United States
Department of
Agriculture

Natural Resources
Conservation
Service

Oregon
Basin Outlook Report

January 1, 2010

Contents

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General Outlook

January 1, 2010

SUMMARY

Happy Water Year 2010 and welcome to the first edition of the 2010 Oregon Basin Outlook Report. Weather conditions in the Pacific Northwest this winter are expected to be influenced by moderate El Nino conditions of the equatorial Pacific. El Nino conditions generally mean winters with above normal temperatures and below normal precipitation for Oregon basins, although there can be considerable variability around these trends.
http://www.cpc.ncep.noaa.gov/products/analysis_monitoring/enso_advisory/ensodisc.pdf

Water year 2009 (October 1, 2008 through September 30, 2009) ended with most basins east of the Cascades in Oregon reporting near average annual precipitation. Basins that had below average annual precipitation for water year 2009 were the Willamette, Rogue, Umpqua, Lake County, Goose Lake. Prior to the establishment of the winter snowpack, fall rains were well below normal in all but the Willamette and Umatilla basins of Oregon. The fall rains failed to completely moisten soil profiles prior to the onset of winter snow cover. As of January 1, water year precipitation and current snowpack totals are well below normal around the state.

SNOWPACK

On January 1, the snowpack in most of the state was well below normal. Oregon basin snowpacks range from 95 percent of average in the Umatilla basin to 66 percent of average in the Harney Basin. Snow measurements for January 1 were taken at 77 SNOTEL sites and 29 snow courses in Oregon. Typically, about 40 to 50 percent of the maximum snowpack is on the ground by January 1.

PRECIPITATION

Following a wet October, November and December were much drier than average throughout Oregon. Since much of the precipitation for the water year falls in these months, Oregon water supply basins have some catching up to do in order to collect sufficient moisture to meet summer water supply demands.

Since the beginning of the water year, precipitation in Oregon has ranged from 64 percent of average in the Klamath basin to 88 percent of average in the Willamette basin.

RESERVOIRS

The January 1 storage at 25 major Oregon reservoirs analyzed in this publication was 65 percent of average. A total of 959,200 acre feet of water were stored on January 1, representing 35 percent of useable capacity. Last year at this time these same reservoirs stored 1,128,600 acre feet of water

STREAMFLOW

STREAM	PERIOD	PERCENT OF AVERAGE
Owyhee Reservoir Inflow	April-September	72
Grande Ronde R at La Grande	April-September	81
Umatilla R at Pendleton	April-September	94
Deschutes R at Benham Falls	April-September	84
MF Willamette bl NF	April-September	74
Rogue R at Raygold	April-September	75
Upper Klamath Lake Inflow	April-September	72
Silvies R nr Burns	April-September	64

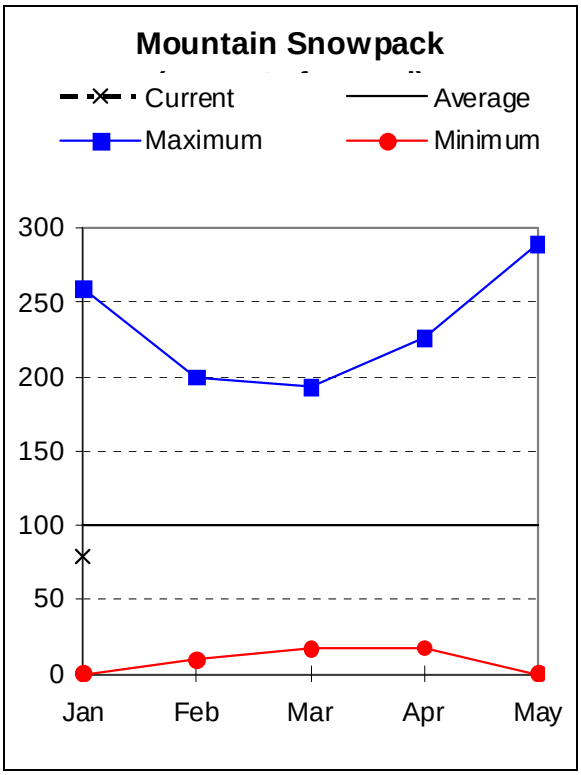
Some of these forecasts assume that normal weather conditions will occur from now to the end of the forecast period.

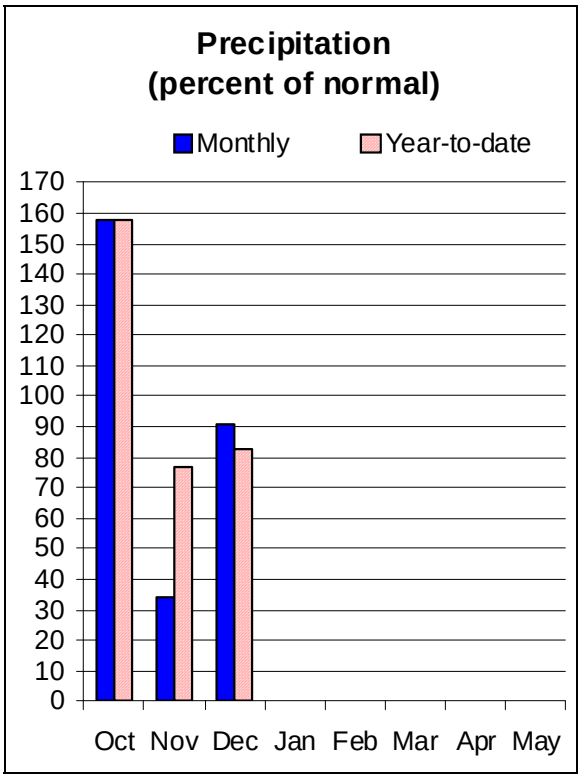
The forecasts in this bulletin are a result of coordinated activity between the Natural Resources Conservation Service and the National Weather Service as an effort to provide the best possible service to water users.

This report contains data furnished by the Oregon Department of Water Resources, U.S. Geological Survey, NOAA National Weather Service and other cooperators. This report will be updated monthly, January through June.

Owyhee and Malheur Basins

January 1, 2010





Water Supply Outlook

The Owyhee and Malheur basins ended water year 2009 with near normal precipitation. Since the beginning of water year 2010, precipitation in the Owyhee and Malheur basins has been 83 percent of average. October precipitation was well above average, followed by a drier than average November and December. The January 1 snowpack was 79 percent of average.

January 1 storage at the four irrigation reservoirs in the Owyhee and Malheur basins was 35 percent of average or 18 percent of capacity.

The April through September streamflow forecasts in the Owyhee and Malheur basins range from 65 percent of average for the Owyhee River near Rome to 72 percent of average for the Owyhee Reservoir Inflow. Elsewhere in the basin, the Malheur River near Drewsey is forecast to be 72 percent of average for the April through September period. At this point in the season, streamflows in the Owyhee and Malheur are forecast to be well below normal for the summer of 2010.

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 - January 1, 2010

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Malheur R nr Drewsey	FEB-JUL	33	63	90	71	121	176	127
	APR-SEP	16.5	37	55	72	77	116	76
NF Malheur R at Beulah	FEB-JUL	25	46	65	72	87	125	90
Owyhee R blw Owyhee Dam (2)	FEB-JUL	220	375	500	71	645	895	700
	FEB-SEP	245	405	535	73	685	935	730
OWYHEE RESV INFLOW (2)	APR-SEP	132	230	310	72	405	565	430
Owyhee R nr Rome	FEB-JUL	177	330	460	70	610	875	655
	FEB-SEP	186	340	475	70	630	895	675
	APR-SEP	92	182	260	65	350	515	400

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

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
BEULAH RES	60.0	8.6	11.7	22.8
BULLY CREEK	30.0	4.4	6.4	11.1
OWYHEE	715.0	159.9	185.7	398.1
WARMSPRINGS	191.0	8.2	14.7	78.5

OWYHEE AND MALHEUR BASINS
Watershed Snowpack Analysis - January 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
Owyhee	8	77	80
Upper Malheur	4	83	72
Jordan Creek	3	78	83
Bully Creek	0	0	0
Willow Creek	2	73	86

* 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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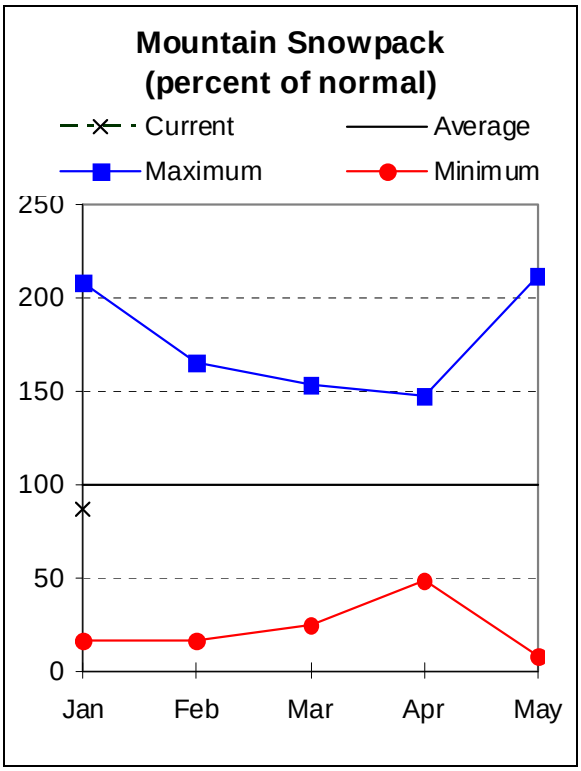
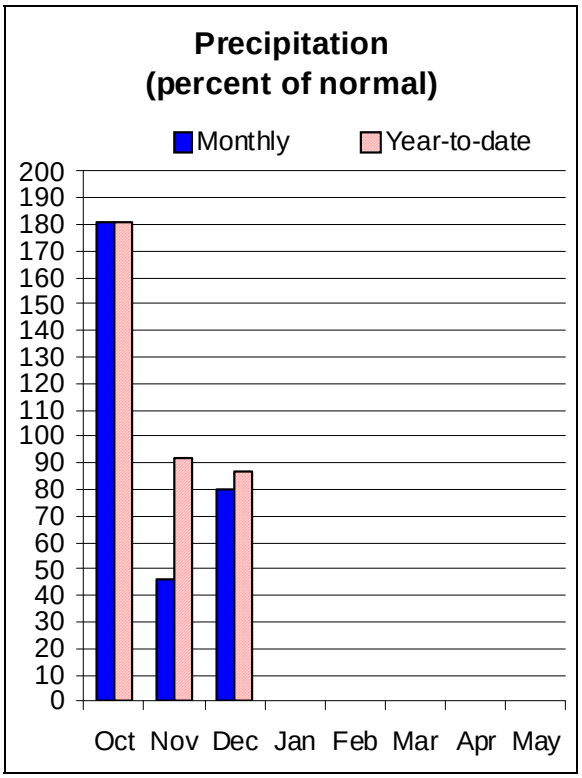
Burnt, Powder, Grand Ronde, and Imnaha Basins

January 1, 2010





Water Supply Outlook

The Burnt, Powder, Pine, Grande Ronde, and Imnaha basins ended water year 2009 with near normal precipitation. Basin wide precipitation was well above average in October. November and December were drier than average. Since the beginning of water year 2010, precipitation in these basins has been 87 percent of average. The January 1 snowpack was also 87 percent of average in this basin.

January 1 storage at Phillips Lake, Thief Valley and Unity reservoirs was 91 percent of average or 51 percent of capacity.

The April through September streamflow forecasts range from 74 percent of average for the Burnt River near Hereford to 87 percent of average for the Lostine River near Lostine. Elsewhere in the basin, the Grande Ronde River at LaGrande is forecast to be 81 percent of average for the April through September period. At this point in the season, basin water users can expect below normal streamflows for the summer of 2010.

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

BURNT, POWDER, PINE, GRANDE RONDE AND IMNAHA BASINS
Streamflow Forecasts - January 1, 2010

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Bear Ck nr Wallowa	APR-SEP	35	47	55	85	63	75	65
Burnt R nr Hereford	FEB-JUL	21	32	42	74	53	71	57
	APR-SEP	13.1	22	29	74	37	51	39
Catherine Ck nr Union	APR-JUL	34	43	50	81	58	69	62
	APR-SEP	37	47	54	82	62	74	66
DEER CK nr Sumpter	FEB-JUL	8.0	11.9	15.0	77	18.4	24	19.4
Grande Ronde R at La Grande	MAR-JUL	131	170	200	81	230	285	247
	APR-SEP	95	128	153	81	180	225	188
Grande Ronde R at Troy	MAR-JUL	635	1150	1380	87	1610	2120	1580
	APR-SEP	505	970	1180	86	1390	1850	1370
Imnaha R at Imnaha	APR-JUL	126	191	235	87	280	345	270
	APR-SEP	140	210	255	86	300	370	295
Lostine R nr Lostine	APR-JUL	77	89	98	88	107	122	112
	APR-SEP	77	93	105	87	118	138	121
Pine Ck nr Oxbow	FEB-JUL	88	140	175	84	210	260	208
	APR-JUL	59	96	122	82	148	185	148
	APR-SEP	61	100	126	82	152	191	154
Powder R nr Sumpter	FEB-JUL	33	49	61	82	75	98	74
	APR-JUL	24	36	45	78	56	73	58
	APR-SEP	23	36	46	78	57	77	59
WOLF CK RESERVOIR inflow	MAR-JUN	7.6	10.8	13.0	80	15.2	18.4	16.2

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

BURNT, POWDER, PINE, GRANDE RONDE AND IMNAHA BASINS
Reservoir Storage (1000 AF) - End of December

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
PHILLIPS LAKE	73.5	38.7	34.6	38.4
THIEF VALLEY	17.4	13.6	12.1	15.5
UNITY	25.2	6.5	8.2	10.6
WALLOWA LAKE	37.5	10.5	13.4	17.4
WOLF CREEK	10.4	3.5	2.8	3.1

BURNT, POWDER, PINE, GRANDE RONDE AND IMNAHA BASINS
Watershed Snowpack Analysis - January 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	This Year as % of Average
Upper Grande Ronde	9	92	92
Wallowa	4	101	79
Imnaha	4	132	84
Powder	11	95	81
Burnt	4	84	82

* 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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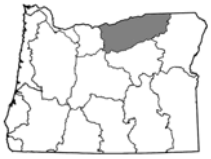
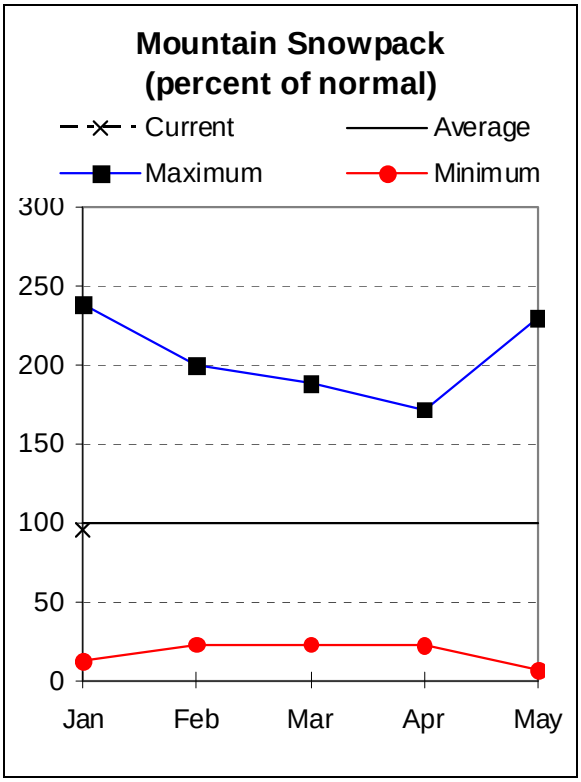
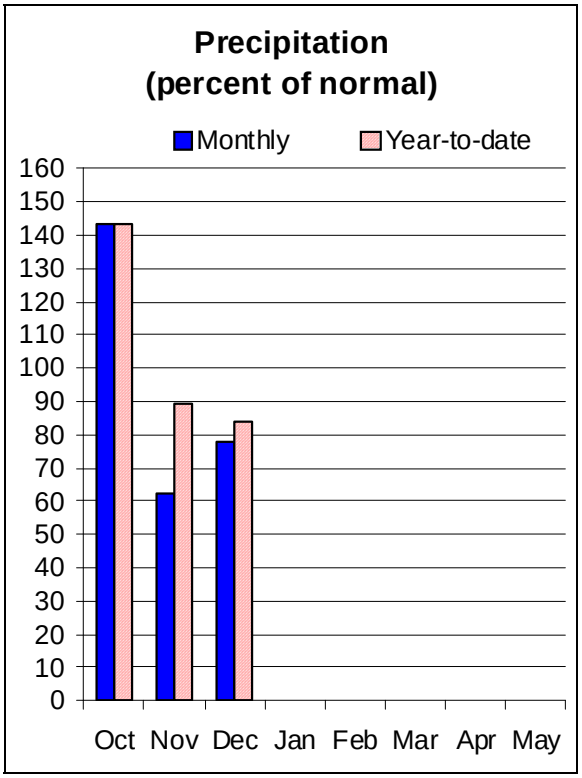


Umatilla, Walla Walla, Willow Rock, and Lower John Day Basins

January 1, 2010





Water Supply Outlook

The Umatilla, Walla Walla, Willow, Rock and Lower John Day basins ended water year 2009 with near normal precipitation. Water year 2010 began with a wet October followed by a dry November and December. As of January 1, total precipitation for water year 2010 has been 84 percent of average. The January 1 snowpack was 95 percent of average, the highest in the state.

January 1 storage at Cold Springs and MacKay reservoirs was 27 percent of average or 8 percent of capacity. April through September streamflow forecasts range from 89 percent of average for Butter Creek near Pine City to 96 percent of average for the South Fork Walla Walla River near Milton-Freewater. Elsewhere in the basin, the Umatilla River near Pendleton is forecast to be 94 percent of average for the same period. At this point in the season, water users in the Umatilla, Walla Walla, Willow, Rock and Lower John Day basins can expect near average streamflow conditions for the summer of 2010.

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 - January 1, 2010

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Butter Ck nr Pine City	MAR-JUL	6.6	11.0	14.0	93	17.0	21	15.0
	APR-SEP	4.2	7.1	9.1	89	11.1	14.0	10.2
McKay Ck nr Pilot Rock	APR-SEP	6.4	18.1	26	96	34	46	27
Rhea Ck nr Heppner	FEB-JUL	5.3	9.9	13.0	96	16.1	21	13.5
Umatilla R ab Meacham Ck nr Gibbon	APR-JUL	46	60	69	95	78	92	73
	MAR-SEP	73	89	100	94	111	127	106
	APR-SEP	51	65	74	94	83	97	79
Umatilla R at Pendleton	APR-JUL	85	118	140	94	162	195	149
	MAR-SEP	146	187	215	94	245	285	230
	APR-SEP	90	123	145	94	167	200	155
SF Walla Walla R nr Milton-Freewater	APR-JUL	42	48	52	96	56	62	54
	MAR-SEP	65	73	78	96	83	91	81
	APR-SEP	53	59	64	96	69	75	67
Willow Ck ab Willow Ck Lake nr Heppn	FEB-JUL	4.7	8.7	11.4	86	14.1	18.1	13.3
	APR-JUL	2.0	4.7	6.6	89	8.5	11.2	7.4

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UMATILLA, WALLA WALLA, WILLOW, ROCK AND LOWER JOHN DAY BASINS

Reservoir Storage (1000 AF) - End of December

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
COLD SPRINGS	50.0	1.7	1.2	14.3
MCKAY	73.8	8.7	16.6	23.6
WILLOW CREEK	1.8	0.0	0.0	---

UMATILLA, WALLA WALLA, WILLOW, ROCK AND LOWER JOHN DAY BASINS

Watershed Snowpack Analysis - January 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
Walla Walla	3	99	96
Umatilla	7	91	98
McKay Creek	4	81	99

* 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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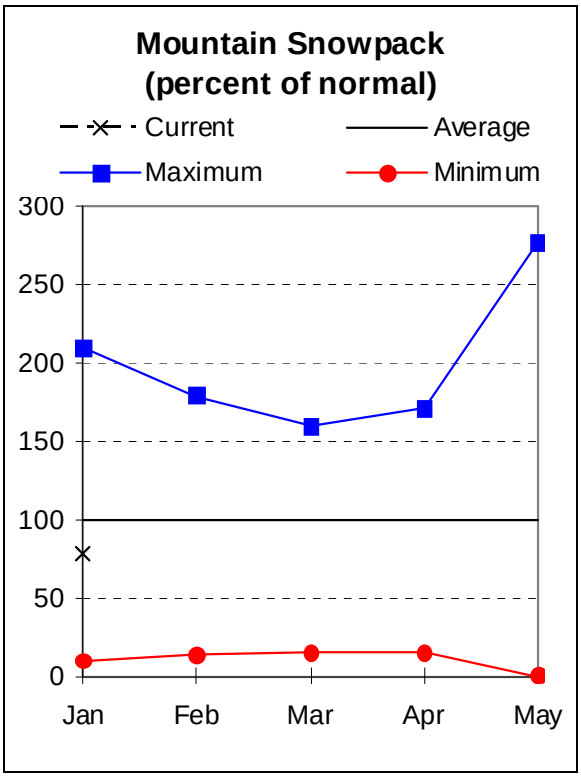
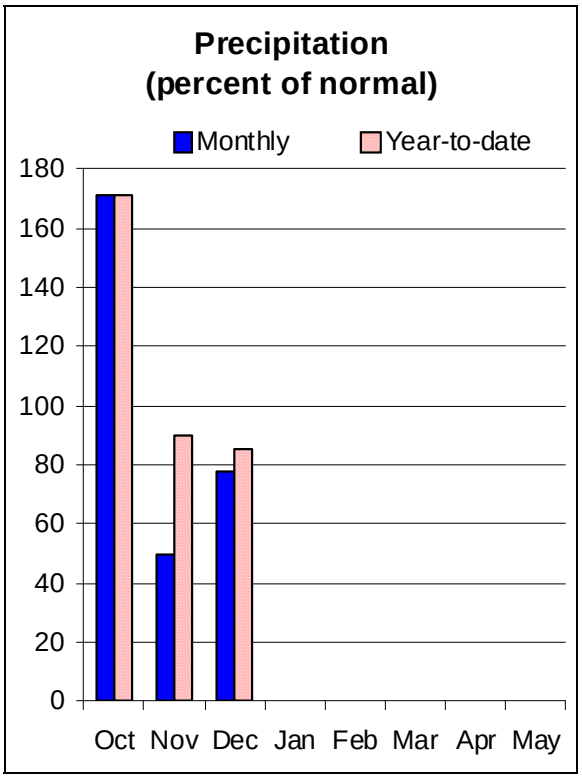
Upper John Day Basin

January 1, 2010





Water Supply Outlook

The Upper John Day basin finished water year 2009 with near normal precipitation. Water year 2010 began with a wet October followed by a drier than average November and December. As of January 1, total precipitation for water year 2010 has been 85 percent of average. On January 1, the snowpack in the Upper John Day basin was 78 percent of average.

April through September streamflow forecasts range from 82 percent of average for Camas Creek near Ukiah to 97 percent of average for Strawberry Creek near Prairie City. Elsewhere in the basin, the Middle Fork John Day at Monument is forecast to be 88 percent of average for the same period. At this point in the season, water users in the John Day basin can expect slightly below to near average streamflows for the summer of 2010.

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 - January 1, 2010

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Camas Ck nr Ukiah	MAR-JUL	27	37	44	85	51	61	52
	APR-SEP	15.3	25	31	82	37	47	38
MF John Day R at Ritter	MAR-JUL	75	112	138	87	164	200	159
	APR-SEP	58	90	112	88	134	166	128
NF John Day R at Monument	MAR-JUL	400	575	695	88	815	990	790
	APR-SEP	300	445	540	88	635	780	615
Mountain Ck nr Mitchell	FEB-JUL	1.6	4.2	6.0	86	7.8	10.4	7.0
	APR-SEP	0.9	2.7	3.9	84	5.1	6.9	4.6
Strawberry Ck nr Prairie City	MAR-JUL	4.1	6.0	7.3	99	8.6	10.5	7.4
	APR-SEP	4.4	6.3	7.6	97	8.9	10.8	7.8

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

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg

UPPER JOHN DAY BASIN
Watershed Snowpack Analysis - January 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
North Fork John Day	7	88	88
John Day above Kimberly	5	89	72

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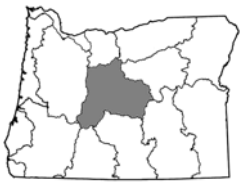
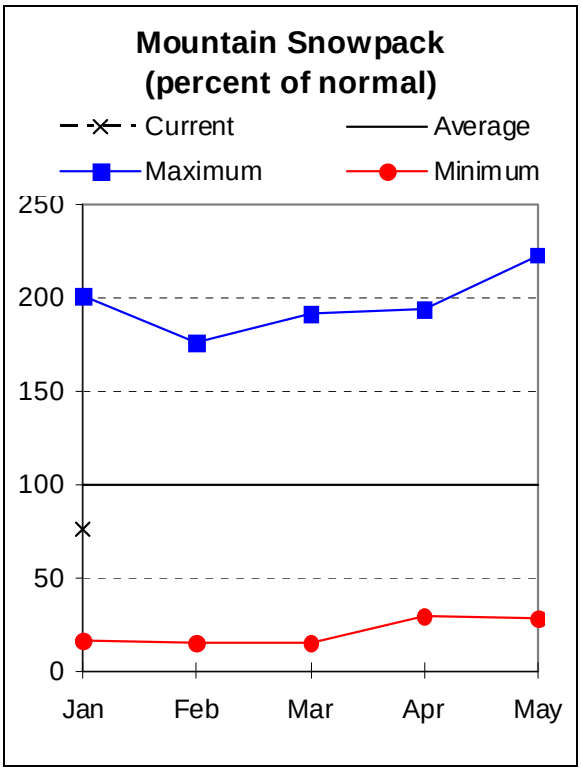
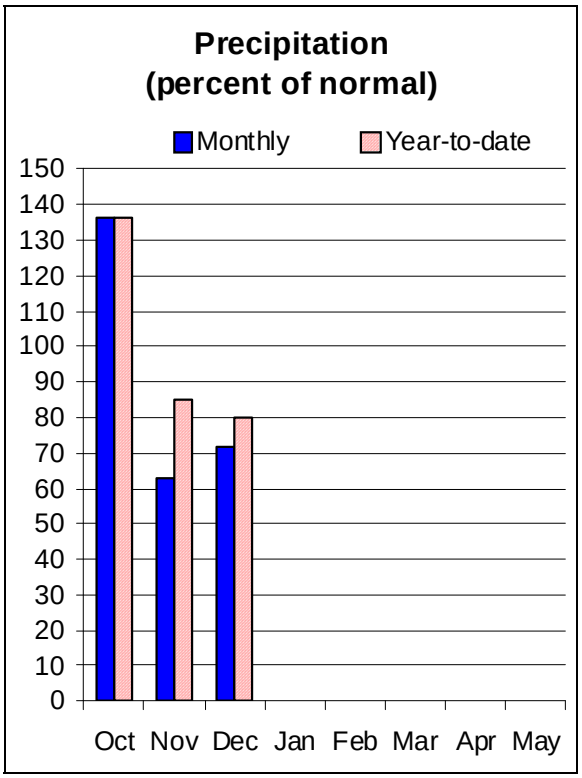


Upper Deschutes and Crooked Basins

January 1, 2010





Water Supply Outlook

The Upper Deschutes and Crooked River basins ended water year 2009 with near normal precipitation. Water year 2010 began with a wet October followed by a drier than normal November and December. As of January 1, total precipitation for water year 2010 has been 80 percent of average. On January 1, the snowpack in the Upper Deschutes and Crooked River basins was 76 percent of average.

January 1 storage at five irrigation reservoirs in the Upper Deschutes and Crooked River basins was 110 percent of average or 67 percent of capacity.

April through September streamflow forecasts range from 68 percent of average for Ochoco Reservoir Inflow to 86 percent of average for Whychus Creek near Sisters. Elsewhere in the basin, the Deschutes River at Benham Falls near Bend is forecast to be 84 percent of average for the same period. At this point in the season, water users can expect slightly below to well below normal summer streamflows in the Upper Deschutes and Crooked River basins.

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 - January 1, 2010

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Crane Prairie Reservoir Inflow (2)	FEB-JUL	37	51	61	78	71	85	78
	APR-JUL	27	38	46	78	54	65	59
	FEB-SEP	57	75	87	78	99	117	112
	APR-SEP	46	62	73	79	84	100	93
Crescent Ck nr Crescent (2)	FEB-JUL	7.6	13.5	17.5	76	22	27	23
	APR-JUL	5.3	10.0	13.1	76	16.2	21	17.2
	FEB-SEP	10.0	16.6	21	78	25	32	27
	APR-SEP	7.4	12.5	16.0	76	19.5	25	21
Deschutes R at Benham Falls nr Bend	FEB-JUL	350	390	420	84	450	490	500
	APR-JUL	245	275	295	84	315	345	350
	FEB-SEP	485	535	570	84	605	655	680
	APR-SEP	375	415	440	84	465	505	525
Deschutes R bl Snow Ck nr La Pine	FEB-JUL	16.8	26	32	71	38	47	45
	APR-JUL	11.8	18.5	23	70	28	34	33
	FEB-SEP	31	42	50	70	58	69	71
	APR-SEP	25	35	41	70	47	57	59
Little Deschutes R nr La Pine (2)	FEB-JUL	38	61	77	76	93	116	101
	APR-JUL	28	44	54	76	64	80	71
	FEB-SEP	42	67	84	76	101	126	110
	APR-SEP	32	49	61	76	73	90	80
Ochoco Reservoir Inflow (2)	FEB-JUL	8.5	21	30	70	39	51	43
	APR-JUL	4.7	11.0	15.4	70	19.8	26	22
	FEB-SEP	7.7	21	30	70	39	52	43
	APR-SEP	3.7	10.4	15.0	68	19.6	26	22
Prineville Reservoir Inflow (2)	FEB-JUL	37	106	152	69	198	265	221
	APR-JUL	19.0	52	75	69	98	131	108
	FEB-SEP	37	106	153	69	200	270	222
	APR-SEP	18.0	52	75	69	98	132	109
Whychus Ck nr Sisters	FEB-JUL	27	34	38	89	42	49	43
	APR-JUL	25	29	32	89	35	39	36
	FEB-SEP	33	41	46	85	51	59	54
	APR-SEP	32	38	42	86	46	52	49

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
Reservoir Storage (1000 AF) - End of December

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
CRANE PRAIRIE	55.3	35.3	41.5	36.7
CRESCENT LAKE	86.9	64.9	61.5	47.5
OCHOCO	47.5	15.8	21.8	18.1
PRINEVILLE	153.0	87.6	86.6	85.3
WICKIUP	200.0	158.6	171.3	142.2

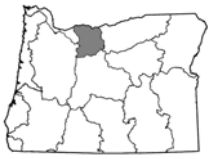
UPPER DESCHUTES AND CROOKED BASINS
Watershed Snowpack Analysis - January 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	This Year as % of Average
Crooked	4	76	68
Little Deschutes	4	83	101
Deschutes above Wickiup R	4	70	90
Tumalo and Squaw Creeks	5	60	67

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

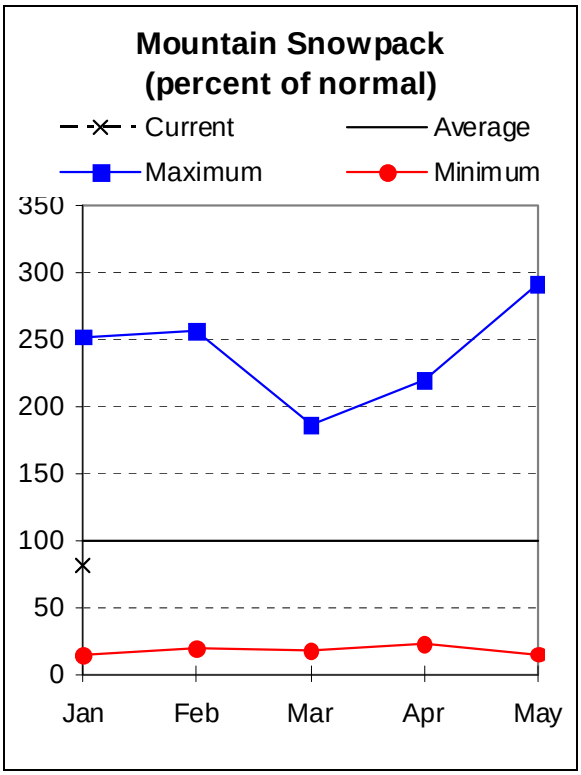
The average is computed for the 1971-2000 base period.

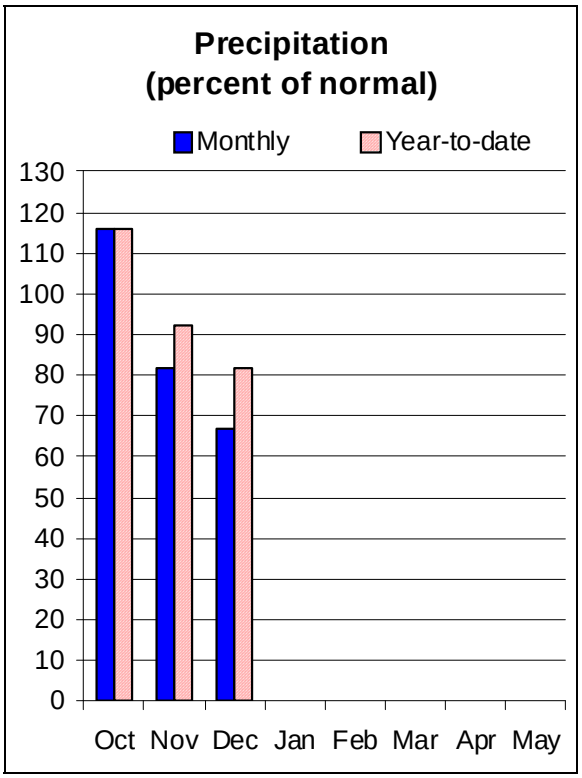
(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.



Hood, Mile Creeks, and Lower Deschutes Basins

January 1, 2010





Water Supply Outlook

The Hood, Mile Creeks and Lower Deschutes basins ended water year 2009 with near normal precipitation. Water year 2010 began with a slightly wetter than normal October. November and December were much drier than normal. As of January 1, total precipitation for water year 2010 has been 82 percent of average. On January 1, the snowpack in the Hood, Mile Creeks and Lower Deschutes basins was 81 percent of average.

April through September streamflow for Hood River at Tucker Bridge is forecast to be 85 percent of average. At this point in the season, water users in the Hood, Mile Creeks and Lower Deschutes basin can expect below normal streamflows during the summer of 2010.

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 - January 1, 2010

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Hood R At Tucker Bridge	APR-JUL	136	170	193	85	215	250	228
	APR-SEP	245	280	230	85	330	365	271

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

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
CLEAR LAKE (WASCO)	11.9	2.9	4.2	---

HOOD, MILE CREEKS AND LOWER DESCHUTES BASINS
Watershed Snowpack Analysis - January 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
Hood River	5	78	83
Mile Creeks	0	0	0
White River	4	84	75

* 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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The Dalles (541) 296-6178
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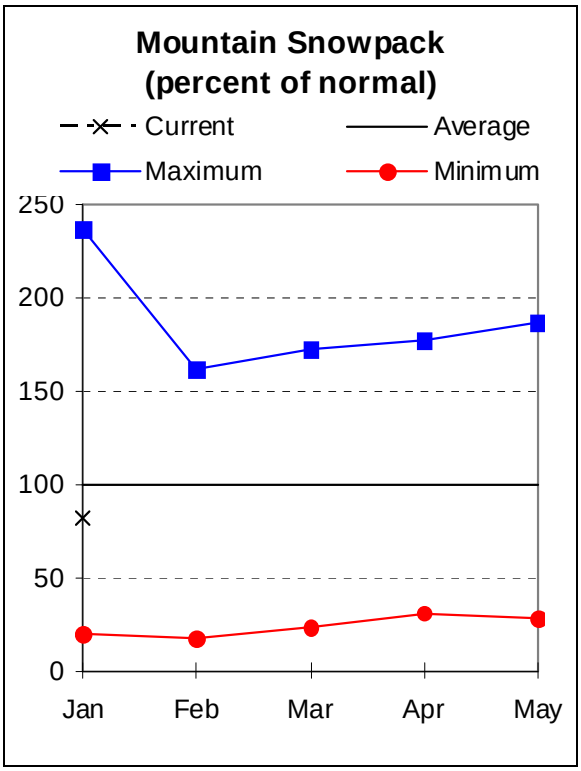
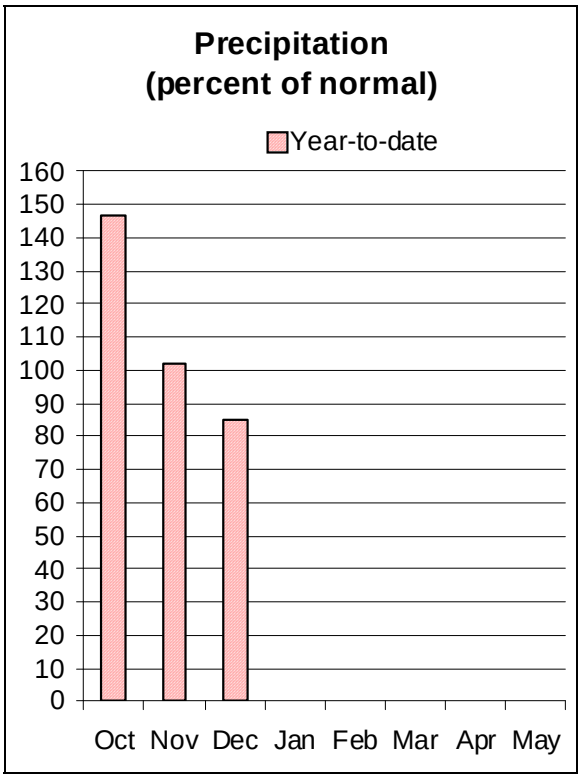
Lower Columbia Basin

January 1, 2010





Water Supply Outlook

On January 1, the snowpack in the Columbia basin above The Dalles was 85 percent of average. The Canadian snowpack is near average while the snow in the US portion of the basin is well below average.

Since the beginning of the water year, precipitation in the Columbia basin has been 85 percent of average. Locally, December precipitation in the Sandy basin was 66 percent of average.

At this point in the season, the April through September streamflow forecast for the Columbia at The Dalles is 83 percent of average. For the Sandy near Marmot, the April through September streamflow forecast is 91 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

LOWER COLUMBIA BASIN
Streamflow Forecasts - January 1, 2010

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Columbia R at The Dalles (2)	APR-JUL	50200	61900	69800	83	77700	89400	84600
	APR-SEP	58400	72000	81300	83	90600	104000	98600
Sandy R nr Marmot	APR-JUL	210	255	285	91	315	360	313
	APR-SEP	255	300	330	91	360	405	363

LOWER COLUMBIA BASIN
Reservoir Storage (1000 AF) - End of December

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg

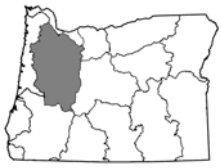
LOWER COLUMBIA BASIN
Watershed Snowpack Analysis - January 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
Sandy	7	64	82

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

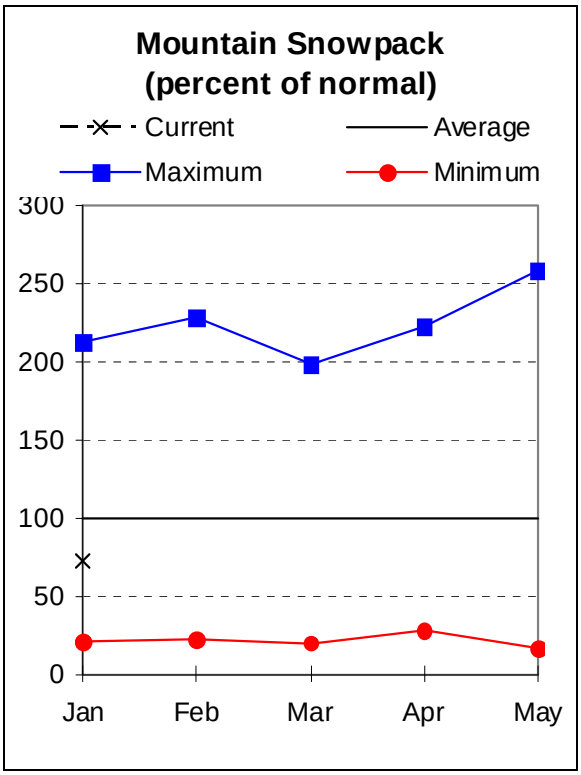
The average is computed for the 1971-2000 base period.

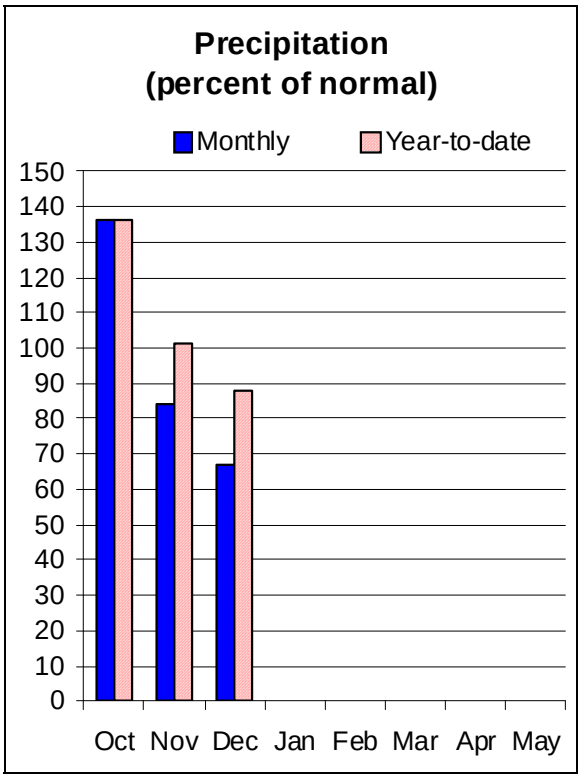
(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.



Willamette Basin

January 1, 2010





Water Supply Outlook

The Willamette basin ended water year 2009 with slightly below normal precipitation. Water year 2010 began with a slightly wetter than normal October. November and December were much drier than normal. As of January 1, total precipitation for water year 2010 has been 88 percent of average, the highest in the state. On January 1, the snowpack in the Willamette basin was 73 percent of average.

The January 1 storage at Timothy Lake and Henry Hagg reservoirs in the Willamette basin was 104 percent of average or 72 percent of capacity.

The April through September streamflow forecasts for the Willamette basin range from 74 percent of average for the Middle Fork Willamette below North Fork to 96 percent of average for the South Santiam at Waterloo. Elsewhere in the basin, the McKenzie near Vida is forecast to be 90 percent of average and the Willamette River at Salem is forecast to be 93 percent of average for the April through September period. At this point in the season, Willamette basin water users can anticipate slightly below to near normal streamflows during the summer of 2010.

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
Streamflow Forecasts - January 1, 2010

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Blue Lake Inflow (1,2)	FEB-MAY	68	118	140	86	162	210	163
	APR-JUL	32	59	71	83	83	110	86
	APR-SEP	38	63	75	87	87	112	86
Clackamas R at Estacada	APR-JUL	400	500	565	88	630	730	640
	APR-SEP	485	590	660	88	730	835	748
Clackamas R ab Three Lynx (2)	APR-JUL	280	350	395	83	440	510	474
	APR-SEP	355	425	475	85	525	595	562
Cottage Grove Lake Inflow (1,2)	FEB-MAY	33	58	70	81	82	107	87
	APR-JUL	9.0	26	34	84	42	59	41
	APR-SEP	10.7	28	36	84	44	61	43
Cougar Lake Inflow (1,2)	FEB-MAY	154	225	255	90	285	355	285
	APR-JUL	106	154	176	86	198	245	204
	APR-SEP	128	177	200	87	225	270	230
Detroit Lake Inflow (1,2)	FEB-MAY	425	595	670	90	745	915	744
	APR-JUL	250	385	450	85	515	650	528
	APR-SEP	310	455	520	84	585	730	616
Dorena Lake Inflow (1,2)	FEB-MAY	110	186	220	86	255	330	255
	APR-JUL	41	90	112	86	134	183	131
	APR-SEP	39	88	110	90	132	181	122
Fall Creek Lake Inflow (1,2)	FEB-MAY	95	140	160	81	180	225	197
	APR-JUL	37	72	88	83	104	139	106
	APR-SEP	43	78	94	84	110	145	112
Fern Ridge Lake Inflow (1,2)	FEB-MAY	51	128	163	91	198	275	180
	APR-JUL	10.1	31	40	83	49	70	49
	APR-SEP	12.4	31	40	80	49	68	50

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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WILLAMETTE BASIN
Streamflow Forecasts - January 1, 2010
(continued)

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Foster Lake Inflow (1,2)	FEB-MAY	475	705	810	92	915	1140	878
	APR-JUL	205	370	445	91	520	685	490
	APR-SEP	235	400	475	90	550	715	527
Green Peter Lake Inflow (1,2)	FEB-MAY	310	470	545	90	620	780	604
	APR-JUL	138	245	295	90	345	450	327
	APR-SEP	165	270	320	90	370	475	354
Hills Creek Reservoir Inflow (1,2)	FEB-MAY	153	255	300	77	345	445	388
	APR-JUL	125	190	220	79	250	315	277
	APR-SEP	159	230	260	81	290	360	320
Little North Santiam R nr Mehama (1)	APR-JUL	60	94	110	83	126	160	133
	APR-SEP	66	101	117	82	133	168	143
Lookout Point Lake Inflow (1,2)	FEB-MAY	390	670	800	78	930	1210	1025
	APR-JUL	305	500	585	81	670	865	726
	APR-SEP	400	595	685	83	775	970	828
McKenzie R bl Trail Bridge (2)	FEB-MAY	220	250	270	92	290	320	294
	APR-JUL	175	205	225	85	245	275	266
	APR-SEP	255	290	315	78	340	375	404
McKenzie R nr Vida (1,2)	FEB-MAY	770	1040	1160	90	1280	1550	1295
	APR-JUL	620	800	880	90	960	1140	977
	APR-SEP	790	985	1080	90	1160	1360	1201
Mohawk R nr Springfield	JAN-JUL	113	174	215	80	255	315	268
Oak Grove fk above Power Intake	APR-JUL	80	97	108	83	119	136	130
	APR-SEP	103	122	135	81	148	167	167

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
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WILLAMETTE BASIN
Streamflow Forecasts - January 1, 2010
(continued)

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>>						
		Chance Of Exceeding *						
		90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
North Santiam R at Mehama (1,2)	APR-JUL	455	615	690	94	765	925	732
	APR-SEP	555	715	785	94	855	1010	834
South Santiam R at Waterloo (2)	APR-JUL	315	440	525	96	610	735	549
	APR-SEP	355	480	565	96	645	770	587
Scoggins Ck nr Gaston (2)	FEB-JUL	21	31	37	86	43	53	43
Thomas Ck nr Scio	JAN-JUL	136	177	205	88	235	275	233
MF Willamette bl NF (1,2)	FEB-MAY	370	615	730	75	845	1090	973
	APR-JUL	300	455	525	75	595	750	698
	APR-SEP	355	515	590	74	665	825	798
Willamette R at Salem (1,2)	FEB-MAY	3820	6040	7050	90	8060	10300	7837
	APR-JUL	2590	3590	4040	93	4490	5490	4347
	APR-SEP	2940	3990	4460	93	4930	5980	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 December

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
BLUE RIVER	85.5	2.2	16.0	4.5
COTTAGE GROVE	29.8	0.8	7.7	2.8
COUGAR	155.2	4.5	20.8	72.6
DETROIT	300.7	7.6	25.9	66.2
DORENA	70.5	2.8	30.4	10.3
FALL CREEK	115.5	0.0	25.7	4.3
FERN RIDGE	109.6	2.9	4.0	11.6
FOSTER	29.7	1.7	0.0	4.1
GREEN PETER	268.2	15.5	50.9	92.5
HILLS CREEK	200.2	8.6	37.8	63.5
LOOKOUT POINT	337.0	14.4	69.3	38.2
TIMOTHY LAKE	61.7	49.2	49.1	49.2
HENRY HAGG LAKE	53.0	33.3	25.1	29.8

WILLAMETTE BASIN
Watershed Snowpack Analysis - January 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
Clackamas	4	64	75
McKenzie	8	59	67
Row River	1	39	42
Santiam	6	52	62
Middle Fork Willamette	7	66	81

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

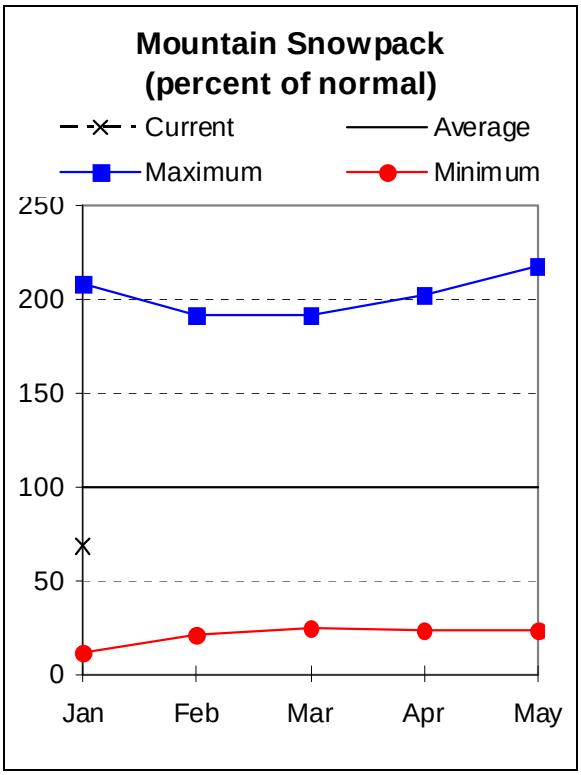
The average is computed for the 1971-2000 base period.

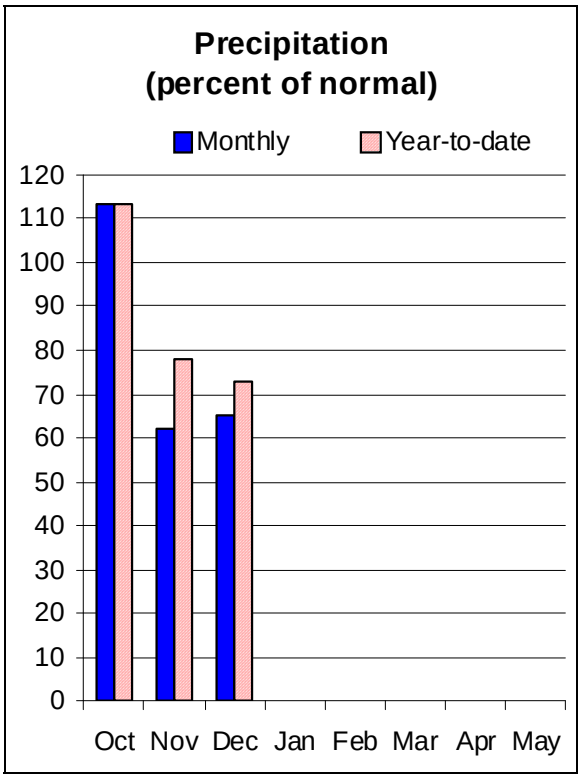
(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.

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

Rogue and Umpqua Basins

January 1, 2010





Water Supply Outlook

The Rogue and Umpqua River basins ended water year 2009 with slightly below normal precipitation. Water year 2010 began with a wet October followed by a dry November and December. As of January 1, total precipitation for water year 2010 was 73 percent of average. On January 1, the snowpack in the Rogue and Umpqua basins was 68 percent of average.

The January 1 storage at 5 irrigation reservoirs in the Rogue and Umpqua basin was 103 percent of average or 57 percent of capacity.

The April through September streamflow forecasts for the Rogue and Umpqua basin range from 74 percent of average for Cow Creek near Azalea to 91 percent of average for North Fork Little Butte Creek near Lakecreek. Elsewhere in the basin, the Rogue at Raygold is forecast to be 75 percent of average and the South Umpqua at Tiller is 81 percent of average for the April through September period.

At this point in the season, water users in the Rogue and Umpqua basins can expect below normal streamflows during the summer of 2010.

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
Streamflow Forecasts - January 1, 2010

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Applegate Lake Inflow (2)	FEB-JUL	27	107	161	79	215	295	205
	APR-JUL	16.0	57	85	76	113	154	112
	FEB-SEP	30	111	166	77	220	300	215
	APR-SEP	18.0	60	89	75	118	160	119
SF Big Butte Ck nr Butte Falls	APR-JUL	13.9	21	26	77	31	38	34
	APR-SEP	18.9	27	33	76	39	47	44
Cow Ck nr Azalea (2)	FEB-JUL	3.3	20	32	76	44	61	42
	APR-JUL	0.6	7.6	12.3	75	17.0	24	16.5
	APR-SEP	0.8	8.1	13.1	74	18.1	25	17.7
Hyatt Prairie Reservoir Inflow (2)	APR-JUL	0.3	2.0	3.1	65	4.2	5.9	4.8
Illinois R at Kerby	APR-JUL	25	98	148	83	198	270	179
	APR-SEP	29	103	153	82	205	275	186
NF Little Butte Ck nr Lakecreek (2)	APR-JUL	19.2	26	30	94	34	41	32
	APR-SEP	27	36	42	91	48	57	46
Lost Creek Lake Inflow (2)	FEB-JUL	460	585	675	82	765	890	825
	APR-JUL	295	380	435	82	490	575	530
	FEB-SEP	550	695	790	82	885	1030	960
	APR-SEP	390	485	550	83	615	710	665
Rogue R at Raygold (2)	APR-JUL	280	440	550	75	660	820	730
	APR-SEP	380	555	670	75	785	960	890
Rogue R at Grants Pass (2)	APR-JUL	285	470	595	80	720	905	740
	APR-SEP	370	565	700	79	835	1030	885
Sucker Ck bl Ltl Grayback Ck nr Holl	APR-JUL	7.8	27	40	77	53	72	52
	APR-SEP	9.8	30	43	77	56	76	56
North Umpqua R at Winchester	APR-JUL	445	600	705	89	810	965	795
	APR-SEP	545	705	815	89	925	1090	920
South Umpqua R nr Brockway	APR-JUL	105	235	325	81	415	545	400
	APR-SEP	114	250	340	81	430	565	420
South Umpqua R at Tiller	APR-JUL	68	122	158	82	194	250	193
	APR-SEP	75	129	166	81	205	255	205

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 December

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
APPLEGATE	75.2	0.0	0.6	11.1
EMIGRANT LAKE	39.0	13.9	16.7	17.6
FISH LAKE	8.0	4.9	6.3	5.2
FOURMILE LAKE	16.1	7.7	10.2	8.0
HOWARD PRAIRIE	60.0	41.4	44.4	37.7
HYATT PRAIRIE	16.1	12.0	13.6	9.4
LOST CREEK	315.0	0.5	14.6	136.3

ROGUE AND UMPQUA BASINS
Watershed Snowpack Analysis - January 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
Applegate	2	54	49
Bear Creek	2	59	54
Little Butte Creek	6	60	73
Illinois	1	25	40
North Umpqua	7	45	75
Rogue River above Grants	18	60	68

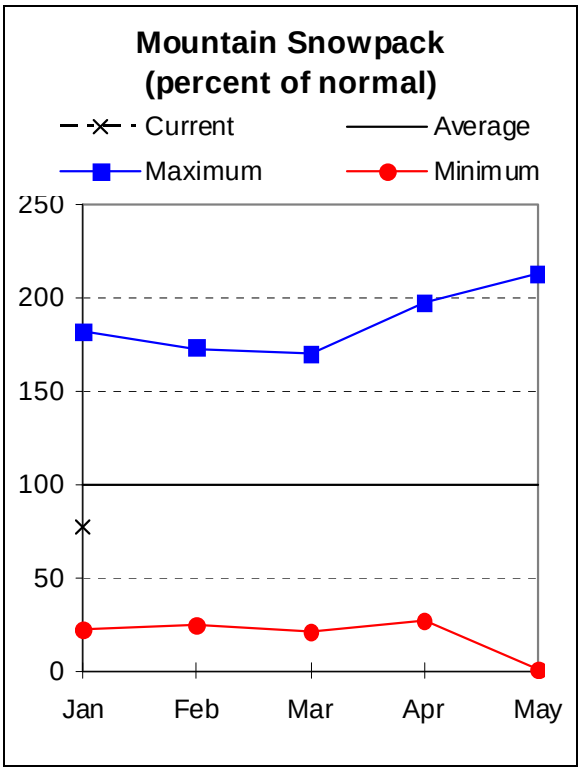
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

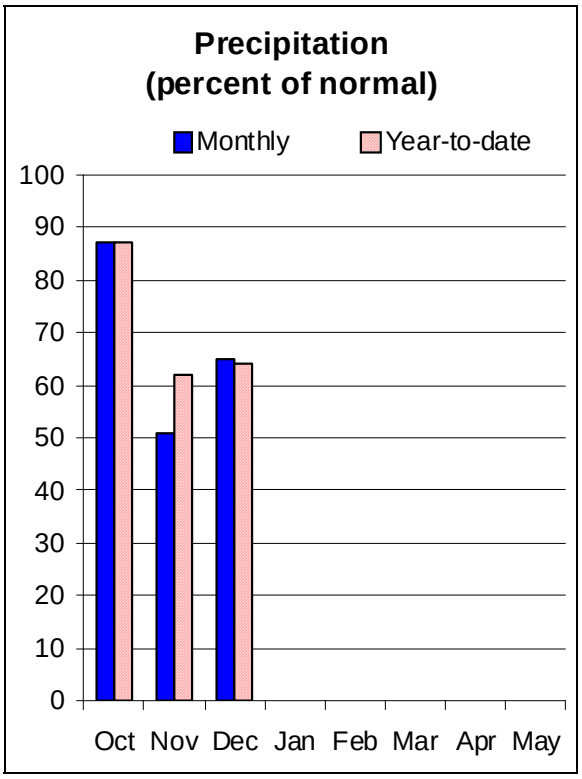
The average is computed for the 1971-2000 base period.

(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.

Klamath Basin

January 1, 2010





Water Supply Outlook

The Klamath basin ended water year 2009 with near normal precipitation. Water year 2010 began with near normal October precipitation followed by a very dry November and December. As of January 1, water year 2010 total precipitation has been 64 percent of average, the lowest in the state. On January 1, the snowpack in the Klamath basin was 77 percent of average.

The January 1 storage at Upper Klamath Lake and Gerber reservoirs was 51 percent of average or 29 percent of capacity. Low water levels in Clear Lake reservoir (CA) make current measurements unreliable.

The April through September streamflow forecasts for the Klamath basin range from 45 percent of average for Gerber Reservoir Inflow to 75 percent of average for the Williamson River below Sprague River near Chiloquin. Elsewhere in the basin, the Upper Klamath Lake Inflow forecast for the April through September period is 72 percent of average.

At this point in the forecast season, water users in the Klamath basin may anticipate below normal summer water supplies.

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 - January 1, 2010

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Clear Lake Inflow (2)	FEB-JUL	3.0	41	75	71	109	160	105
	APR-SEP	1.0	17.7	31	65	44	64	48
Gerber Reservoir Inflow (2)	FEB-JUL	1.4	9.8	25	53	40	63	47
	APR-SEP	0.2	2.3	8.0	45	15.1	26	17.8
Sprague R nr Chiloquin	FEB-JUL	73	173	240	74	305	405	325
	JAN-SEP	114	220	290	74	360	465	390
	APR-SEP	53	120	165	72	210	275	230
Upper Klamath Lake Inflow	FEB-JUL	174	435	550	71	665	925	780
	JAN-SEP	295	595	730	71	865	1160	1030
	APR-SEP	132	295	370	72	445	610	515
Williamson R bl Sprague R nr Chiloqu	FEB-JUL	172	290	370	71	450	570	520
	JAN-SEP	265	390	475	73	560	685	654
	APR-SEP	157	235	290	75	345	425	385

KLAMATH BASIN
Reservoir Storage (1000 AF) - End of December

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
CLEAR LAKE (CALIF)		NO REPORT		
GERBER	94.3	23.4	44.9	41.8
UPPER KLAMATH LAKE	523.7	157.8	230.1	313.9

KLAMATH BASIN
Watershed Snowpack Analysis - January 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
Lost	2	85	100
Sprague	5	79	75
Upper Klamath Lake	7	75	74
Williamson River	5	80	80

* 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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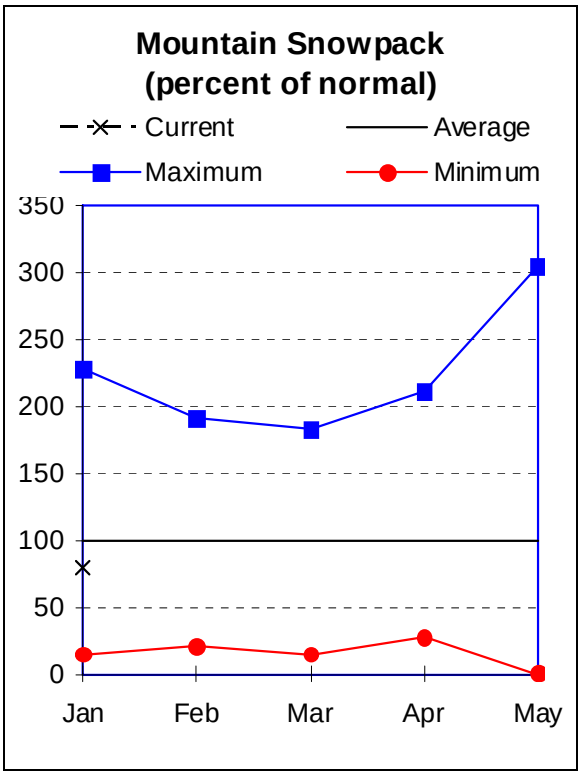
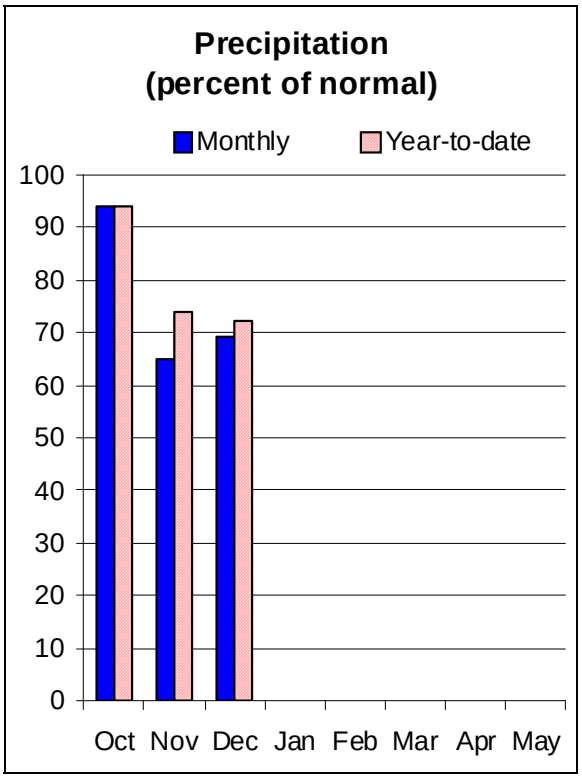
Klamath Falls - (541) 883-6932
Or visit: http://www.wcc.nrcs.usda.gov/cgibin/bor.pl

Lake County and Goose Lake

January 1, 2010





Water Supply Outlook

The Lake County and Goose Lake basins ended water year 2009 with near normal precipitation. Water year 2010 began with normal precipitation in October. November and December were much drier than normal. As of January 1, total precipitation for water year 2010 has been 72 percent of average. On January 1, the snowpack in the Lake County and Goose Lake basins was 79 percent of average.

January 1 storage at Cottonwood and Drews reservoirs was 10 percent of average or 4 percent of capacity.

At this point in the season, the April through September streamflow forecasts for most points in the basin are well below normal. In particular, the April through September forecasts range from 51 percent of average for Honey Creek near Plush to 72 percent of average for the Chewaucan River near Paisley. Water users in the Lake County and Goose Lake basins may anticipate reduced water supplies during the summer of 2010.

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 - January 1, 2010

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Chewaucan R nr Paisley	MAR-JUL	21	47	65	73	83	109	89
	APR-SEP	19.1	41	56	72	71	93	78
Deep Ck ab Adel	MAR-JUL	12.0	38	56	67	74	100	84
	APR-SEP	10.7	31	45	65	59	79	69
Honey Ck nr Plush	MAR-JUL	0.6	3.3	10.0	50	16.7	26	20
	APR-SEP	0.3	3.0	8.5	51	14.0	22	16.6
Silver Ck nr Silver Lake (2)	MAR-JUL	0.6	3.5	8.2	56	12.9	19.8	14.6
	APR-SEP	0.1	2.4	5.9	53	9.4	14.6	11.2
Twentymile Ck nr Adel	MAR-JUL	0.6	7.3	15.0	54	28	48	28
	APR-SEP	0.2	3.0	9.0	52	18.5	32	17.4

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

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg
COTTONWOOD	8.7	3.1	6.3	2.3
DREWS	63.0	0.0	8.0	28.9

LAKE COUNTY AND GOOSE LAKE BASINS
Watershed Snowpack Analysis - January 1, 2010

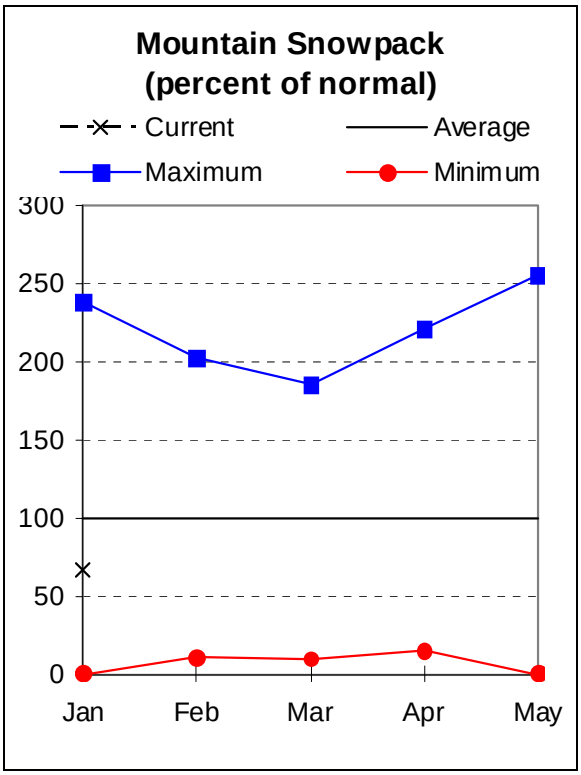
Watershed	Number of Data Sites	This Year as % of Last Yr	Average
Chewaucan River	3	87	70
Deep Creek	0	108	0
Drew Creek	2	48	60
Honey Creek	0	108	0
Silver Creek (Lake Co.)	4	85	79
Twentymile Creek	0	108	0

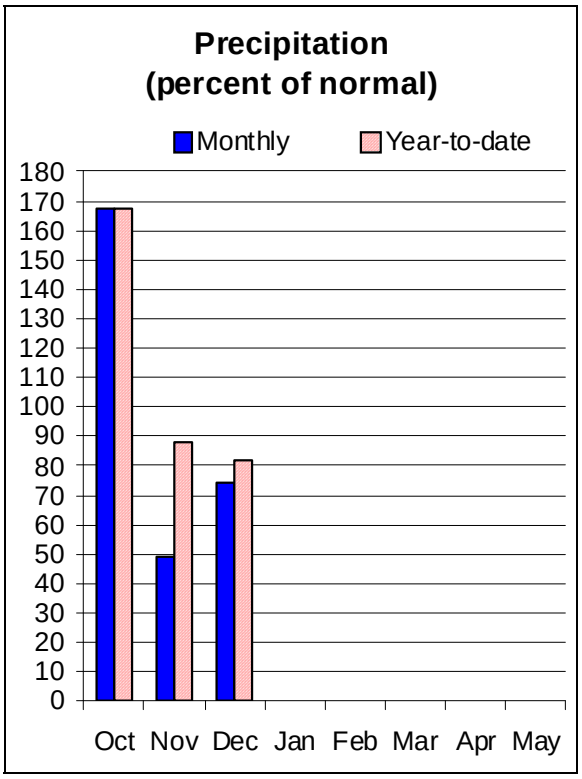
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.
The average is computed for the 1971-2000 base period.
(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - 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:
Lakeview - (541) 947-2202
Or visit: http://www.wcc.nrcs.usda.gov/cgibin/bor.pl

Harney Basin

January 1, 2010





Water Supply Outlook

The Harney basin ended water year 2009 with near normal precipitation. Water year 2010 began with a very wet October. November and December were much drier than average. As of January 1, total precipitation for water year 2010 has been 82 percent of average. On January 1, the snowpack in the Harney basin was 66 percent of average, the lowest in the state.

At this point in the season, summer streamflow forecasts for most points in the basin are well below normal. In particular, the April through September forecast for the Donner Und Blitzen River near Frenchglen is expected to be 73 percent of average. The Silvies River near Burns is expected to 64 percent of average for the same period. The April through September forecast for Trout Creek near Denio is 51 percent of average. Water users in the Harney basin may anticipate reduced water supplies during the summer of 2010.

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

HARNEY BASIN
Streamflow Forecasts - January 1, 2010

Forecast Point	Forecast Period	<<====== Drier ====== Future Conditions ======= Wetter =====>> Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (1000AF)	50% (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Donner Und Blitzen R nr Frenchglen	MAR-JUL	24	43	55	73	67	86	75
	APR-SEP	21	39	51	73	63	81	70
Silvies R nr Burns	MAR-JUL	3.0	46	81	63	116	167	129
	APR-SEP	4.1	39	63	64	87	122	99
Trout Ck nr Denio	MAR-JUL	0.2	3.5	5.8	52	8.1	11.5	11.1
	APR-SEP	0.3	3.1	5.3	52	7.5	10.7	10.3

HARNEY BASIN
Reservoir Storage (1000 AF) - End of December

Reservoir	Usable Capacity	*** Usable Storage *** This Year	Last Year	Avg

HARNEY BASIN
Watershed Snowpack Analysis - January 1, 2010

Watershed	Number of Data Sites	This Year as % of Last Yr	Average
Donner und Blitzen River	2	95	76
Silver Creek (Harney Co.)	2	62	52
Silvies River	5	83	67
Trout Creek	2	73	62

* 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.

Recession Forecasts for Oregon

Recession flow forecasts are presented below for key streamflow sites where reliable daily streamflow data are available. The recession flow forecasts use exceedance probabilities in a format similar to the standard water supply forecasts presented in this document. Each forecast provides a range of possible outcomes representing the uncertainty of forecasting models.

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

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	Mar 10	Apr 21	Jun 2	**May 6**
Owyhee R nr Rome	1000 cfs	Mar 12	Apr 26	Jun 12	**May 18**
Owyhee R nr Rome	500 cfs	Mar 28	May 13	Jun 28	**Jun 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	24	168	415	**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 9	May 25	Jun 10	**May 25**
Crane Prairie Inflow	Peak Flow	136	300	465	**403**
Crane Prairie Inflow	Average Daily Flow on Oct. 1st	111	191	270	**269**
Prineville Reservoir Inflow	113 cfs	Apr 27	May 24	Jun 20	**June 3**
Prineville Reservoir Inflow	75 cfs	May 3	May 31	Jun 28	**June 11**
Prineville Reservoir Inflow	50 cfs	May 11	Jun 8	Jul 6	**June 19**
Whychus Creek nr Sisters	100 cfs	Jul 5	Aug 7	Sep 9	**August 16**

ROGUE AND UMPQUA BASINS					
FORECAST POINT	*FORECAST THRESHOLD*	*FORECAST VALUE ---------- CHANCE OF EXCEEDING ---------- 90%*	*50%*	*10%*	*LONG-TERM AVERAGE VALUE*
South Umpqua R nr Brockway *	90 cfs	July 9	Jul 29	Aug 18	**August 8**
South Umpqua R at Tiller	140 cfs	Jun 11	Jul 4	Jul 27	**July 11**
South Umpqua R at Tiller	90 cfs	Jun 30	Jul 24	Aug 17	**August 1**
South Umpqua R at Tiller	60 cfs	Jul 23	Aug 23	Sep 23	**August 28**

LAKE COUNTY AND GOOSE LAKE BASINS					
FORECAST POINT	*FORECAST THRESHOLD*	*FORECAST VALUE ---------- CHANCE OF EXCEEDING ---------- 90%*	*50%*	*10%*	*LONG-TERM AVERAGE VALUE*
Deep Ck ab Adel	100 cfs	May 17	Jun 9	Jul 2	**June 17**
Honey Ck nr Plush	100 cfs	Apr 2	May 8	Jun 13	**May 16**
Honey Ck nr Plush	50 cfs	Apr 18	May 20	Jun 21	**June 4**
Twentymile Ck nr Adel	50 cfs	Apr 10	May 14	Jun 17	**May 30**
Twentymile Ck nr Adel	10 cfs	Jun 2	Jun 30	Jul 28	**July 7**

HARNEY BASIN					
FORECAST POINT	*FORECAST THRESHOLD*	*FORECAST VALUE ---------- CHANCE OF EXCEEDING ---------- 90%*	*50%*	*10%*	*LONG-TERM AVERAGE VALUE*
Silvies R nr Burns	400 cfs	Apr 10	May 5	May 30	**May 21**
	200 cfs	Apr 18	May 15	Jun 11	**June 2**
	100 cfs	Apr 25	May 25	Jul 24	**June 13**
	50 cfs	May 12	Jun 19	Jul 27	**July 3**
Donner Und Blitzen R nr Frenchglen	200 cfs	May 18	Jun 9	Jul 1	**June 20**
Donner Und Blitzen R nr Frenchglen	100 cfs	Jun 8	Jun 29	Jul 20	**July 9**

Summary of Snow Course Data

January 2010

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
Oregon						
ANEROID LAKE SNOTEL	7400	1/01/10	31	7.4	5.6	11.0
ANNIE SPRING SNOTEL	6010	1/01/10	50	13.0	13.5	17.0
ANTHONY LAKE (REV)	7130	12/31/09	31	7.3	10.2	--
ARBUCKLE MTN SNOTEL	5770	1/01/10	35	7.3	8.4	8.9
BEAVER DAM CREEK	5100	12/29/09	16	3.9	8.7	6.3
BEAVER RES. SNOTEL	5150	1/01/10	24	4.9	2.9	4.1
BIG RED MTN SNOTEL	6050	1/01/10	28	6.3	6.9	11.6
BIGELOW CAMP SNOTEL	5130	1/01/10	5	2.3	9.1	5.8
BILLIE CK DVD SNOTEL	5280	1/01/10	33	7.9	9.7	9.8
BLAZED ALDER SNOTEL	3650	1/01/10	36	9.7	20.3	14.1
BLUE MTN SPGS SNOTEL	5870	1/01/10	30	6.1	7.0	7.8
BOURNE SNOTEL	5850	1/01/10	31	6.3	6.5	7.3
BOWMAN SPRNGS SNOTEL	4530	1/01/10	16	3.8	5.4	4.4
CAMAS CREEK #3	5850	12/30/09	28	7.0	6.5	--
CASCADE SUM. SNOTEL	5100	1/01/10	46	13.3	15.7	13.5
CHEMULT ALT SNOTEL	4850	1/01/10	21	5.0	4.9	4.6
CLACKAMAS LK. SNOTEL	3400	1/01/10	19	5.3	8.4	6.9
CLEAR LAKE SNOTEL	3810	1/01/10	19	3.6	6.1	5.9
COLD SPRINGS SNOTEL	5940	1/01/10	39	9.7	14.2	13.1
COUNTY LINE SNOTEL	4830	1/01/10	12	3.0	3.4	2.6
CRAZYMAN FLAT SNOTEL	6180	1/01/10	30	4.9	5.3	7.4
DALY LAKE SNOTEL	3690	1/01/10	14	3.9	11.6	8.1
DEADHORSE GRADE	3700	1/04/10	6	1.7	--	4.8
DEADWOOD JUNCTION	4600	12/29/09	14	3.8	7.1	4.3
DERR SNOTEL	5850	1/01/10	30	5.3	5.0	6.1
DIAMOND LAKE SNOTEL	5280	1/01/10	20	6.6	11.3	7.3
DOOLEY MOUNTAIN	5430	12/29/09	17	3.7	3.6	3.5
EAST EAGLE	4400	1/05/10	48	10.0	5.5	11.0
EILERTSON SNOTEL	5510	1/01/10	22	5.4	5.0	4.7
ELDORADO PASS	4600	12/29/09	8	1.1	3.0	2.1
EMIGRANT SPGS SNOTEL	3800	1/01/10	11	3.7	4.8	4.1
FISH CREEK SNOTEL	7660	1/01/10	42	8.5	9.9	11.6
FISH LK. SNOTEL	4660	1/01/10	20	5.1	8.1	6.2
FOURMILE LAKE SNOTEL	5970	1/01/10	41	10.4	15.8	14.3
GERBER RES SNOTEL	4890	1/01/10	8	1.7	1.6	1.4
GOLD CENTER SNOTEL	5410	1/01/10	21	4.1	4.8	5.1
GREENPOINT SNOTEL	3310	1/01/10	16	6.6	10.4	9.5
HIGH RIDGE SNOTEL	4920	1/01/10	44	10.3	12.6	10.4
HOGG PASS SNOTEL	4790	1/01/10	41	9.8	12.3	17.0
HOLLAND MDWS SNOTEL	4930	1/01/10	32	5.7	14.5	13.7
HOWARD PRAIRIE	4500	12/29/09	6	1.4	5.1	3.7
HUNGRY FLAT	4400	12/29/09	0	.0	3.4	2.1
IRISH-TAYLOR SNOTEL	5540	1/01/10	50	14.1	18.4	15.6
JUMP OFF JOE SNOTEL	3520	1/01/10	14	2.7	8.3	5.7
KING MTN #1	4500	12/29/09	7	1.2	5.6	3.7
KING MTN #2 SNOTEL	4340	1/01/10	5	1.4	3.8	2.5
KING MTN #3	3650	12/29/09	0	.0	2.2	.9
KING MTN #4	3050	12/29/09	0	.0	.0	.3
LAKE CK R.S. SNOTEL	5240	1/01/10	23	4.3	3.7	5.7
LITTLE ALPS	6200	12/31/09	17	3.0	5.0	5.3
LITTLE ANTONE (ALT)	5000	12/31/09	14	3.0	5.0	3.9
LITTLE MEADOW SNOTEL	4020	1/01/10	30	9.8	15.3	11.9
LUCKY STRIKE SNOTEL	4970	1/01/10	16	4.4	4.9	4.5
MADISON BUTTE SNOTEL	5150	1/01/10	8	3.0	4.3	3.2
MARION FORKS SNOTEL	2590	1/01/10	17	3.9	9.1	4.6
MARKS CREEK	4540	12/29/09	6	1.7	3.8	2.1
MCKENZIE SNOTEL	4770	1/01/10	50	14.4	24.2	19.3
MEACHAM	4300	1/04/10	22	5.0	5.8	4.1
MILKSHAKES SNOTEL	5580	1/01/10	56	15.5	15.5	--
MILLER WOODS SNOTEL	420	1/01/10	0	.0	1.1	--
MOSS SPRINGS SNOTEL	5760	1/01/10	42	9.4	10.1	11.6

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
Oregon (continued)						
MT HOOD	5370	12/30/09	68	24.2	23.2	28.7
MT HOOD TEST SNOTEL	5370	1/01/10	64	22.0	21.8	29.3
MT HOWARD SNOTEL	7910	1/01/10	21	9.3	7.6	7.7
MUD RIDGE SNOTEL	4070	1/01/10	37	9.7	12.0	12.2
NEW CRESCENT SNOTEL	4910	1/01/10	29	5.9	8.7	6.1
NEW DUTCHMAN #3	6400	12/29/09	45	13.8	23.0	23.5
NORTH FK RES SNOTEL	3060	1/01/10	21	7.2	18.6	6.8
OCHOCO MEADOW SNOTEL	5430	1/01/10	24	3.0	3.9	4.7
PARK H.Q. REV	6550	12/30/09	58	17.8	24.6	25.2
PEAVINE RIDGE SNOTEL	3420	1/01/10	19	4.4	9.3	5.5
QUARTZ MTN SNOTEL	5720	1/01/10	0	.0	2.1	1.4
R.R. OVERPASS SNOTEL	2680	1/01/10	1	.1	3.7	.5
RED BUTTE #1	4560	12/28/09	11	2.7	11.2	5.1
RED BUTTE #2	4000	12/28/09	1	.2	4.2	2.6
RED BUTTE #3	3500	12/28/09	0	.0	4.8	1.5
RED BUTTE #4	3000	12/28/09	0	.0	4.2	.8
RED HILL SNOTEL	4410	1/01/10	53	19.5	23.4	20.1
ROARING RIVER SNOTEL	4950	1/01/10	32	9.6	13.8	11.8
ROCK SPRINGS SNOTEL	5290	1/01/10	15	1.4	1.9	2.3
SADDLE MTN SNOTEL	3110	1/01/10	1	1.0	20.1	3.2
SALT CK FALLS SNOTEL	4220	1/01/10	25	5.5	12.5	8.0
SANTIAM JCT. SNOTEL	3740	1/01/10	19	5.2	11.9	9.2
SCHNEIDER MDW SNOTEL	5400	1/01/10	56	10.4	9.4	14.7
SEINE CREEK SNOTEL	2060	1/01/10	0	.9	5.0	1.5
SEVENMILE MARSH SNTL	5700	1/01/10	37	8.9	12.2	13.4
SILVER BURN	3720	12/30/09	14	2.7	7.5	5.4
SILVER CREEK SNOTEL	5740	1/01/10	26	3.1	6.1	4.7
SILVIES SNOTEL	6990	1/01/10	22	5.4	4.8	6.7
SISKIYOU SUMMIT REV	4630	12/29/09	6	1.6	6.4	2.9
SNOW MTN SNOTEL	6220	1/01/10	13	1.9	3.0	4.5
SF BULL RUN SNOTEL	2690	1/01/10	6	1.5	12.2	1.3
STARR RIDGE SNOTEL	5250	1/01/10	17	2.1	3.5	3.2
STRAWBERRY SNOTEL	5770	1/01/10	13	2.6	3.3	2.9
SUMMER RIM SNOTEL	7080	1/01/10	27	6.5	5.7	7.4
SUMMIT LAKE SNOTEL	5610	1/01/10	49	15.6	18.7	15.4
SUN PASS SNOTEL	5400	1/01/10	40	10.2	12.2	--
SWAN LAKE MTN SNOTEL	6830	1/01/10	26	7.3	8.7	--
TANGENT	5400	12/29/09	25	7.7	9.4	9.5
TAYLOR BUTTE SNOTEL	5030	1/01/10	18	3.6	4.1	3.3
TAYLOR GREEN SNOTEL	5740	1/01/10	---	4.9	7.5	8.9
THREE CK MEAD SNOTEL	5690	1/01/10	28	6.0	9.3	8.5
TIPTON SNOTEL	5150	1/01/10	29	5.2	5.4	6.4
TOKETTE AIRSTRIP SN	3240	1/01/10	2	1.8	5.7	3.2
TOLLGATE	5070	1/04/10	49	13.2	10.4	12.1
WOLF CREEK SNOTEL	5630	1/01/10	26	5.3	6.6	7.0
California						
ADIN MTN SNOTEL	6190	1/01/10	29	6.8	6.1	5.9
CEDAR PASS SNOTEL	7030	1/01/10	27	6.3	6.5	7.2
CROWDER FLAT SNOTEL	5170	1/01/10	19	4.0	2.2	1.9
DISMAL SWAMP SNOTEL	7360	1/01/10	33	7.9	8.9	11.5
Idaho						
MUD FLAT SNOTEL	5730	1/01/10	24	3.7	3.1	3.2
SILVER CITY	6400	12/29/09	23	6.0	9.4	7.2
SOUTH MTN SNOTEL	6500	1/01/10	22	5.3	6.7	7.7
Nevada						
BEAR CREEK SNOTEL	7800	1/01/10	20	3.3	9.9	8.0
BIG BEND SNOTEL	6700	1/01/10	17	3.1	5.1	3.9
BUCKSKIN,L SNOTEL	6700	1/01/10	20	3.3	3.2	3.9
DISASTER PEAK SNOTEL	6500	1/01/10	9	1.9	4.4	5.3
FAWN CREEK SNOTEL	7050	1/01/10	30	6.2	6.0	7.5
GRANITE PEAK SNOTEL	7800	1/01/10	25	3.9	5.4	8.5
JACK CREEK, U SNOTEL	7280	1/01/10	30	4.7	5.8	7.7
LAMANCE CREEK SNOTEL	6000	1/01/10	18	3.0	4.1	5.9
LAUREL DRAW SNOTEL	6700	1/01/10	23	4.5	5.8	4.9
SEVENTYSIX CK SNOTEL	7100	1/01/10	17	2.7	4.0	4.8
TAYLOR CANYON SNOTEL	6200	1/01/10	10	1.8	4.0	2.0

(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.

OWYHEE AND MALHEUR BASINS
Streamflow Forecasts - February 1, 2006

		<<====== Drier ====== Future Conditions ======= Wetter =====>>				
Forecast Point	Forecast Period	Chance Of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	50% (Most Probable) (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (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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