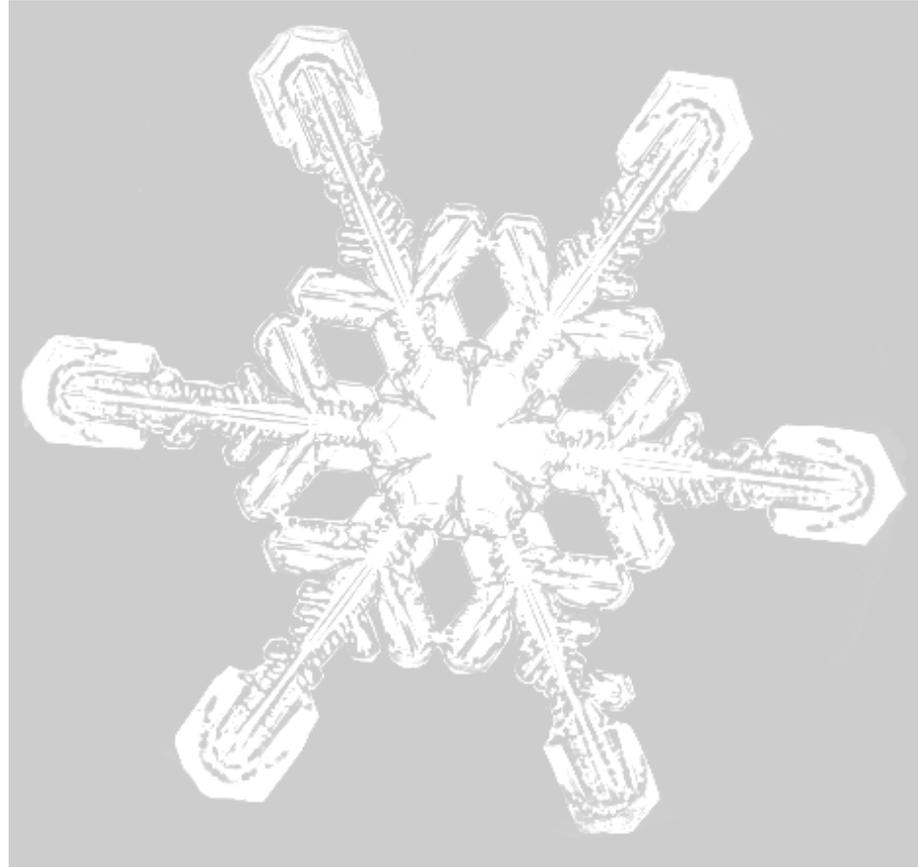
UPPER DESCHUTES AND CROOKED BASINS Reservoir Storage (1000 AF) - End of March					UPPER DESCHUTES AND CROOKED BASINS Watershed Snowpack Analysis - April 1, 2009			
Reservoir	Usable Capacity	*** Usable Storage This Year	Last Year	*** Avg	Watershed	Number of Data Sites	This Year as % of Last Yr	% of Average
CRANE PRAIRIE	55.3	47.9	46.6	43.9	Crooked	4	71	85
CRESCENT LAKE	86.9	65.2	49.5	53.5	Little Deschutes	4	72	110
OCHOCO	47.5	28.4	31.8	32.6	Deschutes above Wickiup R	4	71	120
PRINEVILLE	153.0	120.5	116.9	132.9	Tumalo and Squaw Creeks	5	78	105
WICKIUP	200.0	200.1	197.2	189.7				

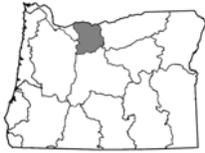
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

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.
- (2) - The value is natural volume - actual volume may be affected by upstream water management.

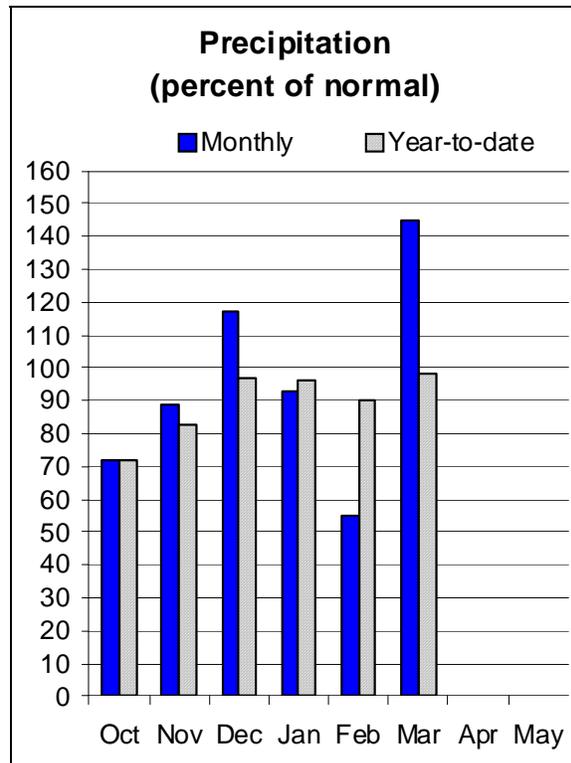
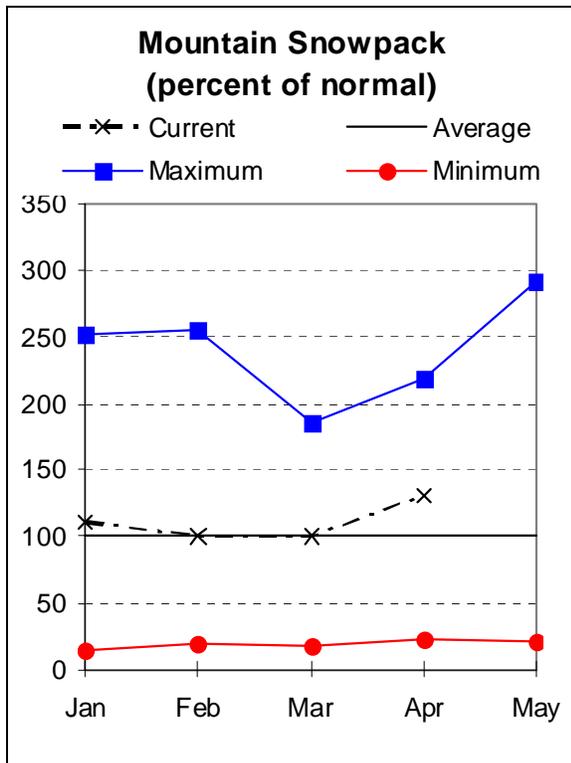
For more information contact your local Natural Resources Conservation Service Office:
Redmond (541) 923-4358
Or visit: <http://www.wcc.nrcs.usda.gov/cgibin/bor.pl>





Hood, Mile Creeks, and Lower Deschutes Basins

April 1, 2009



Water Supply Outlook

The April 1 snowpack in the Hood, Miles Creeks and Lower Deschutes basin was 131 percent of average. The snowpack in the basin increased significantly during the month of March. Snow measurements were recorded at 7 SNOTEL sites and 1 snow course in the basin.

Since the beginning of the water year, precipitation in the basin has been 98 percent of average.

The April through September streamflow forecast for Hood River at Tucker Bridge is 109 percent of average.

Water users in the Hood, Mile Creeks, and Lower Deschutes basin can expect near normal streamflows this summer.

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 - April 1, 2009

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>					30-Yr Avg. (1000AF)					
		90%		70%		50%		30%		10%		
		(1000AF)	(1000AF)	(1000AF)	(1000AF)	(% AVG.)		(1000AF)	(1000AF)	(1000AF)	(1000AF)	(1000AF)
Hood R at Tucker Bridge	APR-JUL	210	235	250	110	265	290	228				
	APR-SEP	245	275	295	109	315	345	271				

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

HOOD, MILE CREEKS AND LOWER DESCHUTES BASINS
Watershed Snowpack Analysis - April 1, 2009

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	5.7	1.5	4.5	Hood River	6	65	122
					Mile Creeks	1	69	171
					White River	6	77	130

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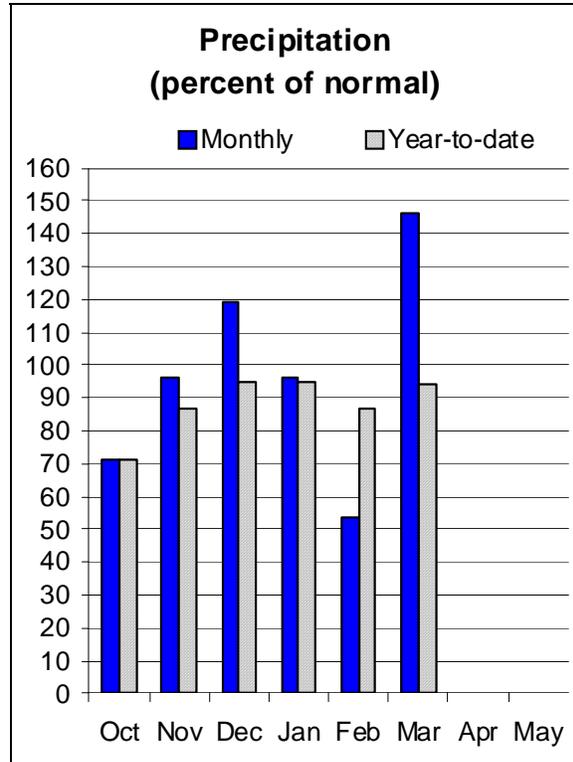
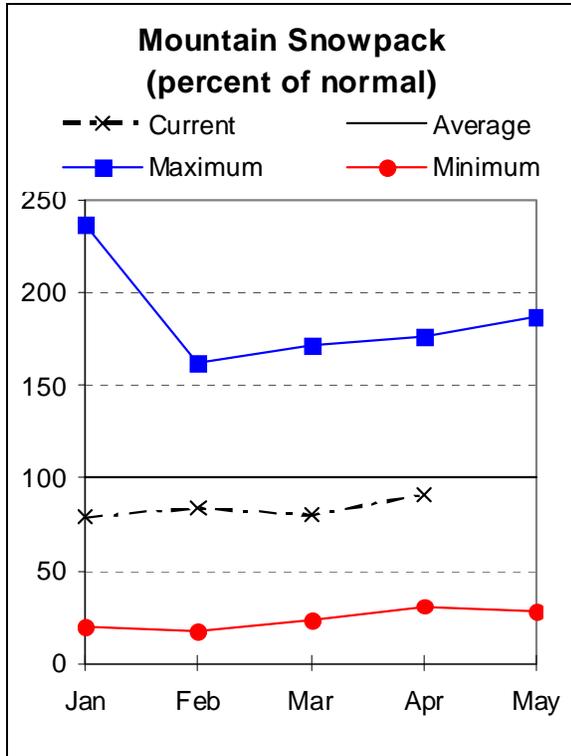
For more information contact your local Natural Resources Conservation Service Office:
The Dalles (541) 296-6178

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Lower Columbia Basin

April 1, 2009



Water Supply Outlook

Cold March temperatures and above average precipitation over most of the Columbia Basin produced much new snow in the mountains.

The combined snowpack for the Columbia River above The Dalles is currently at 91 percent of average. This is up 11 percent from last month. March precipitation was 94 of average over the entire Columbia Basin.

The April through September streamflow forecast for the Columbia at The Dalles is 88 percent of average. The April through September streamflow forecast for the Sandy near Marmot is 110 percent of average.

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>

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LOWER COLUMBIA BASIN
Streamflow Forecasts - April 1, 2009

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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)
Columbia R at The Dalles (2)	APR-JUL	63400	71500	75200	89	78900	87000	84600
	APR-SEP	73400	82900	87200	88	91500	101000	98600
Sandy R nr Marmot	APR-JUL	300	325	345	110	365	390	313
	APR-SEP	350	380	400	110	420	450	363

LOWER COLUMBIA BASIN Reservoir Storage (1000 AF) - End of March					LOWER COLUMBIA BASIN Watershed Snowpack Analysis - April 1, 2009			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
					Sandy	8	66	141

* 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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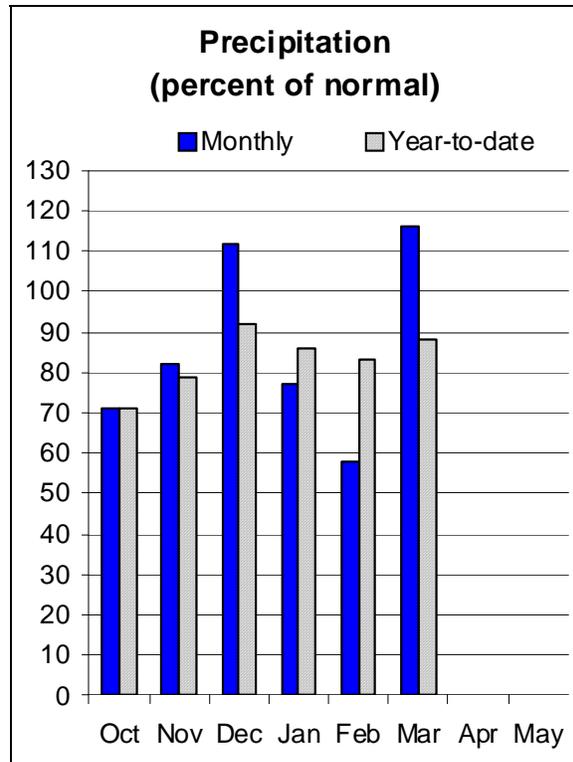
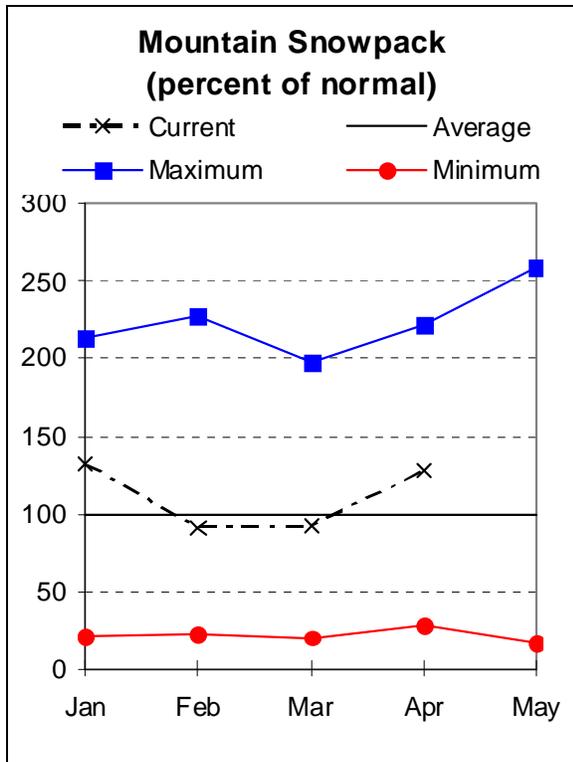
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Oregon City - (503) 656-3499

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



Willamette Basin

April 1, 2009



Water Supply Outlook

The April 1 snowpack in the Willamette basin was 128 percent of average. The snowpack in the Willamette basin increased significantly during the month of March. Snow measurements were taken at 20 SNOTEL sites and 3 snow courses.

March precipitation in the Willamette basin was 116 percent of average. Since the beginning of the water year, precipitation in the basin has been 88 percent of average.

At the end of March, storage at Henry Hagg and Timothy Lake reservoirs was near average. April through September streamflow forecasts in the Willamette basin range from 86 to 110 percent of average.

Most water users in the Willamette basin can expect near average streamflows this coming summer. Water users in the lower elevation tributaries can expect below average conditions where snowmelt is not a large contributor to streamflow.

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 - April 1, 2009

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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)	APR-MAY	35	53	61	91	69	87	67
	APR-SEP	49	71	81	94	91	113	86
Clackamas R at Estacada (2)	APR-JUL	550	630	685	107	740	820	640
	APR-SEP	660	740	800	107	860	940	748
Clackamas R ab Three Lynx (2)	APR-JUL	415	470	505	107	540	595	474
	APR-SEP	505	560	600	107	640	695	562
Cottage Grove Lake Inflow (1,2)	APR-MAY	12.7	25	31	94	37	49	33
	APR-SEP	22	38	45	105	52	68	43
Cougar Lake Inflow (1,2)	APR-MAY	96	122	134	95	146	172	141
	APR-SEP	167	205	220	96	235	275	230
Detroit Lake Inflow (1,2)	APR-MAY	250	320	350	100	380	450	349
	APR-SEP	500	600	645	105	690	790	616
Dorena Lake Inflow (1,2)	APR-MAY	61	95	110	102	125	159	108
	APR-SEP	69	112	132	108	152	195	122
Fall Creek Lake Inflow (1,2)	APR-MAY	48	70	80	95	90	112	84
Fern Ridge Lake Inflow (1,2)	APR-MAY	15.2	33	41	89	49	67	46
	APR-SEP	24	40	47	94	54	70	50
Foster Lake Inflow (1,2)	APR-MAY	230	330	380	102	430	530	371
	APR-JUL	295	445	515	105	585	735	490
	APR-SEP	330	485	555	105	625	780	527
Green Peter Lake Inflow (1,2)	APR-MAY	135	200	230	93	260	325	248
	APR-JUL	173	270	315	96	360	455	327
	APR-SEP	197	295	340	96	385	485	354

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WILLAMETTE BASIN
Streamflow Forecasts - April 1, 2009

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)	
Hills Creek Lake Inflow (1,2)	APR-MAY	125	167	186	100	205	245	186
	APR-JUL	210	270	295	107	325	380	277
	APR-SEP	245	310	340	106	370	435	320
	JUN-OCT	95	127	141	86	155	187	164
Little North Santiam R nr Mehama (1)	APR-JUL	87	121	136	102	151	185	133
	APR-SEP	95	130	146	102	162	197	143
Lookout Point Lake Inflow (1,2)	APR-MAY	305	415	465	95	515	625	492
	APR-JUL	555	690	750	103	810	945	726
	APR-SEP	600	770	850	103	930	1100	828
	JUN-OCT	240	325	360	90	395	480	402
McKenzie R bl Trail Bridge (2)	APR-JUL	235	250	265	100	280	295	266
	APR-SEP	375	395	405	100	415	435	404
McKenzie R nr Vida (1,2)	APR-JUL	745	885	945	97	1010	1140	977
	APR-SEP	925	1080	1150	96	1220	1370	1201
Oak Grove Fork R ab Power Intake	APR-JUL	124	135	143	110	151	162	130
	APR-SEP	157	173	184	110	195	210	167
North Santiam R at Mehama (1,2)	APR-JUL	555	690	750	103	810	945	732
	APR-SEP	650	790	850	102	910	1050	834
South Santiam R at Waterloo (2)	APR-JUL	385	500	575	105	650	765	549
	APR-SEP	425	535	615	105	695	805	587
Thomas Ck nr Scio	APR-JUL	40	56	67	89	78	94	75
MF Willamette R bl NF (1,2)	APR-MAY	335	430	475	101	520	615	471
	APR-JUL	520	670	735	105	800	950	698
	APR-SEP	615	770	840	105	910	1060	798
	JUN-OCT	260	330	360	92	390	460	391
Willamette R at Salem (1,2)	APR-MAY	1810	2680	3080	98	3480	4350	3140
	APR-JUL	2770	3860	4350	100	4840	5930	4347
	APR-SEP	3330	4350	4810	100	5270	6290	4804

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>

WILLAMETTE BASIN Reservoir Storage (1000 AF) - End of March					WILLAMETTE BASIN Watershed Snowpack Analysis - April 1, 2009			
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	51.7	49.4	52.6	Clackamas	7	73	151
COTTAGE GROVE	29.8	15.7	15.5	18.5	McKenzie	8	63	119
COUGAR	155.2	63.9	85.8	150.5	Row River	1	73	128
DETROIT	300.7	157.3	173.7	222.0	Santiam	6	50	117
DORENA	70.5	34.8	34.7	45.3	Middle Fork Willamette	7	73	120
FALL CREEK	115.5	78.4	72.3	71.1				
FERN RIDGE	109.6	74.4	72.1	77.1				
FOSTER	29.7	0.3	13.1	12.4				
GREEN PETER	268.2	192.7	160.8	236.2				
HILLS CREEK	200.2	119.3	129.9	169.1				
LOOKOUT POINT	337.0	175.2	217.3	188.7				
TIMOTHY LAKE	61.7	52.0	43.2	51.6				
HENRY HAGG LAKE	53.0	50.8	50.8	49.8				

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

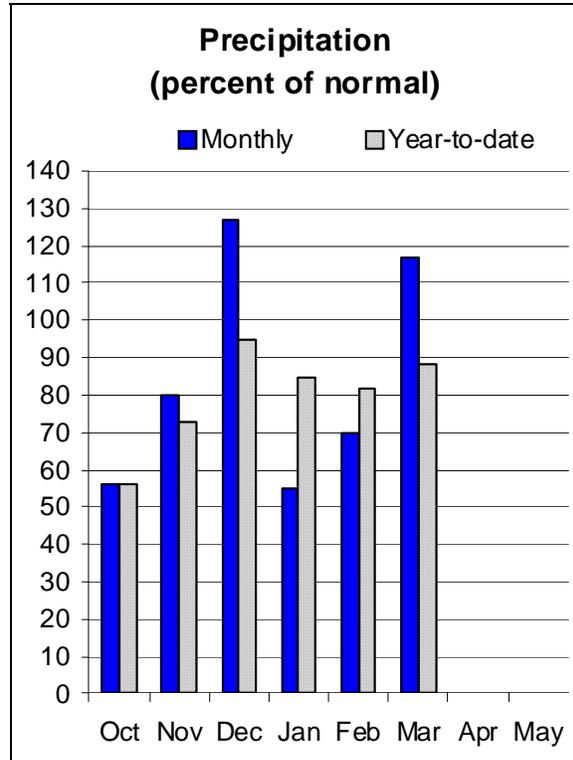
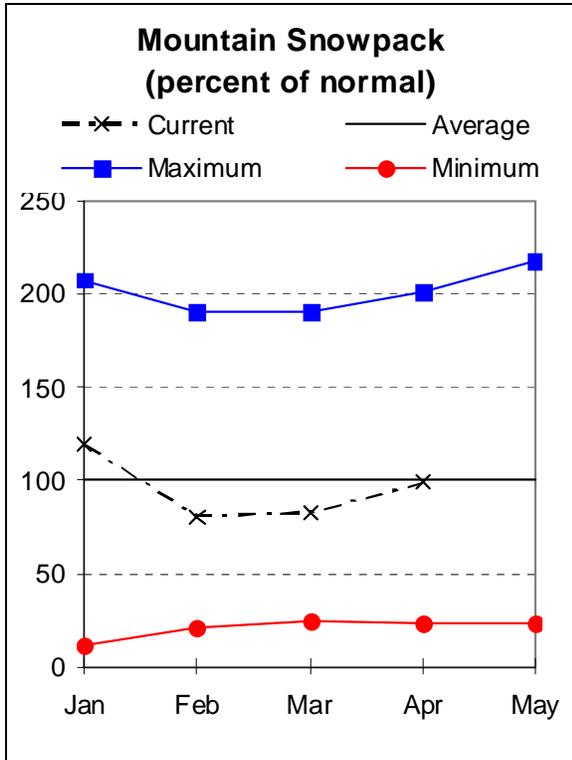
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Salem - (503) 399-5746; Dallas - (503) 623-5534

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Rogue and Umpqua Basins

April 1, 2009



Water Supply Outlook

The snowpack in the Rogue and Umpqua basin increased significantly during the month of March. The April 1 snowpack in the Rogue and Umpqua basin was 99 percent of average compared to 83 percent on March 1. Measurements were taken at 11 SNOTEL sites and 19 snow courses.

March precipitation in the Rogue and Umpqua basin was 117 percent of average. Since the beginning of the water year, precipitation in the basin has been 88 percent of average.

At the end of March, storage at five Rogue and Umpqua basin reservoirs was 108 percent of average or 83 percent of capacity.

April through September streamflow forecasts for the basin range from 72 to 110 percent of average, a slightly improved outlook from last month. Depending on their source, water users in the basin can expect well below to average water availability 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 - April 1, 2009

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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)	APR-JUL	50	68	81	72	94	112	112
	APR-SEP	54	73	86	72	99	118	119
SF Big Butte Ck nr Butte Falls	APR-JUL	26	33	37	109	41	48	34
	APR-SEP	35	42	47	108	52	59	44
Cow Ck nr Azalea (2)	APR-JUL	6.4	12.4	16.5	100	21	27	16.5
	APR-SEP	7.4	13.6	17.8	101	22	28	17.7
Hyatt Prairie Reservoir Inflow (2)	APR-JUL	2.9	4.3	5.3	110	6.3	7.7	4.8
Illinois R at Kerby	APR-JUL	43	104	146	82	188	250	179
	APR-SEP	47	108	150	81	192	255	186
NF Little Butte Ck nr Lakecreek (2)	APR-JUL	27	32	35	110	38	43	32
	APR-SEP	42	47	51	110	55	60	46
Lost Creek Lake Inflow (2)	APR-JUL	420	475	510	96	545	600	530
	APR-SEP	535	600	640	96	680	745	665
Rogue R at Raygold (2)	APR-JUL	440	560	640	88	720	840	730
	APR-SEP	570	695	780	88	865	990	890
Rogue R at Grants Pass (2)	APR-JUL	460	595	690	93	785	920	740
	APR-SEP	570	720	820	93	920	1070	885
Sucker Ck bl Ltl Grayback Ck nr Holl	APR-JUL	16.3	31	41	79	51	66	52
	APR-SEP	19.1	34	44	79	54	69	56
North Umpqua R at Winchester	APR-JUL	565	705	800	101	895	1030	795
	APR-SEP	680	825	920	100	1020	1160	920
South Umpqua R nr Brockway	APR-JUL	215	340	420	105	500	625	400
	APR-SEP	235	355	440	105	525	645	420
South Umpqua R at Tiller	APR-JUL	117	166	200	104	235	285	193
	APR-SEP	126	176	210	102	245	295	205

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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 March					ROGUE AND UMPQUA BASINS Watershed Snowpack Analysis - April 1, 2009			
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	32.5	38.8	46.9	Applegate	6	60	77
EMIGRANT LAKE	39.0	34.0	37.3	34.4	Bear Creek	5	56	67
FISH LAKE	8.0	6.3	5.0	5.8	Little Butte Creek	6	68	123
FOURMILE LAKE	16.1	12.4	11.1	10.2	Illinois	4	52	110
HOWARD PRAIRIE	60.0	47.5	46.7	44.9	North Umpqua	6	53	113
HYATT PRAIRIE	16.1	15.6	15.5	12.3	Rogue River above Grants	21	63	96
LOST CREEK	315.0	131.9	133.1	263.2				

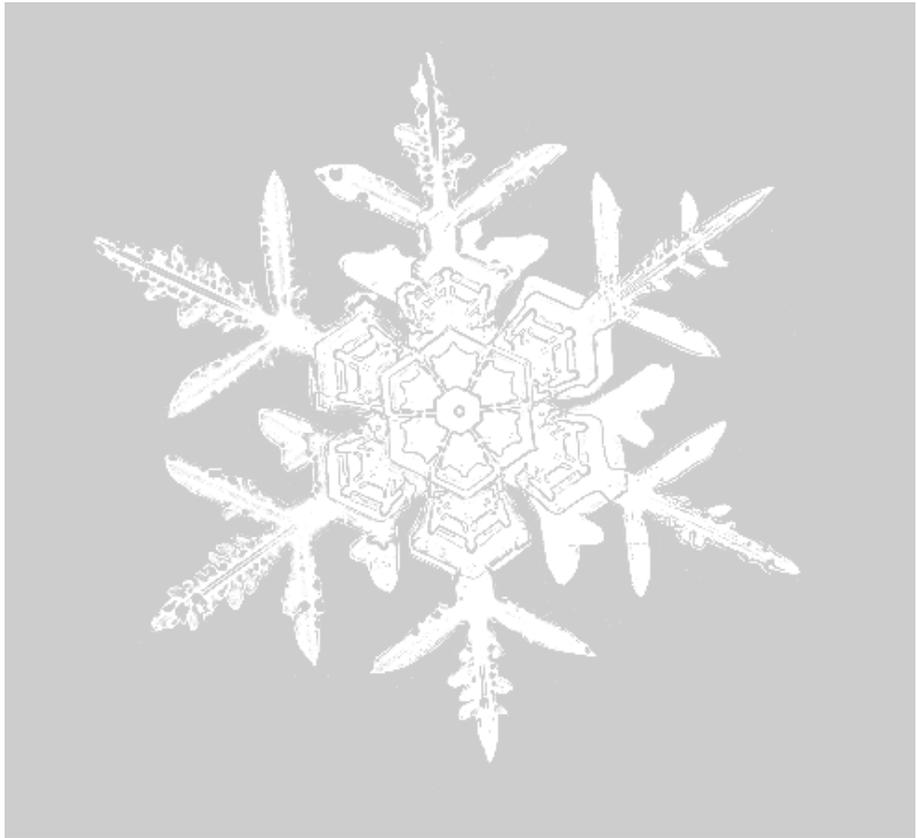
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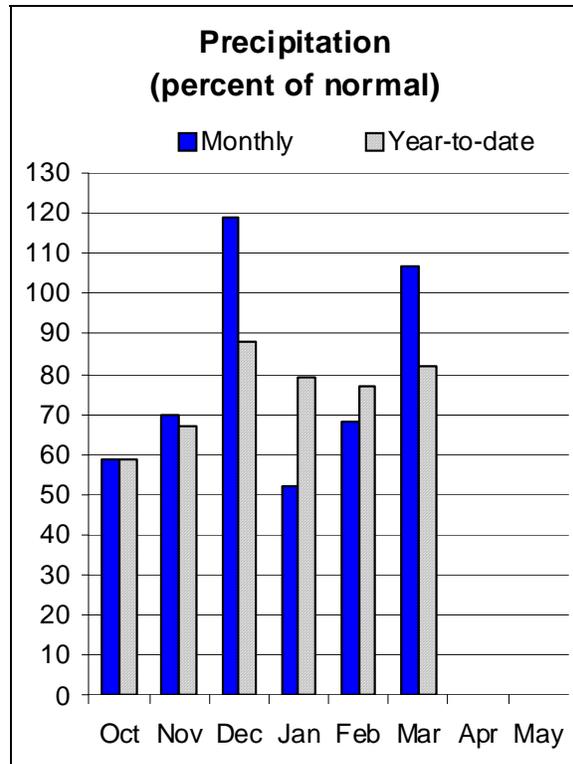
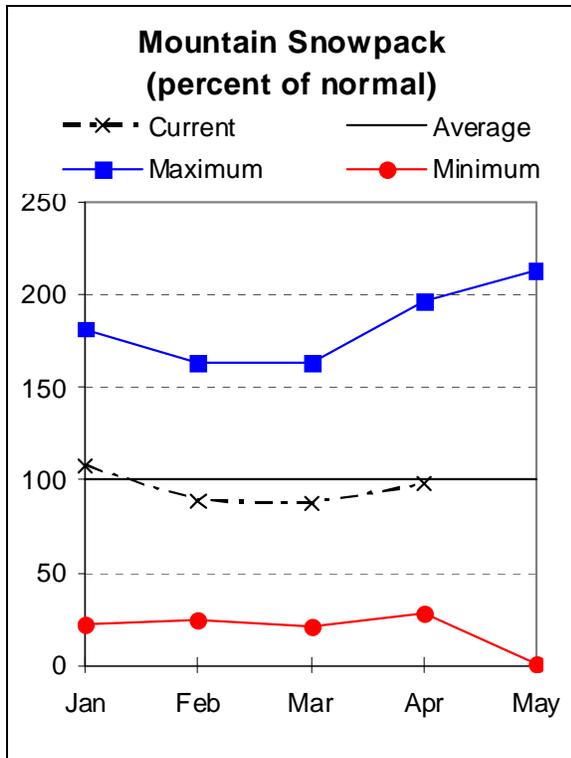
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 Or visit: <http://www.wcc.nrcs.usda.gov/cgi-bin/bor.pl>





Klamath Basin

April 1, 2009



Water Supply Outlook

The snowpack in the Klamath basin increased slightly during the month of March. The April 1 snowpack in the Klamath basin was 98 percent of average. Measurements were taken at 5 aerial markers, 15 SNOTEL sites and 7 snow courses.

March precipitation in the Klamath basin was 107 percent of average. Since the beginning of the water year, precipitation in the basin has been only 82 percent of average.

At the end of March, storage at Upper Klamath Lake, Clear Lake (CA) and Gerber reservoirs was 73 percent of average or 50 percent of capacity. The April through September streamflow forecasts for the Klamath basin range from 63 to 79 percent of average, a slight improvement from last month. Water users in the Klamath basin can expect reduced water availability this coming summer.

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 - April 1, 2009

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)	
Clear Lake Inflow (2)	APR-JUL	1.0	14.7	26	63	37	54	41
	APR-SEP	4.0	19.5	30	63	40	56	48
Gerber Reservoir Inflow (2)	APR-JUL	0.1	6.6	11.5	68	16.4	24	16.9
	APR-SEP	0.2	7.3	12.1	68	16.9	24	17.8
Sprague R nr Chiloquin	APR-JUL	96	125	145	71	165	194	205
	APR-SEP	109	140	160	70	180	210	230
Upper Klamath Lake Inflow (1,2)	APR-JUL	230	300	330	78	360	430	425
	APR-SEP	290	365	400	78	435	510	515
Williamson R bl Sprague R nr Chiloqu	APR-JUL	197	230	255	80	280	315	320
	APR-SEP	245	280	305	79	330	365	385

KLAMATH BASIN Reservoir Storage (1000 AF) - End of March					KLAMATH BASIN Watershed Snowpack Analysis - April 1, 2009			
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	90.9	137.0	248.9	Lost	3	70	40
GERBER	94.3	56.3	62.8	66.6	Sprague	9	62	76
UPPER KLAMATH LAKE	523.7	417.1	428.5	457.8	Upper Klamath Lake	7	77	100
					Williamson River	5	79	96

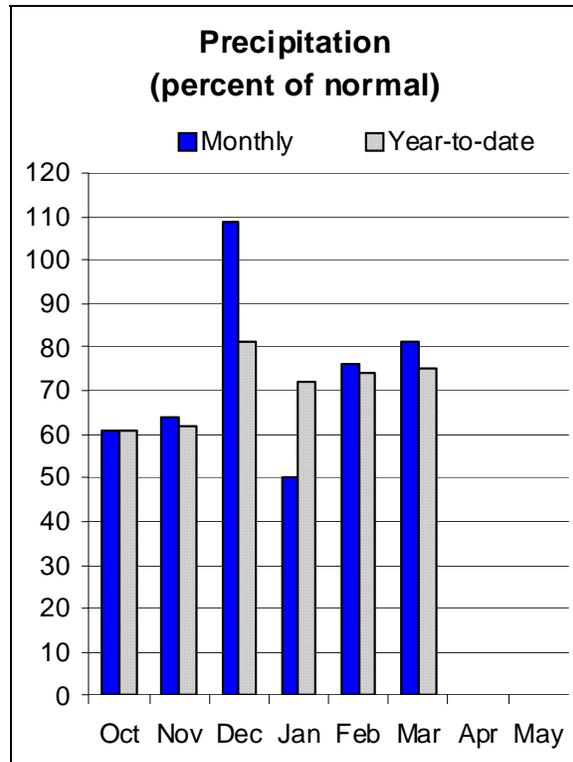
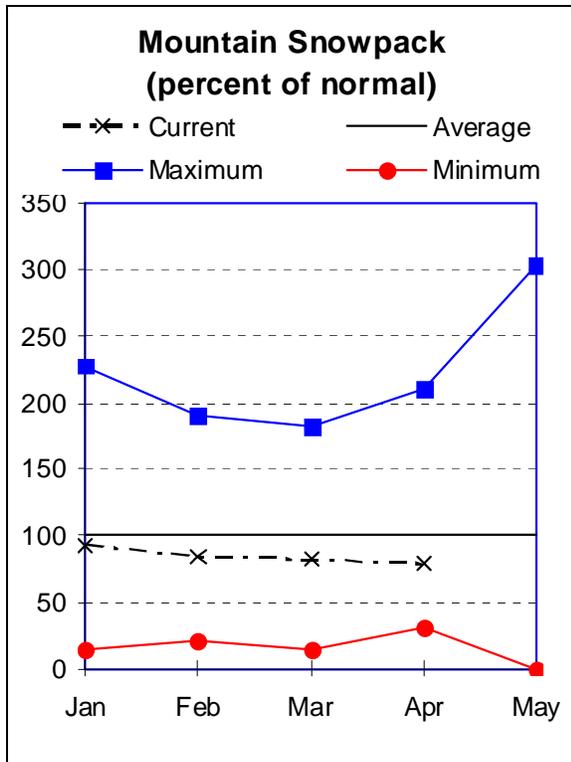
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table. The average is computed for the 1971-2000 base period.
 (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
 (2) - 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:
 Klamath Falls - (541) 883-6932
 Or visit: <http://www.wcc.nrcs.usda.gov/cgibin/bor.pl>



Lake County and Goose Lake

April 1, 2009



Water Supply Outlook

The April 1 snowpack in Lake County and Goose Lake basin was 79 percent of average. Modest snow accumulation over the month helped the basin to maintain similar conditions to last month. Measurements were taken at 15 aerial markers, 9 SNOTEL sites and 1 snow course.

March precipitation in the Lake County and Goose Lake basin was 81 percent of average. Since the beginning of the water year, precipitation in the basin has been 75 percent of average, the lowest in the state.

At the end of March, storage in Drews and Cottonwood reservoirs was 49 percent of average or 37 percent of capacity. Spring inflows are expected to be well below average. April through September streamflow forecasts for the basin range from 71 to 85 percent of average, a slight improvement over last month. Water users in Lake County and Goose Lake basin can expect reduced water availability this coming summer.

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>

LAKE COUNTY AND GOOSE LAKE BASINS
Streamflow Forecasts - April 1, 2009

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	APR-JUL	40	50	57	77	64	74	74
	APR-SEP	43	53	60	77	67	77	78
Deep Ck ab Adel	APR-JUL	31	41	48	72	55	65	67
	APR-SEP	32	43	50	73	57	68	69
Honey Ck nr Plush	APR-JUL	5.5	9.2	11.6	71	14.0	17.7	16.4
	APR-SEP	5.7	9.3	11.8	71	14.3	17.9	16.6
Silver Ck nr Silver Lake (2)	APR-JUL	5.3	7.6	9.1	85	10.6	12.9	10.7
	APR-SEP	5.2	7.8	9.5	85	11.2	13.8	11.2
Twentymile Ck nr Adel	APR-JUL	0.5	7.2	12.8	76	18.4	27	16.9
	APR-SEP	1.0	7.6	13.2	76	18.8	27	17.4

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

LAKE COUNTY AND GOOSE LAKE BASINS
Watershed Snowpack Analysis - April 1, 2009

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	6.9	5.7	Chewaucan River	6	68	77
DREWS	63.0	17.0	11.5	47.9	Deep Creek	3	79	84
					Drew Creek	4	43	64
					Honey Creek	3	73	89
					Silver Creek (Lake Co.)	5	66	87
					Twentymile Creek	5	67	74

* 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:

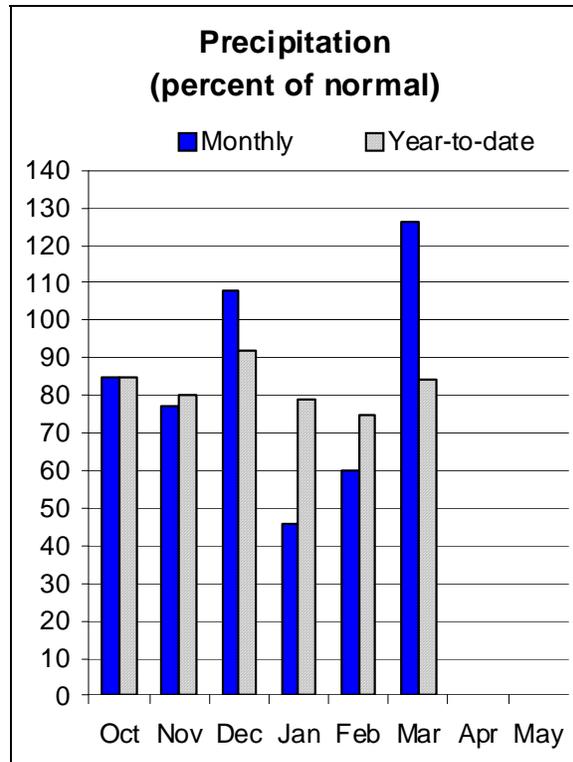
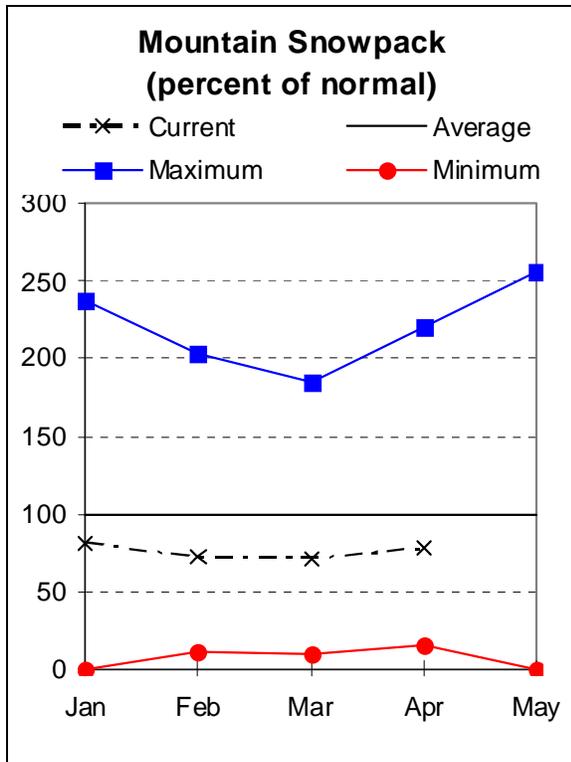
Lakeview - (541) 947-2202

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



Harney Basin

April 1, 2009



Water Supply Outlook

Modest snow accumulation in the Harney basin improved snowpack conditions slightly during the month of March. The April 1 snowpack in the Harney basin was 78 percent of average, the lowest in the state. Measurements for April 1 were taken at 6 aerial markers and 9 SNOTEL sites.

March precipitation in the Harney basin was 126 percent of average. Since the beginning of the water year, precipitation in the basin has been only 84 percent of average.

April through September streamflow forecasts for the Harney basin range from 77 to 86 percent of average. Water users in the Harney basin can expect reduced water availability this coming summer.

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 - April 1, 2009

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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	APR-JUL	29	43	52	81	61	75	64
	APR-SEP	33	47	57	81	67	81	70
Silvies R nr Burns	APR-JUL	39	65	83	87	101	127	96
	APR-SEP	40	67	85	86	103	130	99
Trout Ck nr Denio	APR-JUL	3.1	5.6	7.4	77	9.2	11.7	9.6
	APR-SEP	3.5	6.1	7.9	77	9.7	12.3	10.3

HARNEY BASIN Reservoir Storage (1000 AF) - End of March					HARNEY BASIN Watershed Snowpack Analysis - April 1, 2009			
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	5	62	74
					Silver Creek (Harney Co.)	2	87	115
					Silvies River	5	77	102
					Trout Creek	5	49	57

* 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:

Hines - (541) 573-6446

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

Recession Forecasts for Oregon

NEW – Changes to Low Flow and Peak Flow Forecasts

Recession flow forecasts will be presented in a new format starting this year. Each forecast provides a range of possible outcomes representing the uncertainty of forecasting models. Forecast models have been redeveloped using post 1970 data and as a result average values have changed from previous years. The recession flow forecasts use exceedance probabilities in a format similar to the standard water supply forecasts presented in this document.

The types of forecasts in the table below are:

- 1) Threshold flow -- Date that the daily streamflow rate falls below the given threshold flow
- 2) Peak flow -- Maximum daily flow
- 3) Date of peak flow -- Date of occurrence of maximum daily flow
- 4) Average daily flow on a given date

Forecasts are included at key streamflow sites within the state that have reliable daily streamflow data. If you have questions, comments, or concerns about changes to forecasts, please contact the Snow Survey Data Collection Office.

OWYHEE AND MALHEUR BASINS					
FORECAST POINT	FORECAST THRESHOLD	FORECAST VALUE ----- CHANCE OF EXCEEDING ----- -----			LONG-TERM AVERAGE VALUE
		90%	50%	10%	
Owyhee R nr Rome	2000 cfs	March 26 observed			May 6
Owyhee R nr Rome	1000 cfs	April 10	April 30	June 5	May 18
Owyhee R nr Rome	500 cfs	April 13	May 17	June 20	June 2

UPPER JOHN DAY BASIN					
FORECAST POINT	FORECAST THRESHOLD	FORECAST VALUE ----- CHANCE OF EXCEEDING ----- -----			LONG-TERM AVERAGE VALUE
		90%	50%	10%	
John Day R at Service Creek	Average Daily Flow on Aug. 1st	36	245	454	271

UPPER DESCHUTES AND CROOKED BASINS					
FORECAST POINT	FORECAST THRESHOLD	FORECAST VALUE ----- CHANCE OF EXCEEDING ----- -----			LONG-TERM AVERAGE VALUE
		90%	50%	10%	
Crane Prairie Inflow	Date of Peak	May 12	May 28	June 13	May 25
Crane Prairie Inflow	Peak Flow	286	415	544	403
Crane Prairie Inflow	Average Daily Flow on Oct. 1st	241	275	309	269
Prineville Reservoir Inflow	113 cfs	May 12	June 2	June 23	June 3
Prineville Reservoir Inflow	75 cfs	May 18	June 8	June 29	June 11
Prineville Reservoir Inflow	50 cfs	May 24	June 16	July 9	June 19
Whychus Creek nr Sisters	100 cfs	July 23	August 15	September 7	August 16

ROGUE AND UMPQUA BASINS					
<i>FORECAST POINT</i>	<i>FORECAST THRESHOLD</i>	<i>FORECAST VALUE</i> ----- <i>CHANCE OF EXCEEDING</i> ----- -----			<i>LONG-TERM AVERAGE VALUE</i>
		90%	50%	10%	
South Umpqua R nr Brockway *	90 cfs	July 24	August 10	August 27	August 8
South Umpqua R at Tiller	140 cfs	June 23	July 13	August 2	July 11
South Umpqua R at Tiller	90 cfs	July 13	August 3	August 24	August 1
South Umpqua R at Tiller	60 cfs	August 10	September 4	September 29	August 28

South Umpqua R nr Brockway dates are based on streamflow data adjusted for releases from Galesville Reservoir to reflect natural flow conditions and do not match observed gage data. There is an approximately 20% chance in any given year that the flow will not recede below 90 cfs; the dates given here are for the event that the flow does recede below 90 cfs.

LAKE COUNTY AND GOOSE LAKE BASINS					
<i>FORECAST POINT</i>	<i>FORECAST THRESHOLD</i>	<i>FORECAST VALUE</i> ----- <i>CHANCE OF EXCEEDING</i> ----- -----			<i>LONG-TERM AVERAGE VALUE</i>
		90%	50%	10%	
Deep Ck ab Adel	100 cfs	May 19	June 5	June 22	June 17
Honey Ck nr Plush	100 cfs	April 6	May 7	June 7	May 16
Honey Ck nr Plush	50 cfs	April 23	May 20	June 16	June 4
Twentymile Ck nr Adel	50 cfs	April 9	May 7	June 4	May 30
Twentymile Ck nr Adel	10 cfs	June 4	June 24	July 14	July 7

HARNEY BASIN					
<i>FORECAST POINT</i>	<i>FORECAST THRESHOLD</i>	<i>FORECAST VALUE</i> ----- <i>CHANCE OF EXCEEDING</i> ----- -----			<i>LONG-TERM AVERAGE VALUE</i>
		90%	50%	10%	
Silvies R nr Burns	400 cfs	April 20	May 11	June 1	May 21
	200 cfs	May 3	May 26	June 18	June 2
	100 cfs	May 17	June 10	July 4	June 13
	50 cfs	June 8	July 4	July 30	July 3
Donner Und Blitzen R nr Frenchglen	200 cfs	May 24	June 12	July 1	June 20
Donner Und Blitzen R nr Frenchglen	100 cfs	June 16	July 2	July 18	July 9

Summary of Snow Course Data

April 2009

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
Oregon						
ALTHOUSE #3	5000	3/30/09	28	11.2	31.6	12.8
ANEROID LAKE SNOTEL	7400	4/01/09	73	18.9	27.0	25.7
ANNIE SPRING SNOTEL	6010	4/01/09	98	34.5	43.2	42.8
ANTHONY LAKE (REV)	7130	3/31/09	87	29.2	30.0	--
ARBUCKLE MTN SNOTEL	5770	4/01/09	63	20.1	19.3	22.3
BALD MTN,OR AM	6720	4/01/09	116	39.4	37.4	25.7
BARLEY CAMP AM	6900	3/30/09	44	16.7	14.4	16.3
BEAR FLAT MEADOW AM	5900	3/30/09	40	14.0	12.5	11.2
BEAVER DAM CREEK	5100	4/03/09	40	15.3	25.0	10.0
BEAVER RES. SNOTEL	5150	4/01/09	41	14.0	15.5	9.2
BIG RED MTN SNOTEL	6050	4/01/09	58	21.0	34.0	28.4
BIG SHEEP AM	6200	4/01/09	85	26.4	38.4	26.6
BIGELOW CAMP SNOTEL	5130	4/01/09	28	14.0	30.0	11.6
BILLIE CK DVD SNOTEL	5280	4/01/09	61	24.8	33.2	21.5
BLAZED ALDER SNOTEL	3650	4/01/09	128	49.5	80.4	32.1
BLUE MTN SPGS SNOTEL	5870	4/01/09	42	15.9	20.7	17.3
BOURNE SNOTEL	5850	4/01/09	46	15.1	20.5	17.9
BOWMAN SPRNGS SNOTEL	4530	4/01/09	28	11.2	9.9	8.6
BUCK PASTURE AM	5700	4/01/09	5	2.0	9.9	1.2
BUCKSKIN LAKE AM	5200	4/01/09	0	.0	.0	.3
CALIBAN ALT	6500	3/31/09	54	19.4	33.8	30.9
CAMAS CREEK #3	5850	4/02/09	28	9.9	16.6	13.1
CASCADE SUM. SNOTEL	5100	4/01/09	98	36.2	49.9	31.3
CHEMULT ALT SNOTEL	4850	4/01/09	14	5.1	8.7	5.3
CLACKAMAS LK. SNOTEL	3400	4/01/09	46	17.5	22.6	11.3
CLEAR LAKE SNOTEL	3810	4/01/09	53	16.6	25.7	14.1
COLD SPRINGS SNOTEL	5940	4/01/09	76	32.4	41.3	28.2
COLVIN CREEK AM	6550	3/30/09	0	.0	2.7	2.6
COUNTY LINE SNOTEL	4830	4/01/09	8	4.3	7.3	2.2
COX FLAT AM	5750	3/30/09	4	1.6	10.9	4.3
CRAZYMAN FLAT AM	6100	3/30/09	24	6.2	9.4	9.1
CRAZYMAN FLAT SNOTEL	6180	4/01/09	35	9.1	16.0	15.7
DALY LAKE SNOTEL	3690	4/01/09	53	21.5	46.6	12.7
DEADHORSE GRADE	3700	3/31/09	30	10.0	30.6	9.0
DEADWOOD JUNCTION	4600	4/01/09	---	7.7E	16.1	4.8
DERR	5670	4/06/09	33	13.3	12.6	8.5
DERR SNOTEL	5850	4/01/09	41	14.5	18.9	16.4
DIAMOND LAKE SNOTEL	5280	4/01/09	44	21.3	21.3	14.8
DOG HOLLOW AM	4900	3/30/09	0	.0	.4	.1
DOOLEY MOUNTAIN	5430	3/30/09	28	10.3	17.8	7.1
EILERTSON SNOTEL	5510	4/01/09	28	10.5	9.1	9.6
ELDORADO PASS	4600	3/30/09	0	.0	5.8	.9
EMIGRANT SPGS SNOTEL	3800	4/01/09	28	10.7	11.7	3.3
FINLEY CORRALS AM	6000	3/30/09	28	9.8	15.5	14.6
FISH CREEK SNOTEL	7660	4/01/09	72	22.8	26.2	30.5
FISH LK. SNOTEL	4660	4/01/09	32	12.1	22.8	8.4
FOURMILE LAKE SNOTEL	5970	4/01/09	76	30.7	35.8	30.7
GERBER RES SNOTEL	4890	4/01/09	0	.8	.7	.1
GOLD CENTER SNOTEL	5410	4/01/09	28	10.7	13.9	8.3
GOVT CORRALS AM	7450	4/01/09	23	7.8	16.2	--
GRAYBACK PEAK	6000	3/30/09	63	25.9	37.2	20.8
GREENPOINT SNOTEL	3310	4/01/09	58	23.9	35.1	17.5
HART MOUNTAIN AM	6350	3/30/09	1	.3	.4	.9
HIGH RIDGE SNOTEL	4920	4/01/09	103	33.0	38.7	23.1
HOGG PASS SNOTEL	4790	4/01/09	80	27.7	46.9	39.0
HOLLAND MDWS SNOTEL	4930	4/01/09	75	29.6	40.7	23.1
HOWARD PRAIRIE	4500	4/03/09	26	9.4	13.6	5.6
HUNGRY FLAT	4400	3/31/09	0	.0	5.8	1.4
IRISH-TAYLOR SNOTEL	5540	4/01/09	105	37.6	47.7	36.6
JUMP OFF JOE SNOTEL	3520	4/01/09	47	17.8	37.6	10.3

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
Oregon (continued)						
KING MTN #1	4500	3/31/09	17	6.4	27.6	5.2
KING MTN #2	SNOTEL 4340	4/01/09	7	3.4	17.4	2.9
KING MTN #3	3650	3/31/09	0	.0	2.8	.6
KING MTN #4	3050	3/31/09	0	.0	.0	.0
LAKE CK R.S.	SNOTEL 5240	4/01/09	21	9.6	14.4	10.5
LITTLE ALPS	6200	3/31/09	55	15.9	17.6	13.2
LITTLE ANTONE (ALT)	5000	3/31/09	29	10.4	14.6	7.2
LITTLE MEADOW	SNOTEL 4020	4/01/09	96	36.2	65.2	25.7
LOOKOUT BUTTE	AM 5650	4/01/09	0	.0	.0	.1
LOUSE CANYON	AM 6440	4/01/09	2	.8	5.2	5.1
LUCKY STRIKE	SNOTEL 4970	4/01/09	26	6.9	11.9	9.3
MADISON BUTTE	SNOTEL 5150	4/01/09	---	6.8	10.0	2.7
MARION FORKS	SNOTEL 2590	4/01/09	26	10.9	33.1	10.2
MARKS CREEK	4540	4/06/09	0	.0	4.4	.9
MARY'S PEAK REV	3620	3/30/09	36	14.2	38.9	6.3
MCKENZIE	SNOTEL 4770	4/01/09	122	57.3	67.0	42.9
MEACHAM	4300	3/31/09	34	12.4	13.0	6.6
MILKSHAKES	SNOTEL 5580	4/01/09	150	52.9	50.6	--
MILL CREEK MDW	4400	4/03/09	52	15.6	22.6	9.1
MILLER WOODS	SNOTEL 420	4/01/09	0	.0	.0	--
MIRROR LAKE	AM 8200	4/01/09	---	68.0E	68.8	68.0
MOSS SPRINGS	SNOTEL 5760	4/01/09	86	28.9	28.2	26.0
MT ASHLAND SWBK.	6400	3/31/09	56	20.2	33.7	33.4
MT HOOD	5370	4/02/09	194	77.0	93.0	62.5
MT HOOD TEST	SNOTEL 5370	4/01/09	181	63.1	82.0	59.1
MT HOWARD	SNOTEL 7910	4/01/09	64	19.9	20.9	16.5
MUD RIDGE	SNOTEL 4070	4/01/09	100	41.7	49.2	24.3
NEW CRESCENT	SNOTEL 4910	4/01/09	43	11.6	19.0	8.4
NEW DUTCHMAN #3	6400	3/31/09	132	50.9	57.2	51.9
NORTH FK RES	SNOTEL 3060	4/01/09	100	37.0	--	15.7
OCHOCO MEADOWS	5200	4/06/09	28	9.6	10.9	8.9
OCHOCO MEADOW	SNOTEL 5430	4/01/09	28	10.5	12.1	8.7
OREGON CANYON	AM 6950	4/01/09	5	1.6	7.4	4.9
PAGE MTN	4050	3/30/09	0	.0	.0	1.2
PARK H.Q. REV	6550	4/01/09	135	56.4	71.6	61.3
PATTON MEADOWS	AM 6800	3/30/09	38	14.4	19.4	17.5
PEAVINE RIDGE	SNOTEL 3420	4/01/09	52	22.2	37.2	13.0
PUEBLO SUMMIT	AM 6800	4/01/09	0	.0	2.2	--
QUARTZ MTN	SNOTEL 5720	4/01/09	0	.0	2.1	.4
R.R. OVERPASS	SNOTEL 2680	4/01/09	0	.0	.0	.1
RED BUTTE #1	4560	3/30/09	48	17.9	38.6	10.4
RED BUTTE #2	4000	3/30/09	4	.8	11.4	5.0
RED BUTTE #3	3500	3/30/09	2	.7	13.7	1.1
RED BUTTE #4	3000	3/30/09	0	.0	4.2	.3
RED HILL	SNOTEL 4410	4/01/09	159	52.1	88.6	46.1
ROARING RIVER	SNOTEL 4950	4/01/09	85	41.2	58.0	28.9
ROCK SPRINGS	SNOTEL 5290	4/01/09	12	3.2	5.2	2.5
ROGGER MEADOWS	AM 6500	3/30/09	20	7.6	12.5	11.3
SADDLE MTN	SNOTEL 3110	4/01/09	21	8.8	30.7	6.0
SALT CK FALLS	SNOTEL 4220	4/01/09	68	28.1	43.1	18.4
SANTIAM JCT.	SNOTEL 3740	4/01/09	46	19.4	36.8	16.0
SCHNEIDER MDW	SNOTEL 5400	4/01/09	64	22.2	23.0	29.6
SEINE CREEK	SNOTEL 2060	4/01/09	0	.1	1.6	1.3
SEVENMILE MARSH SNTL	5700	4/01/09	82	32.4	44.1	30.5
SHERMAN VALLEY	AM 6600	3/30/09	39	14.8	14.4	12.0
SILVER BURN	3720	4/01/09	35	14.5	25.6	8.2
SILVER CREEK	SNOTEL 5740	4/01/09	20	9.1	13.7	7.8
SILVIES	SNOTEL 6990	4/01/09	45	16.6	19.9	19.3
SISKIYOU SUMMIT REV	4630	3/31/09	11	4.7	17.9	3.3
SKI BOWL ROAD	6000	3/31/09	49	17.0	28.7	26.7
SNOW MTN	SNOTEL 6220	4/01/09	36	9.1	12.5	14.0
SF BULL RUN	SNOTEL 2690	4/01/09	45	12.2	33.8	2.1
STARR RIDGE	SNOTEL 5250	4/01/09	20	10.9	10.4	3.4
STRAWBERRY	SNOTEL 5770	4/01/09	0	.9	6.9	4.1
SUMMER RIM	SNOTEL 7080	4/01/09	44	15.6	16.4	19.0
SUMMIT LAKE	SNOTEL 5610	4/01/09	105	38.3	49.8	38.1
SUN PASS	SNOTEL 5400	4/01/09	50	19.9	25.9	--
SWAN LAKE MTN	SNOTEL 6830	4/01/09	52	21.4	25.1	--

SNOW COURSE		ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
Oregon (continued)							
SYCAN FLAT	AM	5500	3/30/09	8	3.3	8.2	3.2
TANGENT		5400	3/31/09	44	17.2	26.6	19.6
TAYLOR BUTTE	SNOTEL	5030	4/01/09	9	5.1	9.9	2.8
TAYLOR GREEN	SNOTEL	5740	4/01/09	65	21.1	25.5	21.7
THREE CK MEAD	SNOTEL	5690	4/01/09	56	16.3	25.7	19.7
TIMOTHY LAKE		3300	3/30/09	40	15.6	21.4	11.3
TIPTON	SNOTEL	5150	4/01/09	36	11.3	14.8	14.3
TOKETTE AIRSTRIP	SN	3240	4/01/09	0	.4	10.0	--
TOLLGATE		5070	4/01/09	---	34.0	40.8	26.8
TROUT CREEK	AM	7800	4/01/09	25	8.5	14.8	12.1
V LAKE	AM	6600	4/01/09	6	2.4	14.1	8.0
WEST EAGLE MEADOWS		5500	4/01/09	86	27.5	38.5	28.1
WOLF CREEK	SNOTEL	5630	4/01/09	54	17.4	19.8	16.7
California							
ADIN MOUNTAIN		6350	3/30/09	28	10.4	13.6	12.5
ADIN MTN	SNOTEL	6190	4/01/09	27	11.0	13.2	13.2
BLUE LAKE RANCH		6800	3/27/09	25	9.7	11.3	10.4
CEDAR PASS		7100	3/26/09	42	14.6	13.7	17.6
CEDAR PASS	SNOTEL	7030	4/01/09	41	15.5	19.2	19.3
CROWDER FLAT	AM	5200	3/30/09	0	.0	4.3	.4
CROWDER FLAT	SNOTEL	5170	4/01/09	0	.0	3.9	2.4
DISMAL SWAMP	SNOTEL	7360	4/01/09	68	25.8	27.6	28.9
STATE LINE	AM	5750	3/30/09	4	1.6	6.6	3.4
Idaho							
BATTLE CREEK	AM	5720	4/01/09	0	.0	6.6	1.0
BULL BASIN	AM	5460	4/01/09	0	.0	4.8	.3
MUD FLAT	SNOTEL	5730	4/01/09	7	3.0	9.0	4.4
RED CANYON	AM	6650	4/01/09	12	4.8	8.9	5.1
SILVER CITY		6400	4/01/09	47	18.8	23.7	15.8
SOUTH MTN	SNOTEL	6500	4/01/09	35	13.9	22.1	19.2
SUCCOR CREEK	AM	6100	4/01/09	15	6.0	15.5	7.8
VAUGHT RANCH	AM	5830	4/01/09	0	.0	6.0	1.1
Nevada							
BALD MOUNTAIN	AM	6720	3/30/09	0	.0	4.4	2.5
BEAR CREEK	SNOTEL	7800	4/01/09	63	20.8	19.8	21.6
BIG BEND	SNOTEL	6700	4/01/09	26	10.1	11.6	8.3
BUCKSKIN,L	SNOTEL	6700	4/01/09	26	8.3	12.4	8.5
COLUMBIA BASIN	AM	6650	3/26/09	21	7.6	8.9	6.8
DISASTER PEAK	SNOTEL	6500	4/01/09	3	.4	7.7	7.4
FAWN CREEK	SNOTEL	7050	4/01/09	46	14.5	14.5	18.7
FRY CANYON		6700	3/26/09	19	6.8	9.0	5.7
GOLD CREEK		6600	3/26/09	15	5.4	8.5	3.9
GRANITE PEAK	SNOTEL	7800	4/01/09	39	13.2	19.9	25.1
JACK CREEK, LOWER	(d)	6800	3/26/09	10	2.6	4.0	2.3
JACK CREEK, U	SNOTEL	7280	4/01/09	53	14.7	13.9	19.9
LAMANCE CREEK	SNOTEL	6000	4/01/09	3	1.0	17.0	10.1
LAUREL DRAW	SNOTEL	6700	4/01/09	30	11.0	13.4	8.8
LITTLE BALLY MTN.	AM	6000	3/30/09	0	.0	3.3	2.9
MERRIT MOUNTAIN	AM	7000	3/26/09	15	5.4	9.3	5.8
MIDAS	(d)	7200	3/26/09	1	.4	4.4	1.7
QUINN RIDGE	AM	6300	4/01/09	0	.0	5.6	.8
SEVENTYSIX CK	SNOTEL	7100	4/01/09	25	8.8	11.6	10.7
STAG MOUNTAIN	AM	7700	3/26/09	12	4.3	3.3	5.7
TAYLOR CANYON	SNOTEL	6200	4/01/09	7	3.2	7.8	2.9
TOE JAM	AM	7700	3/26/09	24	8.6	13.3	9.4
TREMEWAN RANCH		5700	3/24/09	0	.0	.0	.1

(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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