

GENERAL OUTLOOK

January 1, 2004

SUMMARY

The 2004 Water Year had a slow beginning, with most basins in Oregon having below average precipitation in the early fall. However near the end of December, winter storms began and the snowpack in the mountains of Oregon really began to increase. As of January 1, the mountain snowpack in Oregon ranges between 136 percent of average in the Lake County area and 99 percent of average in the Umatilla Basin. December precipitation varies between 159 percent of average in the Owyhee/Malheur Basins and 99 percent of average in the Hood River area. Since the start of the water year, precipitation amounts across Oregon range between 106 percent of average in the Owyhee/Malheur Basins and 81 percent of average in the Klamath Basin. Reservoir storage remains very low throughout Oregon. The December end-of-month reservoir storage was between 16 percent of average in the Owyhee/Malheur Basins and 81 percent of average in the Upper Deschutes Basin. The streamflow forecasts for the coming spring and summer months are between 130 percent of average on the North Fork of the Crooked River and 64 percent of average on the inflow into Drews Reservoir. Early indications are that adequate water supplies should be available for most users, however careful water management techniques may be necessary in some locations to ensure the supply lasts the season.

SNOWPACK

The snowpack is off to a great start for the 2004 water year. Many of the areas of the state that need above average snowpack to help fill the water deficit from last year, currently have a snowpack above average. However it is still early in the water year, and the snowpack still needs to accumulate. The January 1, snowpack in the mountains of Oregon ranges from 136 percent of average in Lake County to 99 percent of average in the Umatilla Basin. It is still early in the snow season and the snow needs to keep accumulating to help make up the water shortages experienced last year.

PRECIPITATION

December precipitation was above average in all basins except in the Hood River area, and ranges between 159 percent of average in the Owyhee/Malheur Basins and 99 percent of average in the Hood River drainage. Since the start of the water year, precipitation amounts have been between 106 percent of average in the Owyhee/Malheur and 81 percent of average in the Klamath Basin. Precipitation in the early fall was generally well below average, in

most of the Southern and Eastern basins of Oregon. The importance of that is that soil moisture deficit was not completely made up. Still, precipitation amounts in November and December have helped bring the seasonal total state-wide precipitation too nearly average.

RESERVOIRS

Reservoir storage still remains well below average for most locations in the state, particularly in Eastern Oregon where the water stored is less than 30 percent of average. The December end-of-month reservoir contents vary from a high of 81 in the Upper Deschutes Basin to a low of 16 percent of average in the Owyhee/Malheur Basins. At the end of December there were 800,200 acre-feet of water store in 27 major irrigation in the state, representing 48 percent of average and 25 percent of the capacity.

STREAMFLOW

Streamflows are expected to be near average for the coming spring and summer months in Oregon this year. The January 1 forecasts are between 130 percent of average on the North Fork of the Crooked River and 64 percent of average on the inflow onto Drews Reservoir. Despite the near normal forecasts, some areas still may experience water shortages due in-part to depleted reservoirs. The following table is a summary of selected forecasts.

STREAM	PERIOD	PERCENT OF
AVERAGE		
Owyhee Net Inflow	Feb-Jul	123
Grande Ronde at La Grande	Apr-Sep	98
Umatilla at Pendleton	Mar-Sep	104
Deschutes at Benham Falls	Apr-Sep	93
Willamette MF nr Oakridge	Apr-Sep	100
Rogue at Raygold	Apr-Sep	100
Upper Klamath L. Net Inflow	Apr-Sep	78
Silvies nr Burns	Apr-Sep	81

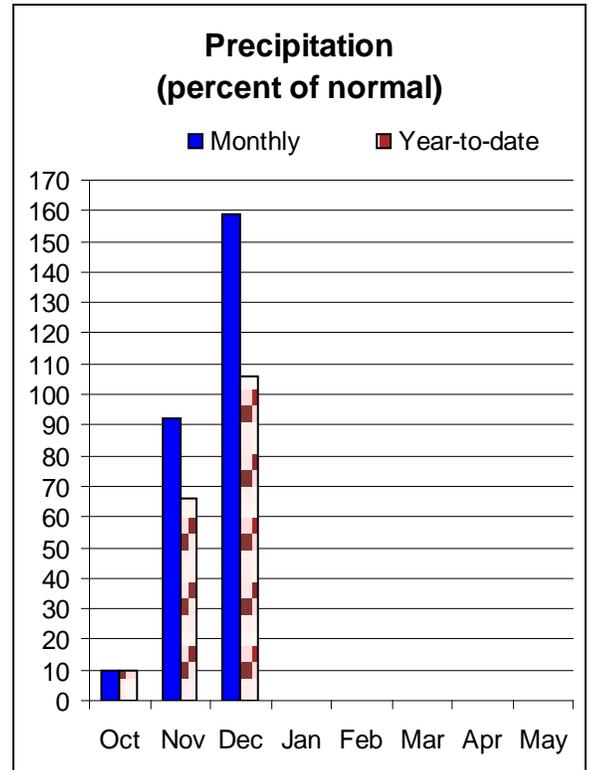
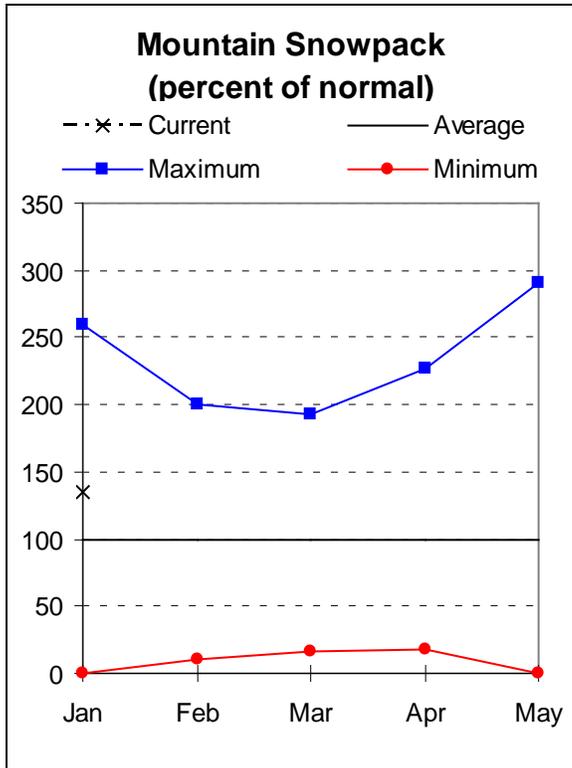
Some of these forecasts assume normal weather conditions will occur from now to the end of the forecast period.

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

January 1, 2004



Water Supply Outlook

The mountain snowpack as of January 1, was 135 percent of average, a big improvement from last year. December precipitation was 159 percent of average, the best percentage in the state. This brings the total precipitation since the start of the water year to 106 percent of average, also the highest percentage in the state. However, reservoir storage is 16 percent of average, the lowest in the state. The streamflow forecasts for the spring and summer months are between 123 percent of average on the Owyhee Reservoir inflow and the Owyhee at Rome and 84 percent of average on the North Fork Malheur. Adequate water supplies are expected this season, provided the irrigation reservoirs receive adequate inflow.

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

OWYHEE AND MALHEUR BASINS
Streamflow Forecasts - January 1, 2004

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)	
BULLY CREEK RESERVOIR INFLOW	MAR-MAY	3.7	6.8	9.5	86	22	39	11.0
MALHEUR near Drewsey	FEB-JUL	72	99	120	97	143	180	124
	APR-SEP	32	49	63	85	78	104	74
NF MALHEUR at Beulah	FEB-JUL	52	66	77	84	88	107	92
OWYHEE RESV INFLOW (2)	FEB-JUL	444	654	820	123	1005	1310	665
	APR-SEP	249	377	480	120	595	786	400
OWYHEE near Rome	FEB-JUL	426	637	805	123	992	1304	655
SUCCOR CK nr Jordan Valley	FEB-JUL	42	49	54	117	59	66	46

OWYHEE AND MALHEUR BASINS Reservoir Storage (1000 AF) - End of December					OWYHEE AND MALHEUR BASINS Watershed Snowpack Analysis - January 1, 2004			
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	7.7	8.2	22.8	Owyhee River	8	149	146
BULLY CREEK	30.0	4.7	6.9	11.1	Malheur	4	135	116
OWYHEE	715.0	56.0	113.7	398.1	Jordan Creek	2	161	150
WARMSPRINGS	191.0	12.1	12.2	78.5	Bully Creek	0	0	0

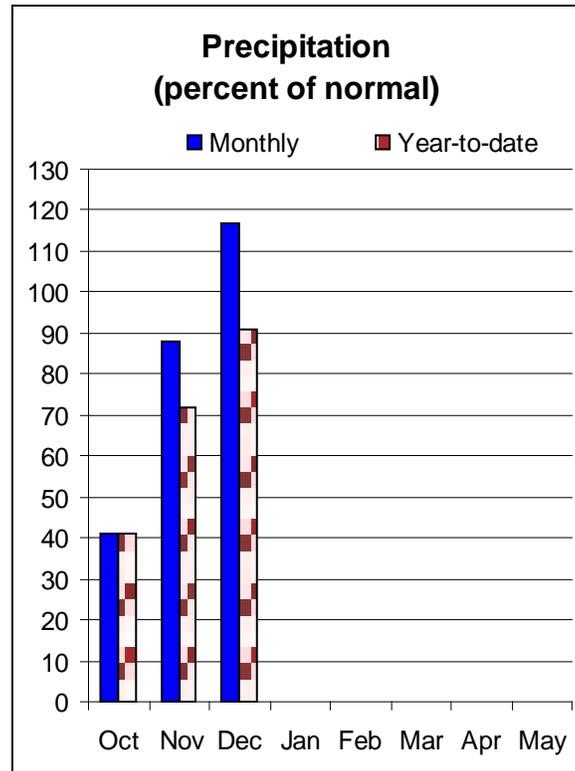
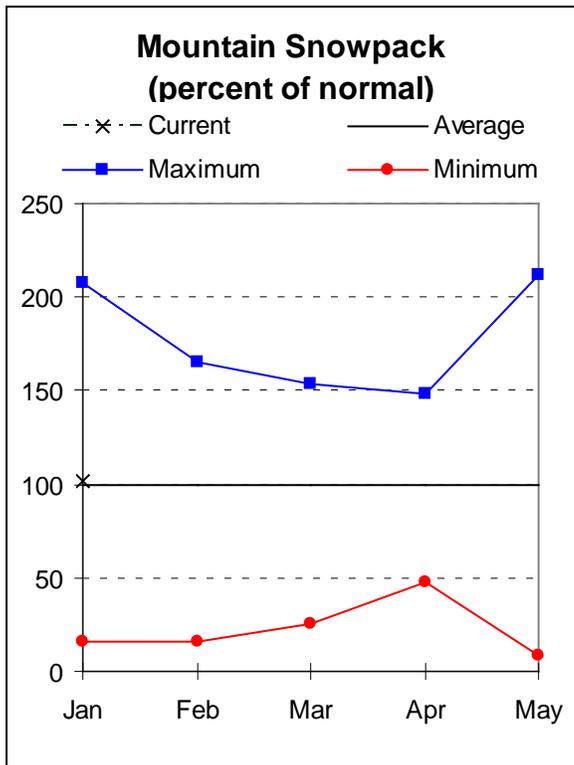
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The average is computed for the 1971-2000 base period.

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

BURNT, POWDER, GRAND RONDE, AND IMNAHA BASINS

January 1, 2004



Water Supply Outlook

The snowpack in the northeast corner of Oregon was 102 percent of average as of January 1. December precipitation was 117 percent of average, bringing the total since the start of the water year to 91 percent of average. Water stored in the major irrigation reservoirs in the basin was 24 percent of average as of the end of December. The streamflow forecasts for the coming spring and summer months are between 109 percent of average on Catherine Creek and 73 percent of average on Anthony Creek. Adequate water supplies are expected this season, provided the irrigation reservoirs are able to refill

For more information contact your local
Natural Resources Conservation Service Office
Enterprise- (541) 426-4588; Baker City - (541) 523-7121; LaGrande - (541) 963-4178

BURNT, POWDER, PINE, GRANDE RONDE AND IMNAHA BASINS
Streamflow Forecasts - January 1, 2004

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		<<===== Drier =====>>		===== Wetter =====>>				
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	% AVG.)	30% (1000AF)	10% (1000AF)	
ANTHONY CK bl NF nr North Powder	FEB-JUL	7.0	10.6	13.0	73	15.4	19.0	17.9
BEAR CREEK near Wallowa	APR-SEP	40	52	60	92	68	80	65
BIG CK bl Burn Ck nr Medical Spgs	FEB-JUL	9.9	12.1	13.6	90	15.1	17.3	15.1
BURNT near Hereford (2)	FEB-JUL	33	45	53	96	61	73	55
	APR-SEP	21	32	39	105	46	57	37
CATHERINE CREEK near Union	APR-SEP	54	65	72	109	79	90	66
DEER CK nr Sumpster	FEB-JUL	7.0	11.5	14.5	75	17.5	22	19.4
EAGLE CREEK	APR-JUL	104	132	150	93	168	198	161
	APR-SEP	115	144	164	93	184	212	176
GRANDE RONDE at La Grande	MAR-JUL	164	210	240	98	270	315	245
	APR-SEP	119	158	184	98	210	250	188
GRANDE RONDE at Troy (1)	MAR-JUL	757	1268	1500	95	1730	2245	1580
	APR-SEP	636	1100	1310	96	1520	1985	1370
HURRICANE CREEK near Joseph	APR-SEP	35	40	43	102	46	51	42
IMNAHA at Imnaha	APR-SEP	195	240	275	95	310	355	290
LOSTINE near Lostine	APR-SEP	93	107	116	100	125	139	116
PINE CREEK near Oxbow	FEB-JUL	116	151	175	84	198	233	208
	APR-JUL	76	104	123	83	142	170	148
POWDER near Sumpster (2)	APR-JUL	30	42	50	86	58	70	58
	APR-SEP	30	43	51	86	59	72	59
EF WALLOWA near Joseph	FEB-SEP	8.6	10.1	11.2	90	12.3	13.8	12.5
WALLOWA at Joseph (2)	APR-JUL	55	62	67	105	72	79	64
WOLF CK RESERVOIR inflow	MAR-JUN	9.5	12.7	14.9	92	17.1	20	16.2

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

BURNT, POWDER, PINE, GRANDE RONDE AND IMNAHA BASINS
Watershed Snowpack Analysis - January 1, 2004

Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
PHILLIPS LAKE	73.5	5.5	5.0	38.4	Grande Ronde ab LaGrande	6	178	114
THIEF VALLEY	17.4	5.0	6.4	15.5	Powder River	9	157	106
UNITY	25.2	5.2	5.5	10.6	Wallowa, Imnaha, Catherine	5	106	91
WALLOWA LAKE		NO REPORT			Burnt River	5	161	122
WOLF CREEK	10.4	2.1	1.3	3.1				

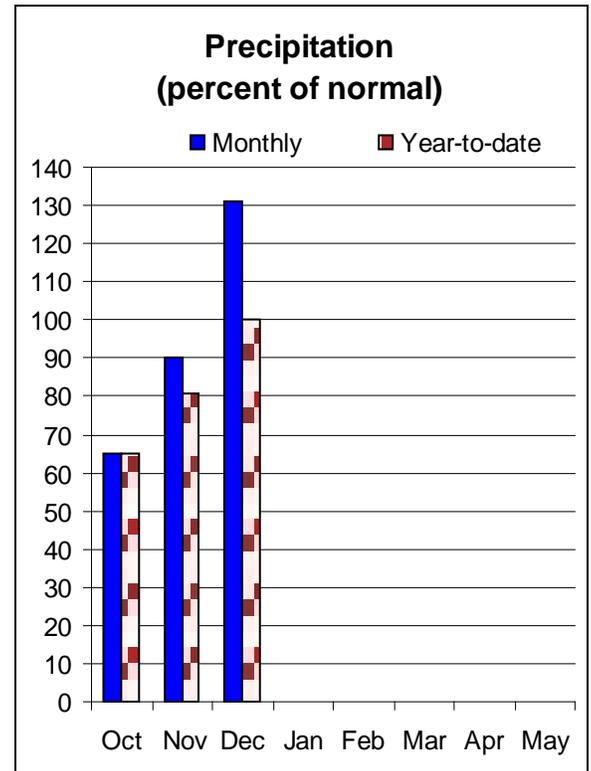
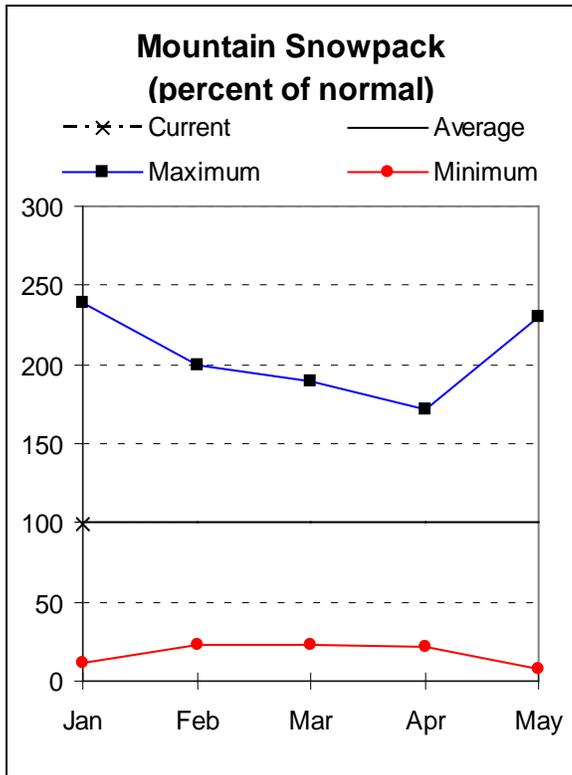
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UMATILLA, WALLA WALLA, WILLOW ROCK, AND LOWER JOHN DAY BASINS

January 1, 2004



Water Supply Outlook

The snowpack in the river basins draining the western slopes of the Blue Mountains of Oregon was 99 percent of average as of January 1, the lowest percentage in the state. December precipitation was 131 percent of average. Since the start of the water year on October 1, the total precipitation has been 100 percent of average. The water stored in the irrigation reservoirs was 40 percent of average at the end of December. The streamflow forecasts for the coming spring and summer are between 112 percent of average on Butter Creek and 95 percent of average on the South Fork of the Walla Walla. Adequate water supplies should be available for water users this season.

For more information contact your local
Natural Resources Conservation Service Office
Pendleton - (541) 278-8049; Heppner - (541) 676-5021; Condon - (541) 384-2671

UMATILLA, WALLA WALLA, WILLOW, ROCK AND LOWER JOHN DAY BASINS
Streamflow Forecasts - January 1, 2004

Forecast Point	Forecast Period	<<===== Drier =====>>		Future Conditions		===== Wetter =====>>		30-Yr Avg. (1000AF)
		90%	70%	Chance Of Exceeding *		30%	10%	
		(1000AF)	(1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	(1000AF)	(1000AF)	
BUTTER CK nr Pine City	MAR-JUL	13.2	15.6	17.3	112	19.0	21	15.5
COUSE CREEK near Milton-Freewater	FEB-JUL	5.40	7.00	8.10	110	9.20	10.80	7.40
	APR-JUL	2.00	3.10	3.80	95	4.50	5.60	4.00
MCKAY near Pilot Rock	APR-SEP	22	32	39	108	46	56	36
PINE CREEK near Weston	FEB-JUL	4.80	6.20	7.10	101	8.00	9.40	7.00
	APR-JUL	2.00	2.70	3.20	107	3.70	4.40	3.00
RHEA CREEK near Heppner	FEB-JUL	7.9	10.9	13.0	96	15.1	18.1	13.6
ROCK CREEK above Whyte	FEB-JUL	16.9	29	37	106	45	57	35
UMATILLA near Gibbon	MAR-SEP	81	97	109	103	121	137	106
	APR-JUL	46	62	73	100	84	100	73
	APR-SEP	52	68	79	100	90	106	79
UMATILLA at Pendleton	MAR-SEP	172	215	240	104	265	310	230
	APR-JUL	96	132	157	103	181	216	152
	APR-SEP	101	137	162	103	185	225	157
SF WALLA WALLA near Milton-Freewater	MAR-SEP	63	71	77	95	83	91	81
	APR-SEP	51	59	64	96	69	77	67
WILLOW CREEK LAKE INFLOW	FEB-JUL	5.7	9.3	11.8	98	14.3	17.9	12.1
	APR-JUL	2.90	5.30	6.90	102	8.50	10.90	6.80

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 December					Watershed Snowpack Analysis - January 1, 2004			
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	5.0	2.5	14.3	Walla Walla River	3	191	106
MCKAY	73.8	10.0	5.5	23.6	Umatilla River	7	167	106
WILLOW CREEK	1.8	0.0	0.0	---	McKay Creek	4	135	89

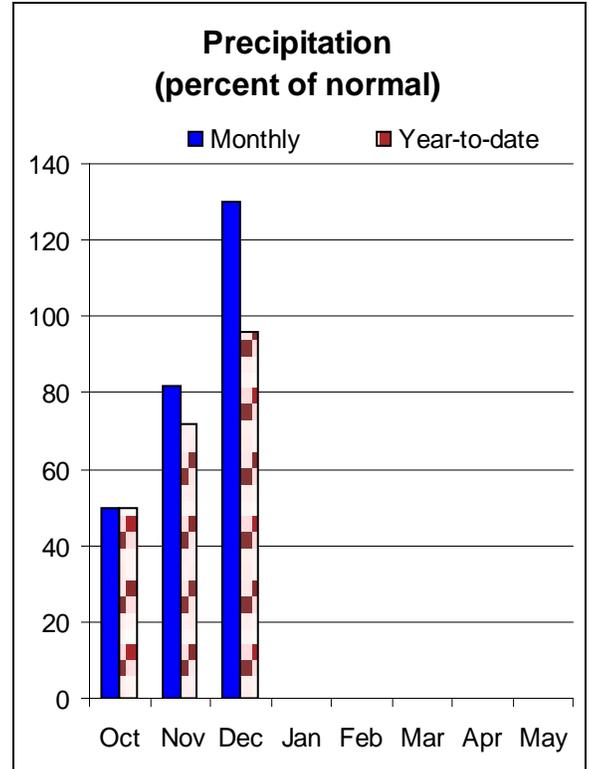
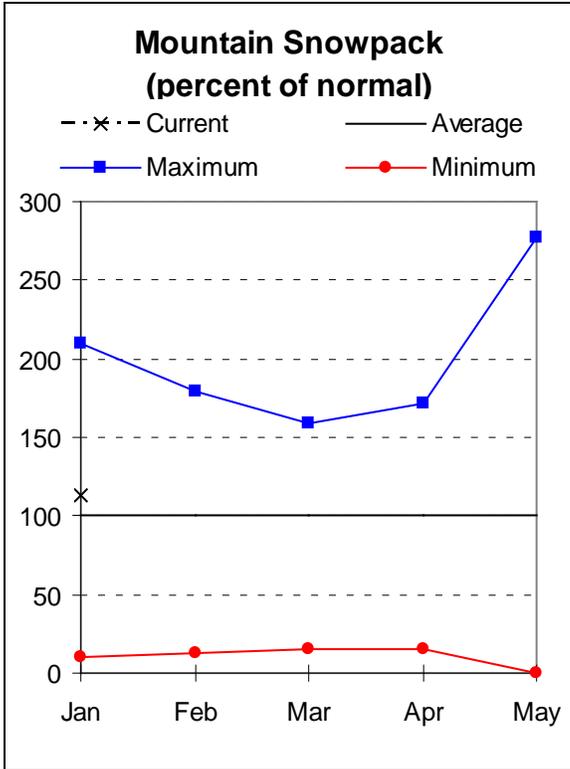
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UPPER JOHN DAY BASIN

January 1, 2004



Water Supply Outlook

The mountain snowpack was 113 percent of average as of January 1 in the Basin. December precipitation was 130 percent of average. This amount brings the total precipitation since the start of the water year to 96 percent of average. The streamflow forecasts for the coming spring and summer months are between 114 percent of average on Mountain Creek and 93 percent of average on the North Fork of the John Day. Adequate water supplies are expected for users in the basin this year.

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

UPPER JOHN DAY BASIN
Streamflow Forecasts - January 1, 2004

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		<<===== Drier =====>>		=====		===== Wetter =====>>		
		90% (1000AF)	70% (1000AF)	Chance Of Exceeding * 50% (Most Probable) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
CAMAS CREEK nr Ukiah	MAR-JUL	39	48	54	104	60	69	52
MF JOHN DAY at Ritter	MAR-JUL	97	129	150	94	171	202	159
	APR-SEP	76	102	120	94	138	164	128
NF JOHN DAY at Monument	MAR-JUL	470	635	750	95	865	1030	790
	APR-SEP	355	480	570	93	660	785	615
MOUNTAIN CREEK near Mitchell	FEB-JUL	4.00	6.40	8.00	114	9.60	12.00	7.00
STRAWBERRY CREEK nr Prairie City	MAR-JUL	5.50	7.00	8.00	108	9.00	10.50	7.40
	APR-SEP	5.80	7.30	8.40	104	9.50	11.00	8.10

UPPER JOHN DAY BASIN Reservoir Storage (1000 AF) - End of December					UPPER JOHN DAY BASIN Watershed Snowpack Analysis - January 1, 2004			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
					John Day, North Fork	8	151	104
					John Day above Dayville	4	165	117

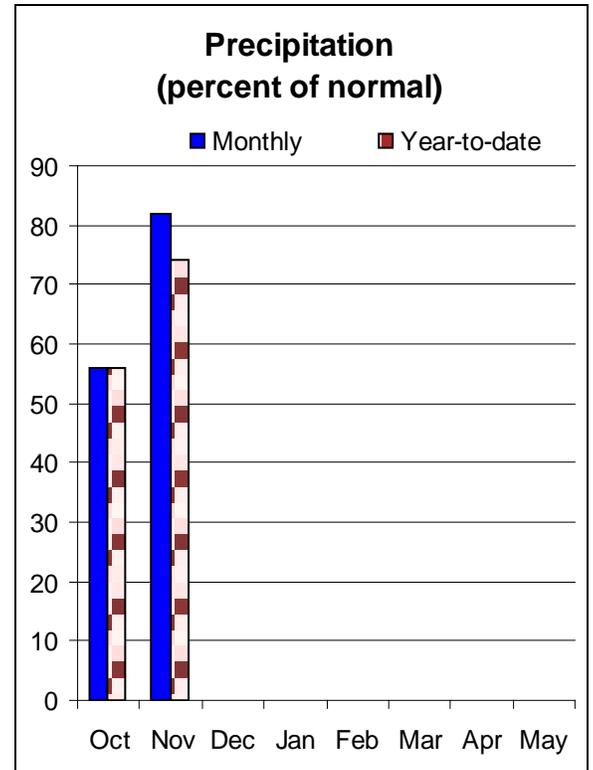
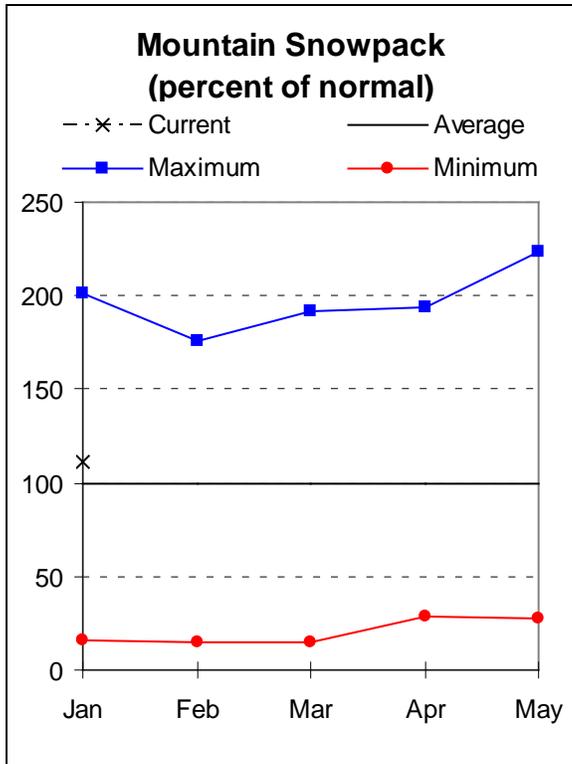
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UPPER DESCHUTES AND CROOKED BASINS

January 1, 2004



Water Supply Outlook

The snowpack in the mountains of the Basin was 111 percent of average as of January 1. December precipitation was 124 percent of average. This brings the total precipitation since October 1, to 95 percent of average. Water stored in the irrigation reservoirs at the end of December was 81 percent of average, the highest percentage in the state. The streamflow forecasts for the coming spring and summer are between 130 percent of average on the North Fork of the Crooked River and 76 percent of average on Crescent Creek. Adequate water supplies should be available for most water users this season.

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

UPPER DESCHUTES AND CROOKED BASINS
Streamflow Forecasts - January 1, 2004

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		Drier		Wetter				
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	30% (1000AF)	10% (1000AF)	Chance Of Exceeding * (% AVG.)	
BEAVER CREEK near Paulina	APR-SEP	16.3	23	28	104	33	40	27
	FEB-JUL	49	61	70	105	79	91	67
CRANE PRAIRIE RESERVOIR INFLOW	APR-JUL	42	51	57	98	63	72	58
	APR-SEP	65	80	90	99	100	115	91
	FEB-JUL	55	67	75	97	83	95	77
	FEB-SEP	78	95	107	97	119	136	110
CRESCENT CREEK near Crescent	APR-JUL	3.8	8.7	12.0	76	15.3	20	15.8
	APR-SEP	5.0	11.0	15.0	77	19.0	25	19.6
	FEB-JUL	7.2	13.1	17.0	81	21	27	21
	FEB-SEP	8.2	15.2	20	80	25	32	25
DESCHUTES at Benham Falls	APR-JUL	275	300	320	94	340	365	340
	APR-SEP	425	460	485	93	510	545	520
	FEB-JUL	420	455	480	99	505	540	485
	FEB-SEP	585	630	660	99	690	735	665
DESCHUTES below Snow Creek	APR-JUL	17.5	23	26	84	29	34	31
	APR-SEP	30	41	49	89	57	68	55
	FEB-JUL	26	32	36	84	40	46	43
	FEB-SEP	40	52	60	90	68	80	67
LITTLE DESCHUTES near La Pine	APR-JUL	36	54	67	94	80	98	71
	APR-SEP	40	61	75	94	89	110	80
	FEB-JUL	58	80	95	94	110	132	101
	FEB-SEP	63	87	103	94	119	143	110
NF CROOKED blw Lookout Ck	FEB-JUL			19.0	130			14.6
OCHOCO RESERVOIR INFLOW	APR-JUL	8.0	17.0	23	105	29	38	22
	APR-SEP	7.7	17.0	23	105	29	38	22
	FEB-JUL	20	35	45	105	55	70	43
	FEB-SEP	20	35	45	105	55	70	43
PRINEVILLE RESERVOIR INFLOW	APR-JUL	44	78	109	100	147	218	109
	APR-SEP	35	80	110	100	140	185	110
	FEB-JUL	101	181	235	107	290	370	220
	FEB-SEP	101	181	235	107	290	370	220
SQUAW CREEK near Sisters	APR-JUL	27	30	33	94	36	39	35
	APR-SEP	36	41	44	96	47	52	46
TUMALO CREEK near Bend	APR-JUL	26	31	34	100	37	42	34
	APR-SEP	32	38	42	102	46	52	41
WICKIUP RESERVOIR INFLOW	APR-JUL	157	165	171	103	177	185	166
	APR-SEP	250	265	275	98	285	300	280
	FEB-JUL	199	210	220	96	230	240	230
	FEB-SEP	305	325	335	99	345	365	340

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	31.3	31.6	36.7
CRESCENT LAKE	86.9	31.9	41.3	47.5
OCHOCO	47.5	13.8	9.7	18.1
PRINEVILLE	153.0	80.4	68.0	85.3
WICKIUP	200.0	109.7	119.7	142.2

UPPER DESCHUTES AND CROOKED BASINS
Watershed Snowpack Analysis - January 1, 2004

Watershed	Number of Data Sites	This Year as % of	
		Last Yr	Average
Crooked, Ochoco	4	131	129
Deschutes above Wickiup	3	141	128
Little Deschutes	4	114	118
Tumalo and Squaw Creeks	4	106	98

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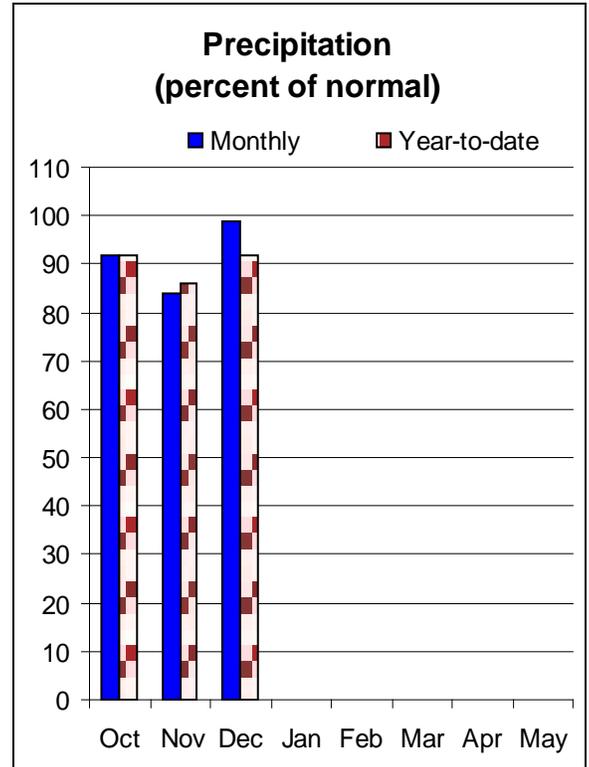
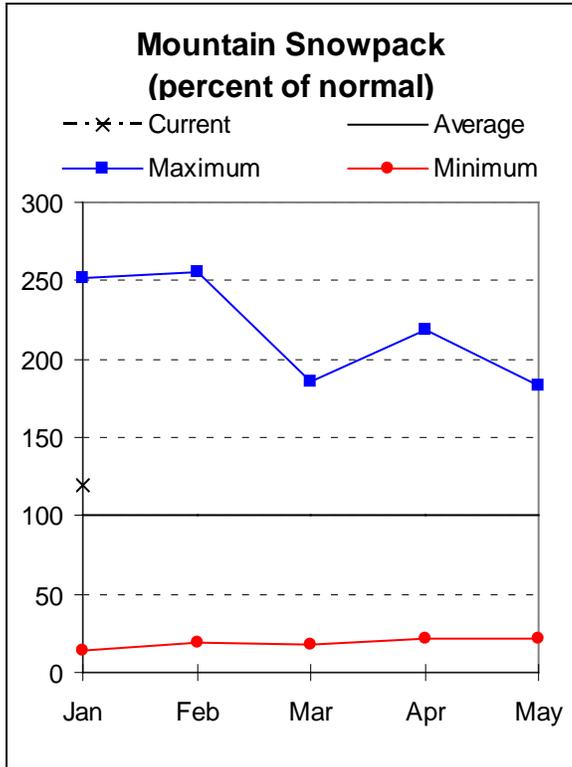
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HOOD, MILE CREEKS, AND LOWER DESCHUTES BASINS

January 1, 2004



Water Supply Outlook

Snowpacks in the river basins draining the northern slopes of Mt. Hood were 120 percent of average as of January 1. December precipitation was 99 percent of average, the lowest percentage in the state. Since the start of the water year on October 1, the total precipitation was 92 percent of average. The streamflow forecasts for the April through September period are between 106 percent of average on the White River and 96 percent of average on both the Hood and West Fork of the Hood River. Adequate water supplies should be available for users this season.

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

HOOD, MILE CREEKS AND LOWER DESCHUTES BASINS
Streamflow Forecasts - January 1, 2004

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		<<==== Drier =====		===== 50% (Most Probable) (1000AF) (% AVG.)		===== Wetter =====>>		
		90% (1000AF)	70% (1000AF)	30% (1000AF)	10% (1000AF)			
HOOD at Tucker Bridge	APR-JUL	168	199	220	97	241	272	228
	APR-SEP	202	237	260	96	283	318	271
WF HOOD near Dee	APR-JUL	85	103	116	96	129	147	121
	APR-SEP	102	121	135	96	149	168	141
WHITE below Tygh Valley	APR-JUL	83	103	117	106	131	151	110
	APR-SEP	97	119	133	106	147	169	125

HOOD, MILE CREEKS AND LOWER DESCHUTES BASINS Reservoir Storage (1000 AF) - End of December					HOOD, MILE CREEKS AND LOWER DESCHUTES BASINS Watershed Snowpack Analysis - January 1, 2004			
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)		NO REPORT			Hood River	6	242	114
					Mile Creeks	0	0	0
					White River	3	214	102

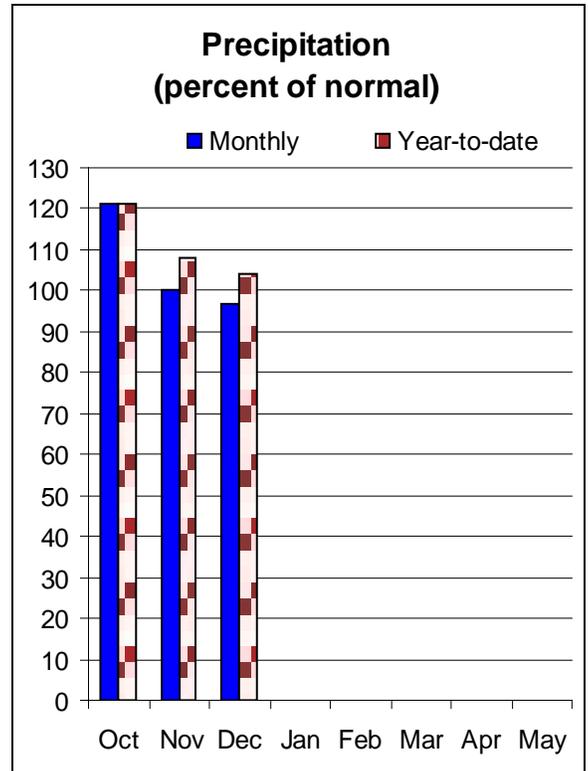
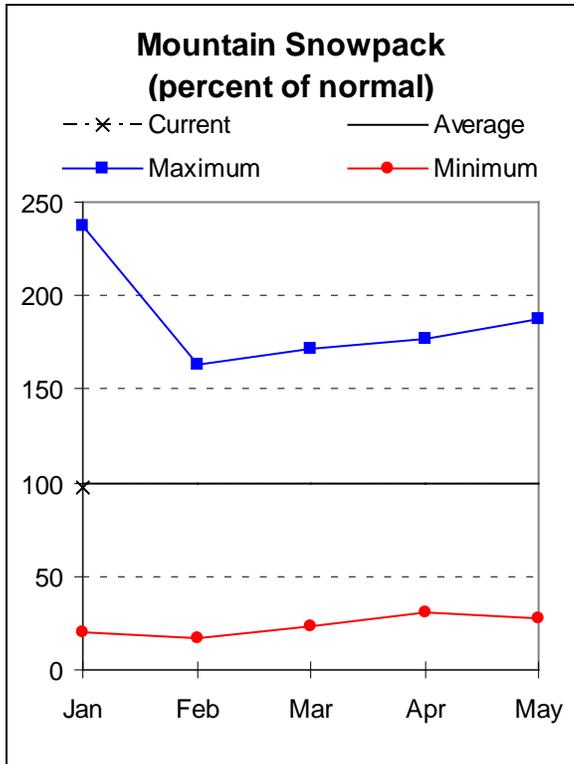
* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

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.

LOWER COLUMBIA BASIN

January 1, 2004



Water Supply Outlook

The snowpack in the Sandy River drainage was 120 percent of average as of January 1. Precipitation for the month of December was 97 percent of average, bringing the total since the start of the water year to 93 percent of average. The streamflow forecasts for the April through September period on the Sandy River are 103 percent of average. In the entire Columbia River basin above The Dalles, the snowpack on January 1 was 97 percent of average. The December precipitation was also 97 bringing the total since the start of the water year 104 percent of average. Adequate water supplies should be available for most users.

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

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LOWER COLUMBIA BASIN
Streamflow Forecasts - January 1, 2004

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Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		<<===== Drier =====>>		===== Wetter =====>>				
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	Chance Of Exceeding * (% AVG.)	30% (1000AF)	10% (1000AF)	
COLUMBIA R. at The Dalles (2)	APR-JUL	56232	71158	81300	96	91440	106370	84650
	APR-SEP	71324	85004	94300	96	103600	117280	98650
SANDY near Marmot	APR-JUL	236	289	325	104	361	414	313
	APR-SEP	281	337	375	103	413	469	363

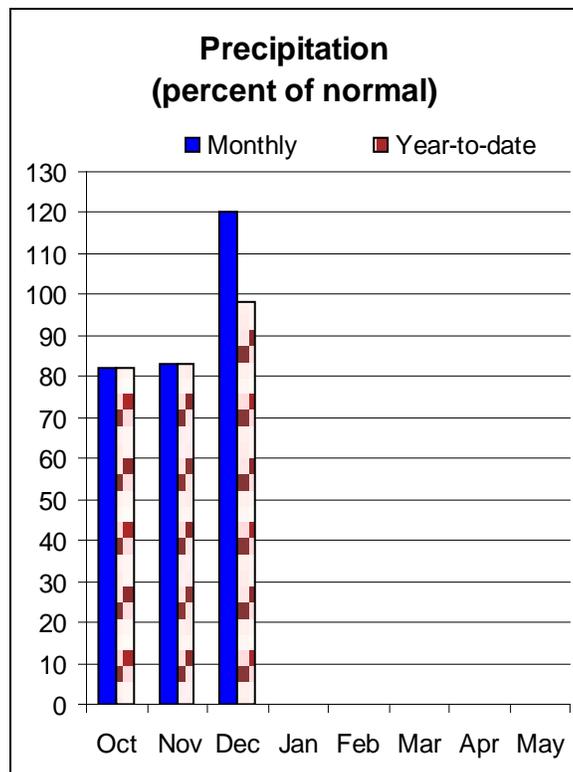
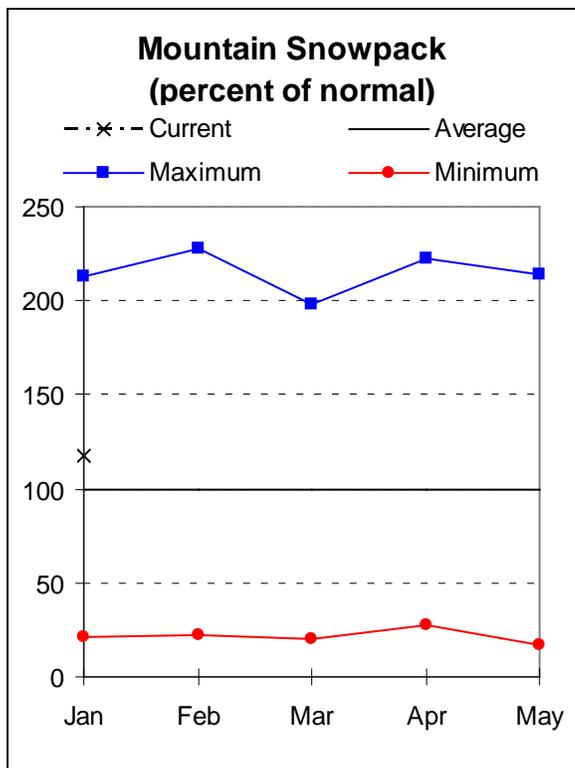
LOWER COLUMBIA BASIN Reservoir Storage (1000 AF) - End of December					LOWER COLUMBIA BASIN Watershed Snowpack Analysis - January 1, 2004			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
					Sandy River	5	248	125

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

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

WILLAMETTE BASIN

January, 1 2004



Water Supply Outlook

The snowpack in the mountains surrounding the Willamette Basin was 118 percent of average as of January 1. December precipitation was 120 percent of average, bringing the total since October 1, to 98 percent of average. Water stored in Timothy and Henry Hagg reservoirs was 98 percent of average at the end of December. The streamflow forecasts for the coming February through May period are between 104 percent of average for the inflow into Cougar Reservoir and 98 percent of average for the inflow into Cottage Grove Reservoir. Adequate water supplies should be available for water users this year.

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

WILLAMETTE BASIN
Streamflow Forecasts - January 1, 2004

Forecast Point	Forecast Period	Future Conditions					30-Yr Avg. (1000AF)
		<<==== Drier =====		===== Chance Of Exceeding * 50% (Most Probable) (1000AF) (% AVG.)		===== Wetter =====>>	
		90% (1000AF)	70% (1000AF)	50% (1000AF)	10% (1000AF)	10% (1000AF)	
BLUE RIVER LAKE INFLOW (1,2)	FEB-MAY	100	145	165	101	185	163
	APR-SEP	51	77	89	104	101	86
CLACKAMAS at Estacada (2)	APR-JUL	488	590	660	103	730	640
	APR-SEP	588	697	770	103	843	748
CLACKAMAS above Three Lynx (2)	APR-JUL	370	442	490	103	538	474
	APR-SEP	451	528	580	103	632	562
COTTAGE GROVE LAKE INFLOW (1,2)	FEB-MAY	43	72	85	98	98	87
	APR-SEP	15.2	35	44	102	53	43
COUGAR LAKE INFLOW (1,2)	FEB-MAY	197	264	295	104	326	285
	APR-SEP	168	217	240	104	263	230
DETROIT LAKE INFLOW (1,2)	FEB-MAY	487	668	750	101	832	744
	APR-JUL	342	475	535	101	595	528
	APR-SEP	422	562	625	102	688	616
DORENA LAKE INFLOW (1,2)	FEB-MAY	142	223	260	102	297	255
	APR-SEP	40	98	125	103	152	122
FALL CREEK LAKE INFLOW (1,2)	FEB-MAY	113	173	200	102	227	197
FERN RIDGE LAKE INFLOW (1,2)	FEB-MAY	76	147	180	100	213	180
	APR-SEP	1.6	13.2	27	100	41	27
FOSTER LAKE INFLOW (1,2)	FEB-MAY	546	776	880	100	984	878
	APR-JUL	260	425	500	102	575	490
	APR-SEP	294	460	535	102	610	527
GREEN PETER LAKE INFLOW (1,2)	FEB-MAY	381	542	615	102	688	604
	APR-JUL	163	271	320	98	369	327
	APR-SEP	190	297	345	98	393	354
HILLS CREEK LAKE INFLOW (1,2)	FEB-MAY	226	339	390	101	441	388
	APR-JUL	165	244	280	101	316	277
	JUN-OCT	102	142	160	98	178	164
	APR-SEP	206	288	325	102	362	320
LITTLE NORTH SANTIAM (1)	APR-JUL	72	116	136	102	156	133
	APR-SEP	80	125	146	102	167	143
LOOKOUT POINT LAKE INFLOW (1,2)	FEB-MAY	620	899	1025	100	1151	1025
	APR-JUL	425	635	730	101	825	726
	JUN-OCT	246	352	400	100	448	402
	APR-SEP	529	739	835	101	931	828
McKENZIE below Trail Bridge (2)	APR-JUL	212	241	260	98	279	266
	APR-SEP	331	366	390	97	414	404
McKENZIE near Vida (1,2)	APR-JUL	723	913	1000	102	1087	977
	APR-SEP	939	1139	1230	102	1321	1201
MOHAWK near Springfield	JAN-JUL	178	230	265	99	300	268
OAK GROVE FORK above Power Intake	APR-JUL	105	123	135	104	147	130
	APR-SEP	141	161	175	105	189	167
NORTH SANTIAM at Mehama (1,2)	APR-JUL	479	672	760	104	848	732
	APR-SEP	548	749	840	101	931	834
SOUTH SANTIAM at Waterloo (2)	APR-JUL	351	476	560	102	644	549
	APR-SEP	392	516	600	102	684	587
SCOGGINS CREEK near Gaston (2)	FEB-JUL	31	40	47	109	54	43
THOMAS CREEK near Scio	JAN-JUL	164	205	233	100	261	233
MF WILLAMETTE below NF (1,2)	FEB-MAY	607	877	1000	103	1123	973
	JUN-OCT	277	368	410	105	452	391
	APR-JUL	428	619	705	101	791	698
	APR-SEP	508	709	800	100	891	798
WILLAMETTE at Salem (1,2)	FEB-MAY	5112	7112	8020	102	8928	7837
	APR-JUL	2727	3898	4430	102	4962	4347
	APR-SEP	3290	4432	4950	103	5468	4804

WILLAMETTE BASIN Reservoir Storage (1000 AF) - End of December					WILLAMETTE BASIN Watershed Snowpack Analysis - January 1, 2004			
Reservoir	Usable Capacity	*** Usable Storage This Year	*** Usable Storage Last Year	*** Avg	Watershed	Number of Data Sites	This Year as % of Last Yr Average	
BLUE RIVER **	85.5	0.1	1.2	4.5	Clackamas River	4	191	116
COTTAGE GROVE **	29.8	0.1	3.0	2.8	McKenzie River	4	180	122
COUGAR **	155.2	0.0	0.0	72.6	Row River	1	143	97
DETROIT **	300.7	5.6	17.4	66.2	Santiam River	6	175	128
DORENA **	70.5	1.1	9.2	10.3	Willamette, Middle Fork	6	162	123
FALL CREEK **	115.5	0.2	2.8	4.3				
FERN RIDGE **	109.6	11.3	18.1	11.6				
FOSTER **	29.7	0.7	0.6	4.1				
GREEN PETER **	268.2	4.0	20.3	92.5				
HILLS CREEK **	200.2	10.1	24.4	63.5				
LOOKOUT POINT **	337.0	7.0	21.2	38.2				
TIMOTHY LAKE		NO REPORT						
HENRY HAGG LAKE		NO REPORT						

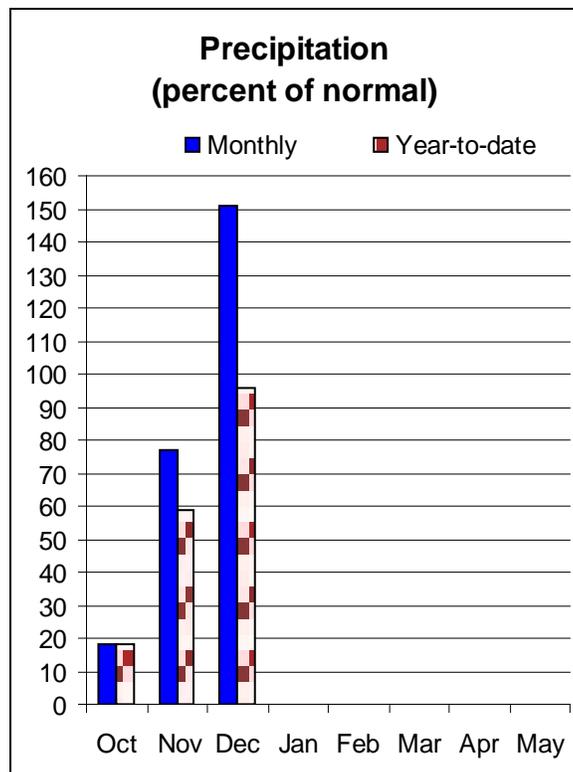
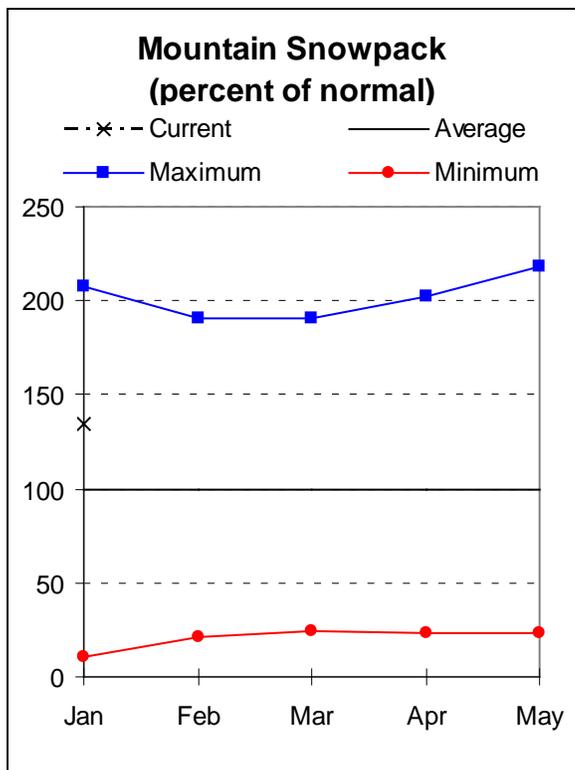
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The average is computed for the 1971-2000 base period.

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

ROGUE AND UMPQUA BASINS

January 1, 2004



Water Supply Outlook

The snowpack in the Rogue and Umpqua Basins was 135 percent of average as of January 1. December precipitation was 151 percent of average, bringing the total since the start of the water year to 96 percent of average. Water stored in the major irrigation reservoirs of the basin was 73 percent of average at the end of December. The streamflow forecasts for the coming April through July period are between 107 percent of average for the inflow into Applegate Reservoir and 89 percent of average on the Illinois River. Adequate water supplies should be available for water users this season.

For more information contact your local
 Natural Resources Conservation Service Office
 Roseburg - (541) 673-8316; Medford - (541) 776-4267

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ROGUE AND UMPQUA BASINS
Streamflow Forecasts - January 1, 2004

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Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *		Chance Of Exceeding *		Chance Of Exceeding *		
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
APPLEGATE LAKE Net Inflow (2)	APR-JUL	66	98	120	107	142	174	112
	APR-SEP	72	105	127	107	149	182	119
	FEB-JUL	119	176	215	105	254	311	205
	FEB-SEP	128	186	226	105	266	324	215
SF BIG BUTTE CK nr Butte Falls	APR-JUL	22	28	33	97	38	44	34
CLEARWATER above Trap Creek (2)	APR-SEP	46	56	63	94	70	80	67
COW CREEK near Azalea	FEB-JUL	19.6	32	40	95	48	60	42
	APR-JUL	6.7	11.6	15.0	91	18.4	23	16.5
	APR-SEP	7.5	12.6	16.0	90	19.4	25	17.7
FOURMILE LAKE net Inflow (2)	APR-JUL	3.66	4.82	5.60	97	6.38	7.54	5.80
	APR-SEP	4.76	5.92	6.70	94	7.48	8.64	7.10
GRAVE CREEK at Pease Bridge	JAN-JUL	17.5	25	30	100	35	43	30
HYATT PRAIRIE RES net Inflow (2)	APR-JUL	2.27	3.66	4.60	96	5.54	6.93	4.80
ILLINOIS R near Kerby	APR-JUL	80	128	160	89	192	240	179
	APR-SEP	85	133	165	89	197	245	186
NF LITTLE BUTTE CK nr Lakecreek (2)	APR-SEP	7.8	10.9	13.0	97	15.1	18.2	13.4
SF LITTLE BUTTE CK nr Lakecreek (2)	APR-SEP	17.3	25	30	94	35	43	32
LOST CREEK LAKE INFLOW (2)	APR-JUL	408	481	530	100	579	652	530
	APR-SEP	527	609	665	100	721	803	665
	FEB-JUL	666	764	830	101	896	994	825
	FEB-SEP	791	898	970	101	1042	1149	960
RED BLANKET CK nr Prospect	APR-JUL	24	30	34	100	38	44	34
ROGUE above Prospect	APR-JUL	168	205	230	94	255	292	245
	APR-SEP	216	257	285	95	313	354	300
SF ROGUE near Prospect (2)	APR-JUL	36	46	53	91	60	71	58
	APR-SEP	41	54	62	89	70	83	70
ROGUE R at Raygold (2)	APR-JUL	504	639	730	100	821	956	730
	APR-SEP	637	788	890	100	992	1143	890
ROGUE R at Grants Pass (2)	APR-JUL	491	639	740	100	841	989	740
	APR-SEP	618	777	885	100	993	1152	885
SUCKER CK blw Little Grayback	APR-JUL	27	41	51	98	61	75	52
	APR-SEP	32	46	56	100	66	80	56
NORTH UMPQUA nr Toketee Falls (2)	APR-SEP	106	129	144	95	159	182	151
NORTH UMPQUA at Winchester	APR-JUL	513	657	755	95	853	997	795
SOUTH UMPQUA near Brockway	APR-JUL	147	280	370	93	460	593	400
SOUTH UMPQUA at Tiller	APR-JUL	101	151	185	96	219	269	193
	APR-SEP	113	164	198	97	232	283	205

ROGUE AND UMPQUA BASINS Reservoir Storage (1000 AF) - End of December					ROGUE AND UMPQUA BASINS Watershed Snowpack Analysis - January 1, 2004			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
APPLEGATE	75.2	0.0	1.2	11.1	Applegate River	2	54	117
EMIGRANT LAKE	39.0	16.7	20.8	17.6	Bear Creek	2	69	123
FISH LAKE	8.0	3.0	3.3	5.2	Butte Creek	6	107	121
FOURMILE LAKE	16.1	2.0	1.2	8.0	Illinois River	1	50	145
HOWARD PRAIRIE	60.0	24.8	18.1	37.7	North Umpqua River	8	144	130
HYATT PRAIRIE	16.1	10.0	6.2	9.4	Rogue River	17	105	130
LOST CREEK **	315.0	0.3	1.0	136.3				

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

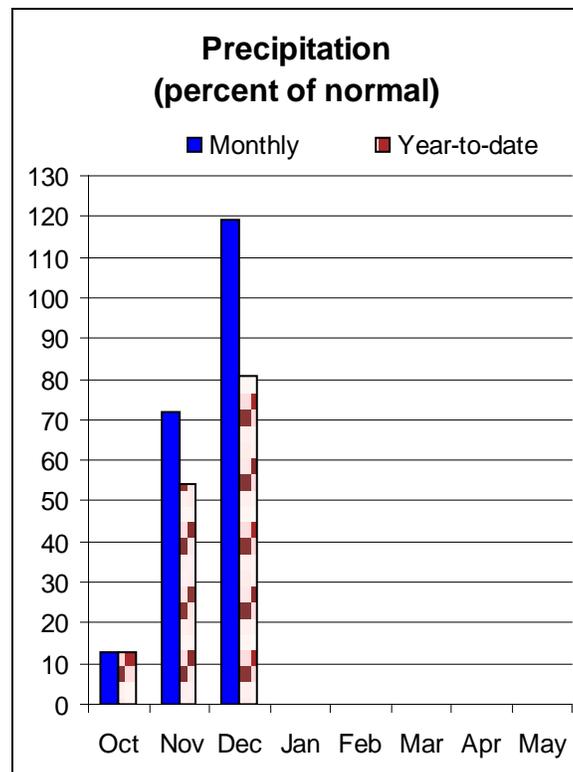
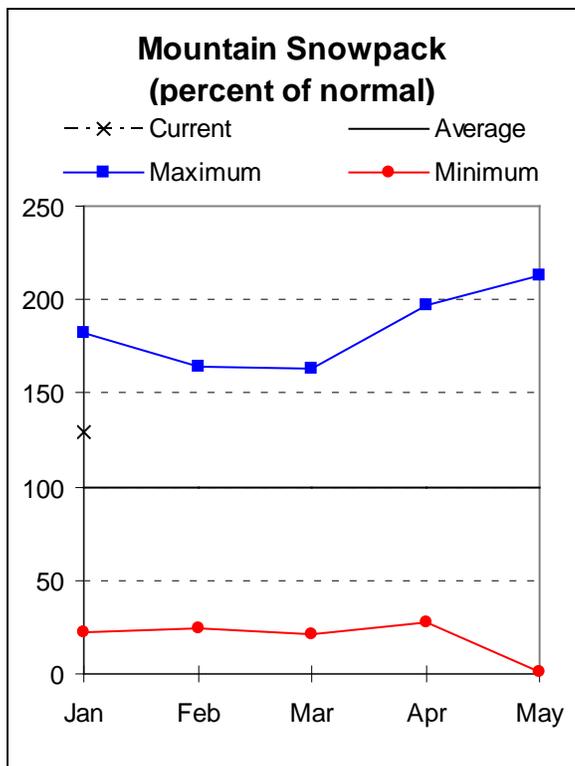
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(2) - The value is natural volume - actual volume may be affected by upstream water management.

KLAMATH BASIN

January 1, 2004



Water Supply Outlook

Snowpack in the mountains of the Klamath Basin was 129 percent of average as of January 1. December precipitation was 119 percent, bringing the total since the start of the water year to 81 percent, the lowest percentage in the state. Water stored in the 3 major irrigation reservoirs in the basin was 53 percent of average at the end of December. Reservoir storage last year at the same time was 67 percent of average. The streamflow forecasts for the February through July period are between 81 percent of average for the inflow into Clear Lake and on the Williamson and 70 percent of average for the inflow into Gerber Reservoir. Careful water management will be required to ensure adequate water supplies for users.

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

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KLAMATH BASIN
Streamflow Forecasts - January 1, 2004

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Forecast Point	Forecast Period	Future Conditions <<===== Drier =====>> <===== Wetter =====>>						30-Yr Avg. (1000AF)
		Chance Of Exceeding *		30%		10%		
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	(% AVG.)	(1000AF)	(1000AF)	
CLEAR LK Net Inflow (2)	FEB-JUL	28	62	85	81	108	142	105
GERBER RESERVOIR net Inflow (2)	FEB-JUL	12.3	25	33	70	41	54	47
SPRAGUE R nr Chiloquin	FEB-JUL	115	192	245	75	298	375	325
	APR-SEP	59	125	170	74	215	281	230
UPPER KLAMATH LK net Inflow (1)	FEB-JUL	236	493	610	78	727	984	780
	APR-SEP	135	317	400	78	483	665	515
WILLIAMSON R nr Chiloquin	FEB-JUL	225	341	420	81	499	615	520
	APR-SEP	151	246	310	81	374	469	385

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

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KLAMATH BASIN
Watershed Snowpack Analysis - January 1, 2004

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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	64.2	97.0	189.3	Lost River	3	152	107
GERBER	94.3	15.4	15.7	41.8	Sprague River	3	89	102
UPPER KLAMATH LAKE	523.7	211.0	254.6	313.9	Upper Klamath Lake	10	135	130
					Williamson River	5	154	134

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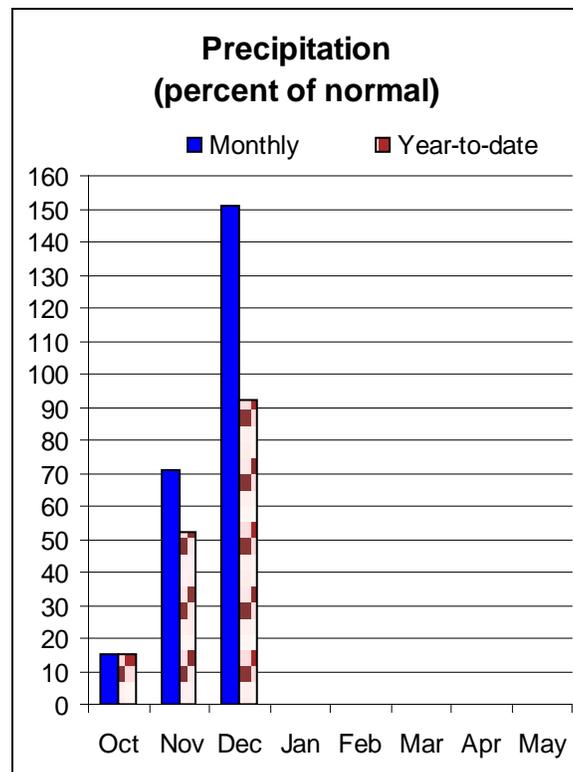
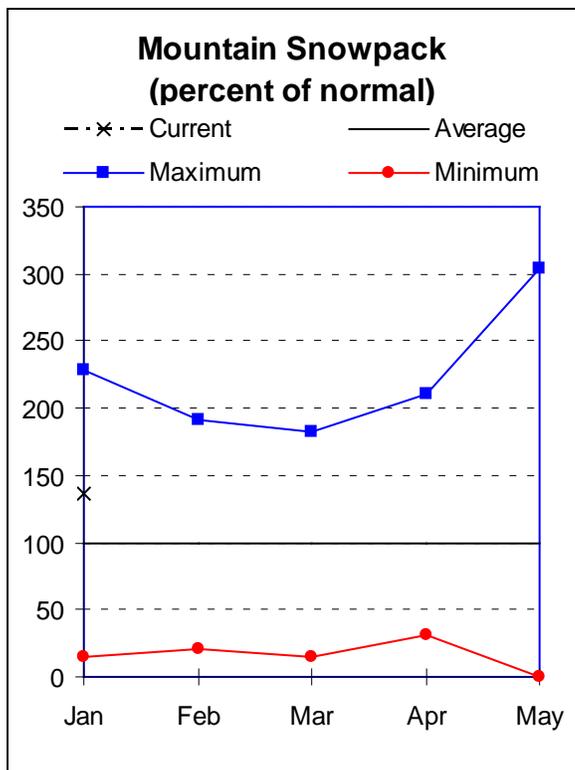
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 (2) - The value is natural volume - actual volume may be affected by upstream water management.

LAKE COUNTY AND GOOSE LAKE

January 1, 2004



Water Supply Outlook

The snowpack was 136 percent of average as of January 1, the highest percentage in the state. December precipitation was 151 percent of average, bringing the total since October 1, the start of the water year to 92 percent of average. Water stored in the major irrigation reservoirs of the basin was 50 percent of average at the end of December. The streamflow forecasts for the coming March through July period are between 83 percent of average on Deep Creek and 64 percent of average for the inflow into Drews Reservoir. Careful water management will be necessary to ensure adequate water supplies this season.

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

LAKE COUNTY AND GOOSE LAKE BASINS
Streamflow Forecasts - January 1, 2004

Forecast Point	Forecast Period	Future Conditions					30-Yr Avg. (1000AF)	
		<<===== Drier =====>>		===== Wetter =====>				
		90% (1000AF)	70% (1000AF)	50% (Most Probable) (1000AF)	Chance Of Exceeding * (% AVG.)	30% (1000AF)	10% (1000AF)	
BRIDGE CK nr Spahr Ranch	APR-JUL	0.30	1.55	2.40	75	3.25	4.50	3.20
CHEWAUCAN R nr Paisley	MAR-JUL	28	48	62	70	76	96	89
COTTONWOOD CK nr Lakeview (2)	MAR-JUL	3.7	6.3	8.0	76	9.7	12.3	10.6
DEEP CK abv Adel	MAR-JUL	44	59	70	83	81	96	84
DREWS RESERVOIR net Inflow (2)	MAR-JUL	1.9	14.5	23	64	32	44	36
HONEY CK nr Plush	MAR-JUL	2.5	8.8	13.0	65	17.2	24	20
SILVER CK nr Silver Lk	MAR-JUL	3.1	9.6	14.0	71	18.4	25	19.7
TWENTYMILE CK nr Adel	MAR-JUL	0.8	13.4	23	82	33	6.4	28

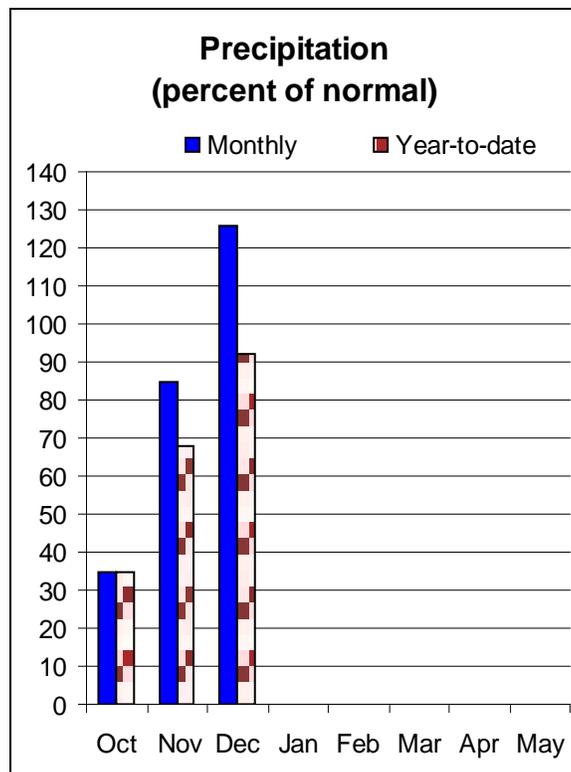
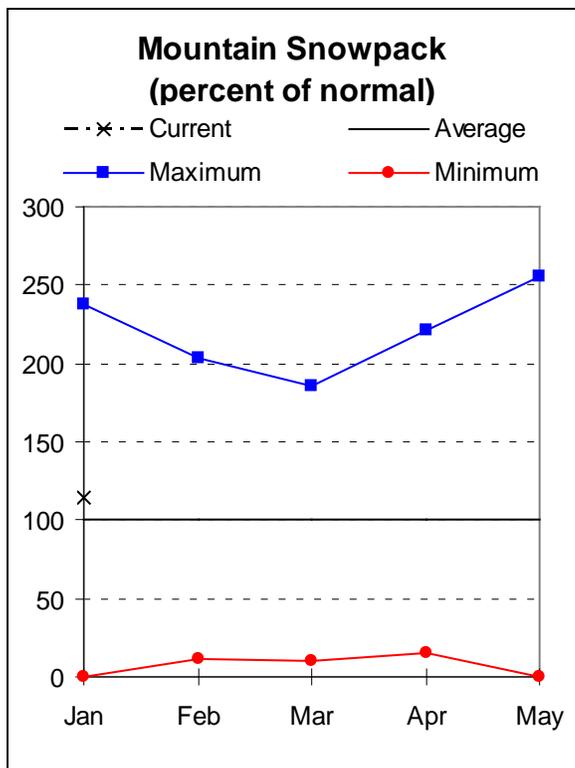
LAKE COUNTY AND GOOSE LAKE BASINS Reservoir Storage (1000 AF) - End of December					LAKE COUNTY AND GOOSE LAKE BASINS Watershed Snowpack Analysis - January 1, 2004			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
COTTONWOOD	8.7	6.2	3.5	2.3	Chewaucan River	2	92	97
DREWS	63.0	11.3	7.8	28.9	Deep Creek	1	180	145
THOMPSON VALLEY		NO REPORT			Drew Creek	2	139	102
					Honey Creek	0	0	0
					Silver Creek (Lake Co.)	3	84	107
					Twentymile Creek	1	180	145

* 90%, 70%, 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.

HARNEY BASIN

January 1, 2004



Water Supply Outlook

The snowpack in the mountains of the Harney Basin was 114 percent of average as of January 1. December precipitation was 126 percent of average, bringing the total since the start of the water year on October 1 to 92 percent of average. The streamflow forecasts for the coming spring and summer months are between 87 percent of average on Silver Creek and 74 percent of average on the Donner und Blitzen. Careful water management techniques will be necessary to ensure adequate water supplies in the basin this season.

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

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HARNEY BASIN
Streamflow Forecasts - January 1, 2004

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Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		<<===== Drier =====>>		=====		>>===== Wetter =====<<		
		90% (1000AF)	70% (1000AF)	Chance Of Exceeding * 50% (Most Probable) (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
DONNER und BLITZEN R nr Frenchglen	MAR-JUL	24	44	57	76	70	90	75
	APR-SEP	22	40	52	74	64	82	70
SILVER CK nr Riley	FEB-JUL	18.0	23	26	87	29	34	30
SILVIES R nr Burns	MAR-JUL	36	76	103	80	130	170	129
	APR-SEP	25	58	80	81	102	135	99
TROUT CK nr Denio	MAR-JUL	1.8	6.0	8.9	80	11.8	16.0	11.1
	APR-SEP	1.9	5.8	8.4	82	11.0	14.9	10.3

HARNEY BASIN Reservoir Storage (1000 AF) - End of December					HARNEY BASIN Watershed Snowpack Analysis - January 1, 2004			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
					Donner und Blitzen River	2	214	118
					Silver Creek (Harney Co)	2	221	121
					Silvies River	5	146	114
					Trout Creek	1	170	106

* 90%, 70%, 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.