

# **GENERAL OUTLOOK**

**April 1, 2005**

## **SUMMARY**

The month of March started out warm and dry, with above normal temperatures and below normal precipitation throughout Oregon. Snowpacks were rapidly melting and drought conditions looking all but certain by March 15 when a cool, moist weather pattern finally hit the state. The return to seasonal weather patterns has brought some temporary relief from the dry conditions with mid and upper elevation snowpacks showing slight gains from March 15 to April 1. The showers of late March have brought slight improvements to the water supply outlook in the state.

Reservoirs throughout the state have increased their water storage. The return of rainy conditions has increased soil moisture in time for some crops to derive benefit. Observed streamflows had reached near record lows by March 15. The March 16-19 storm included some rain-on-snow which brought some streams up to near record flows. The effects of the abnormally dry winter months will not be easily overcome by some cool damp weather.

In recognition of the state water supply conditions, the Oregon governor's office issued drought declarations for Baker and Klamath counties on March 8. On March 29, the Oregon Drought Council met to consider requests from six Oregon counties for state drought declarations. After a report from the Water Availability Committee on water conditions, the Council agreed to forward the six requests to the governor's office with a recommendation that the governor make the declarations. The six counties are Crook, Gilliam, Hood River, Sherman, Umatilla and Morrow. Ironically, it was pouring rain in Salem during the Drought Council meeting. It is anticipated that additional counties will request drought declarations in the coming weeks.

Water supplies are expected to be limited within most of the basins in the state this summer. The State of Oregon, Department of Water Resources has compiled water conservation resources for all water users (residential, industrial and agricultural) that may be of interest.

Visit the Oregon Department of Water Resources web page at:  
<http://www.wrd.state.or.us/OWRD/WR/drought.shtml#Overview>

Additionally, Governor Kulongoski's office is providing a weekly update of drought conditions at:  
[http://Governor.oregon.Gov/Gov/fd/main\\_drought\\_fire.shtml](http://Governor.oregon.Gov/Gov/fd/main_drought_fire.shtml)

## **SNOWPACK**

The snowpack in the state was melting steadily during the first half of March. Record low snowpacks were recorded at many Oregon SNOTEL sites. On March 16, a storm front moved into the region and provided some welcome cool, moist air to slow the melt. Snowpacks began to rebuild at mid and upper elevations throughout the state and brought a 12% increase in snow water from March 16-April 1. At the end of March, snow water was still far short of average conditions.

Only the southeastern portion of the state had April 1 snowpacks greater than 60% of average. The Owyhee/Malheur and Lake County/Goose Lake basins began the month with snow packs of 72 and

73 percent of average, respectively. In the rest of the state, the April 1 snowpack amounts averaged between 26 percent of average in the Hood River, Miles Creeks and Lower Deschutes basin to 56 percent of average in the Harney basin. Snowpack conditions for the water year have set new record lows at many sites in the northern half of the state. Streams, reservoirs and water users that derive their water mainly from snowmelt can expect deficit conditions this summer.

## PRECIPITATION

The precipitation graph for Oregon SNOTEL sites in March shows nearly a flat line from March 1 through March 16. By April 1, the month precipitation for March had nearly caught up to normal at SNOTEL sites throughout the state. North Fork SNOTEL in the Sandy River (Lower Columbia basin) reported 15.5 inches of precipitation for the later half of March. While Oregon experienced a couple of weeks in March with average rainfall conditions, the water year precipitation totals are still well below normal. Water year precipitation ranges from 56 percent of normal in the Lower Columbia, Hood River basin to 83 percent of normal in the Owyhee.

## RESERVOIRS

The end of March precipitation brought much needed streamflow to reservoirs throughout the state however, some reservoirs may not refill this year. Spring rains will determine how much reservoir recovery will occur. The onset of cooler, moist weather has delayed irrigation needs in some areas of the state, reducing demand on stored water.

At the end of March, the 27 major irrigation reservoirs in the state held 1,131,300 acre-feet of water. This represents 72 percent of average and 49 percent of capacity. Timely and adequate spring rainfall could alleviate some water supply needs, but it is expected that summer water supplies will be limited for many users throughout the state.

## STREAMFLOW

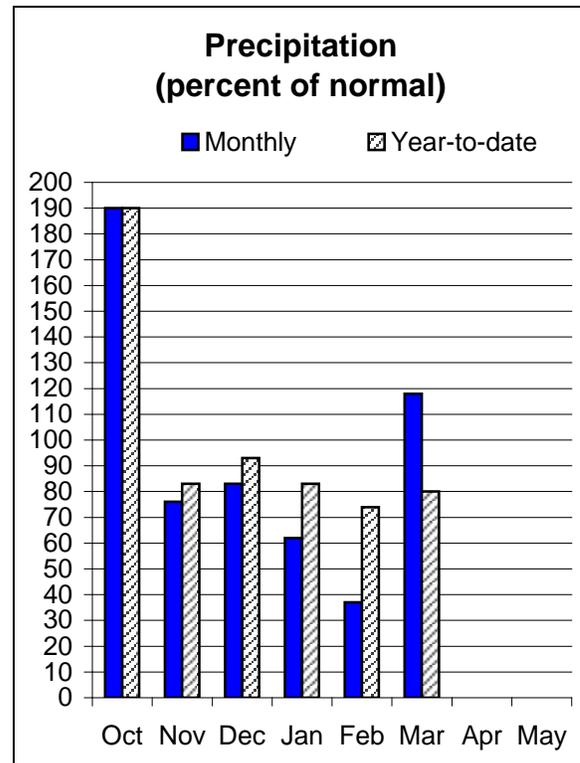
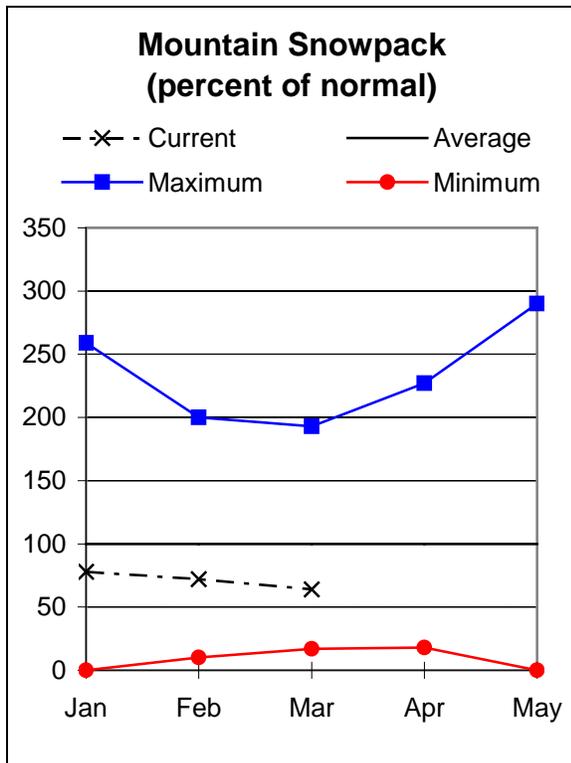
Streamflow forecasts throughout the state are projected to be much lower than normal this coming summer. The following table summarizes the range of conditions forecast:

| STREAM                      | PERIOD  | PERCENT OF AVERAGE |
|-----------------------------|---------|--------------------|
| Owyhee Net Inflow           | Apr-Jul | 53                 |
| Grande Ronde at La Grande   | Apr-Sep | 41                 |
| Umatilla at Pendleton       | Apr-Sep | 46                 |
| Deschutes at Benham Falls   | Apr-Sep | 73                 |
| Willamette MF nr Oakridge   | Apr-Sep | 59                 |
| Rogue at Raygold            | Apr-Sep | 55                 |
| Upper Klamath L. Net Inflow | Apr-Sep | 42                 |
| Silvies nr Burns            | Apr-Sep | 46                 |

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 NRCS and the National Weather Service (NWS) 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 NWS and other cooperators.

# OWYHEE AND MALHEUR BASINS

April 1, 2005



## Water Supply Outlook

The late March storms brought some relief to the Owyhee and Malheur basins. SNOTEL sites in the basin received from 1 to 5 inches of precipitation in the last 2 weeks of the month. March total precipitation was 118 percent of average. The precipitation in the Owyhee Malheur since the beginning of the water year is 82 percent of average.

The April 1 snowpack measured at aerial markers, snow courses and SNOTEL sites in the Owyhee and Malheur basins was 72 percent of average, the best in the state. Local water supply conditions however have been steadily deteriorating since the beginning of January.

Reservoirs in the basin saw an increase in water storage this month and as of April 1 are storing 46 percent of average. On the Malheur near Drewsey, the April through September streamflow is forecast to be 29 percent of average. The Bully Creek reservoir inflow is forecast to be 30 percent of average. April through September inflow to Owyhee Reservoir is forecast to be 52 percent of average. Most water users in the basin can expect deficits this coming season.

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

OWYHEE AND MALHEUR BASINS  
Streamflow Forecasts - April 1, 2005

| Forecast Point             | Forecast Period | <<===== Drier ===== Future Conditions ===== Wetter =====>> |      |                 |    |  |      | 30-Yr Avg.<br>(1000AF) |                 |  |                 |  |
|----------------------------|-----------------|--|------|-----------------|----|--|------|------------------------|-----------------|--|-----------------|--|
|                            |                 | 90%<br>(1000AF)  |      | 70%<br>(1000AF) |    | 50% (Most Probable)<br>(1000AF) (% AVG.) |      |                        | 30%<br>(1000AF) |  | 10%<br>(1000AF) |  |
|                            |                 |  |      |                 |    |  |      |                        |                 |  |                 |  |
| MALHEUR near Drewsey       | APR-JUL         | 10.5   | 16.8 | 22              | 30 | 28                                       | 38   | 74                     |                 |  |                 |  |
|                            | APR-SEP         | 10.5   | 16.9 | 22              | 29 | 28                                       | 38   | 76                     |                 |  |                 |  |
| NF MALHEUR at Beulah       | APR-JUL         | 12.5   | 16.4 | 19.3            | 32 | 23                                       | 28   | 60                     |                 |  |                 |  |
| OWYHEE RESV INFLOW (2)     | APR-JUL         | 124  | 172  | 210             | 53 | 251                                      | 319  | 400                    |                 |  |                 |  |
|                            | APR-SEP         | 136  | 186  | 225             | 52 | 267                                      | 337  | 430                    |                 |  |                 |  |
| OWYHEE near Rome           | APR-JUL         | 112  | 162  | 200             | 53 | 243                                      | 313  | 380                    |                 |  |                 |  |
| SUCCOR CK nr Jordan Valley | APR-JUL         | 3.4  | 4.0  | 4.5             | 37 | 7.1                                      | 10.9 | 12.1                   |                 |  |                 |  |

| OWYHEE AND MALHEUR BASINS<br>Reservoir Storage (1000 AF) - End of March |                 |                        |           |       | OWYHEE AND MALHEUR BASINS<br>Watershed Snowpack Analysis - April 1, 2005 |                      |                   |         |
|---|-----------------|------------------------|-----------|-------|--|----------------------|-------------------|---------|
| 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            | 33.3                   | 42.0      | 47.2  | Owyhee River   | 20                   | 97                | 69      |
| BULLY CREEK   | 30.0            | 28.6                   | 30.2      | 24.1  | Malheur  | 9                    | 69                | 46      |
| OWYHEE  | 715.0           | 251.0                  | 387.2     | 593.0 | Jordan Creek   | 2                    | 69                | 60      |
| WARMSPRINGS   | 191.0           | 55.2                   | 79.2      | 133.5 | Bully Creek  | 2                    | 0                 | 0       |

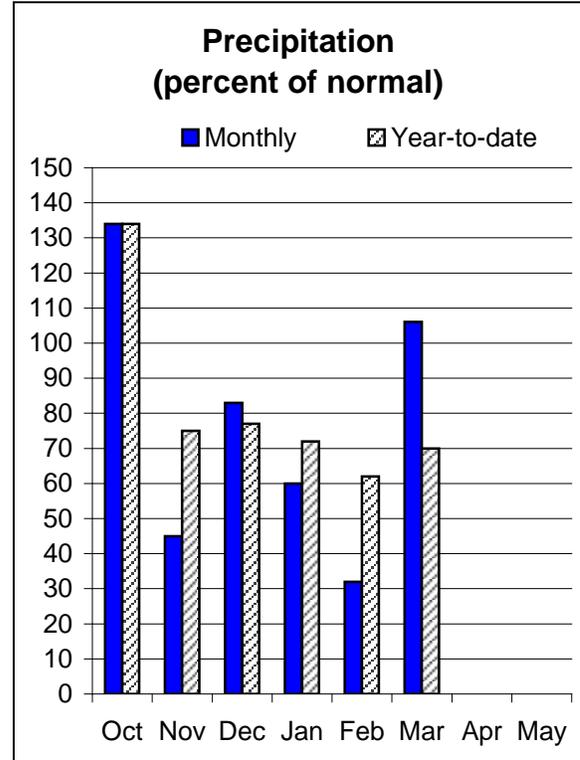
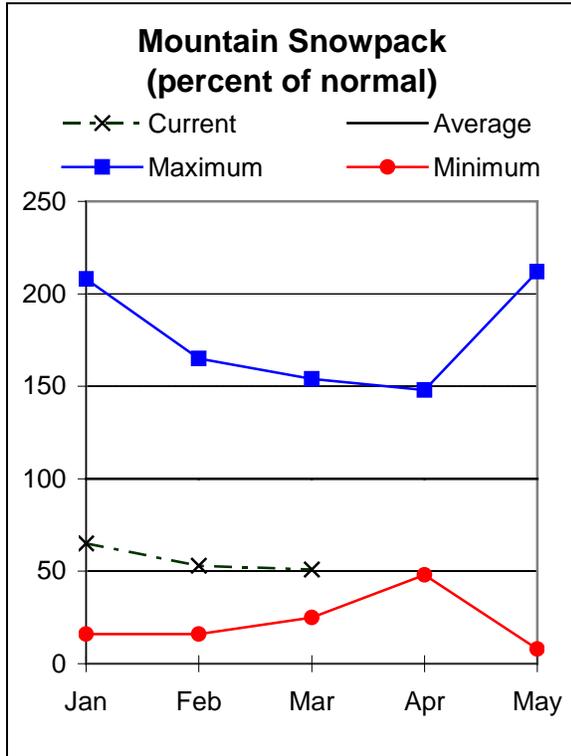
\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

- (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.

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# BURNT, POWDER, GRAND RONDE, AND IMNAHA BASINS

April 1, 2005



## Water Supply Outlook

While the Burnt, Power, Pine, Grande Ronde and Innaha received near normal precipitation in March, it did little to ameliorate the effects of an exceptionally dry water year. Water year to date precipitation is only 70 percent of normal. Snowpacks showed significant melt early in the month at all but the higher elevation sites. April 1 snow water was only 53 percent of normal.

As of April 1, Phillips Lake, Thief Valley and Unity reservoirs held 58 percent of average storage, an increase from last month. Summer streamflows are forecast to be 48-67 percent of average. The April through September streamflow for the Grande Ronde at LaGrande is forecast to be 41 percent of average. For Hurricane Creek near Joseph, the April through September streamflow is forecast to be 67 percent of average. In recognition of water supply conditions, a drought declaration has been authorized for Baker County. Water users throughout the area can expect limited supplies this coming summer.

*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 - April 1, 2005

| Forecast Point                    | Forecast Period | Future Conditions     |                 |                                 |                                   |                 | 30-Yr Avg.<br>(1000AF) |      |
|-----------------------------------|-----------------|-----------------------|-----------------|---------------------------------|-----------------------------------|-----------------|------------------------|------|
|                                   |                 | <<===== Drier =====>> |                 | ===== Wetter =====>             |                                   |                 |                        |      |
|                                   |                 | 90%<br>(1000AF)       | 70%<br>(1000AF) | 50% (Most Probable)<br>(1000AF) | Chance Of Exceeding *<br>(% AVG.) | 30%<br>(1000AF) | 10%<br>(1000AF)        |      |
| ANTHONY CK bl NF nr North Powder  | APR-JUL         | 1.6                   | 4.3             | 6.2                             | 38                                | 8.1             | 10.8                   | 16.2 |
| BEAR CREEK near Wallowa           | APR-SEP         | 18.6                  | 29              | 36                              | 55                                | 43              | 53                     | 65   |
| BIG CK bl Burn Ck nr Medical Spgs | APR-JUL         | 0.9                   | 2.7             | 3.9                             | 33                                | 5.1             | 6.9                    | 11.9 |
| BURNT near Hereford (2)           | APR-JUL         | 13.1                  | 14.8            | 15.9                            | 43                                | 19.9            | 27                     | 37   |
|                                   | APR-SEP         | 13.6                  | 15.5            | 16.8                            | 43                                | 22              | 29                     | 39   |
| CATHERINE CREEK near Union        | APR-SEP         | 23                    | 30              | 35                              | 53                                | 40              | 47                     | 66   |
| DEER CK nr Sumpster               | APR-JUL         | 4.6                   | 5.3             | 5.8                             | 38                                | 7.9             | 10.9                   | 15.4 |
| EAGLE CREEK abv Skull Creek       | APR-JUL         | 55                    | 71              | 82                              | 51                                | 93              | 109                    | 161  |
|                                   | APR-SEP         | 61                    | 78              | 90                              | 51                                | 102             | 119                    | 176  |
| GRANDE RONDE at La Grande         | APR-JUL         | 29                    | 56              | 75                              | 41                                | 94              | 121                    | 182  |
|                                   | APR-SEP         | 30                    | 58              | 77                              | 41                                | 96              | 124                    | 188  |
| HURRICANE CREEK near Joseph       | APR-SEP         | 24                    | 26              | 28                              | 67                                | 30              | 32                     | 42   |
| IMNAHA at Imnaha                  | APR-SEP         | 87                    | 123             | 147                             | 50                                | 171             | 208                    | 295  |
| LOSTINE near Lostine              | APR-SEP         | 52                    | 60              | 66                              | 55                                | 72              | 80                     | 121  |
| PINE CREEK near Oxbow             | APR-JUL         | 31                    | 48              | 60                              | 41                                | 72              | 89                     | 148  |
| POWDER near Sumpster (2)          | APR-JUL         | 14.0                  | 20              | 25                              | 43                                | 30              | 36                     | 58   |
|                                   | APR-SEP         | 14.0                  | 21              | 26                              | 44                                | 31              | 38                     | 59   |
| EF WALLOWA near Joseph            | APR-SEP         | 5.1                   | 5.9             | 6.5                             | 59                                | 7.1             | 7.9                    | 11.1 |
| WALLOWA at Joseph (2)             | APR-JUL         | 35                    | 40              | 43                              | 67                                | 46              | 51                     | 64   |
| WOLF CK RESERVOIR inflow          | APR-JUN         | 3.3                   | 4.5             | 5.3                             | 36                                | 7.5             | 10.8                   | 14.8 |

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

BURNT, POWDER, PINE, GRANDE RONDE AND IMNAHA BASINS  
Watershed Snowpack Analysis - April 1, 2005

| 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            | 21.3                   | 23.6      | 50.8 | Grande Ronde ab LaGrande   | 5                    | 39                | 31      |
| THIEF VALLEY  | 17.4            | 13.4                   | 13.4      | 17.9 | Powder River               | 10                   | 57                | 52      |
| UNITY         | 25.2            | 17.5                   | 24.1      | 21.1 | Wallowa, Imnaha, Catherine | 11                   | 64                | 58      |
| WALLOWA LAKE  |                 | NO REPORT              |           |      | Burnt River                | 6                    | 59                | 48      |
| WOLF CREEK    | 10.4            | 5.4                    | ---       | 5.8  |                            |                      |                   |         |

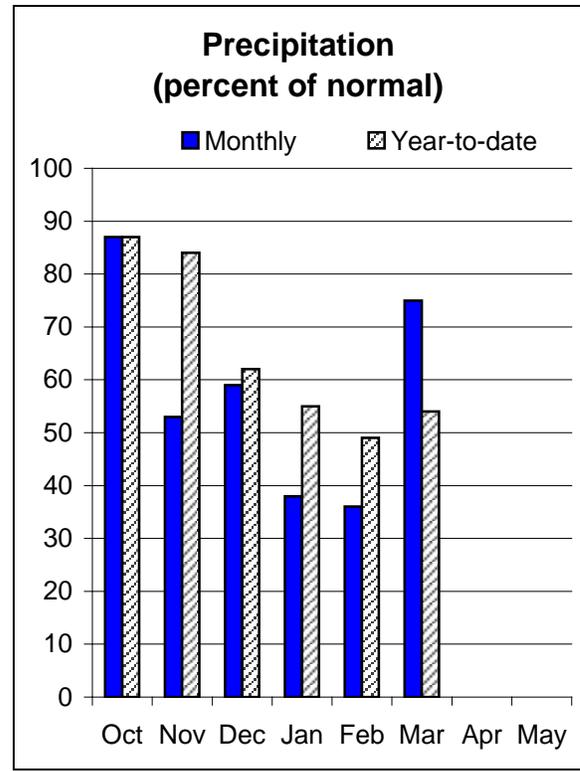
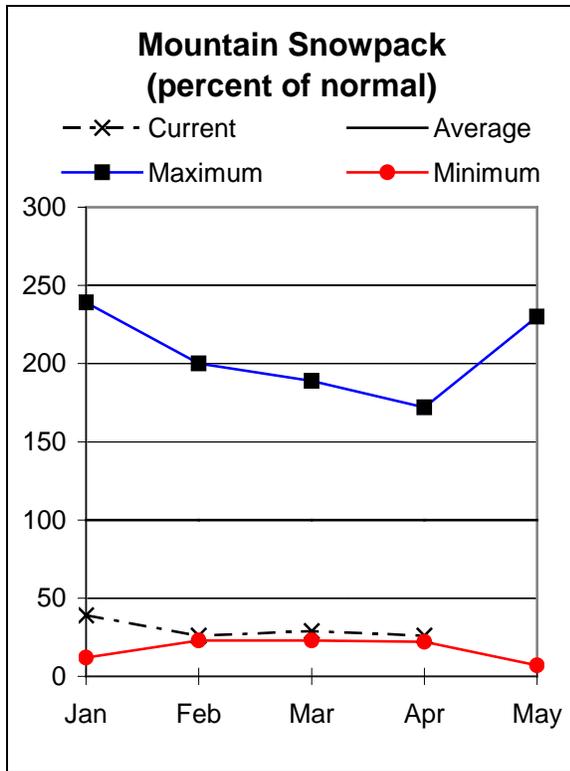
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(2) - The value is natural flow - actual flow may be affected by upstream water management.

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

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

April 1, 2005



## Water Supply Outlook

The Umatilla, Willow, Rock and Lower John Day had one of the poorest April 1 snowpacks in the state with only 26 percent of normal snow water. March precipitation was 75 percent of normal and could not make up for the exceptionally dry preceding months. Precipitation for the water year is now only 54 percent of normal.

Combined reservoir storage at Cold Springs and McKay has increased since last month and as of April 1 is 46 percent of average. The lowest streamflow forecast for these basins is McKay near Pilot rock for the April through September period at 38 percent of average. The South Fork Walla Walla near Milton-Freewater is forecast to flow at 70 percent of average during the April through September period. Drought status has been requested by Gilliam, Sherman, Umatilla and Morrow counties.

*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 - April 1, 2005

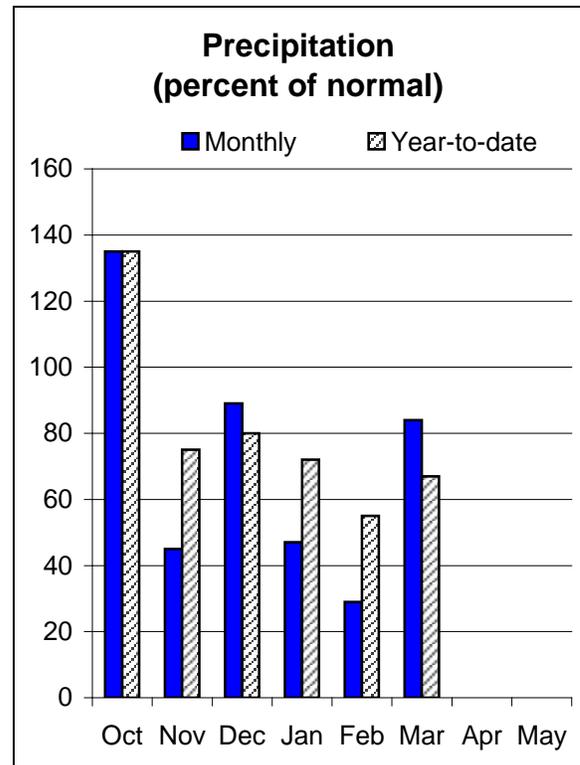
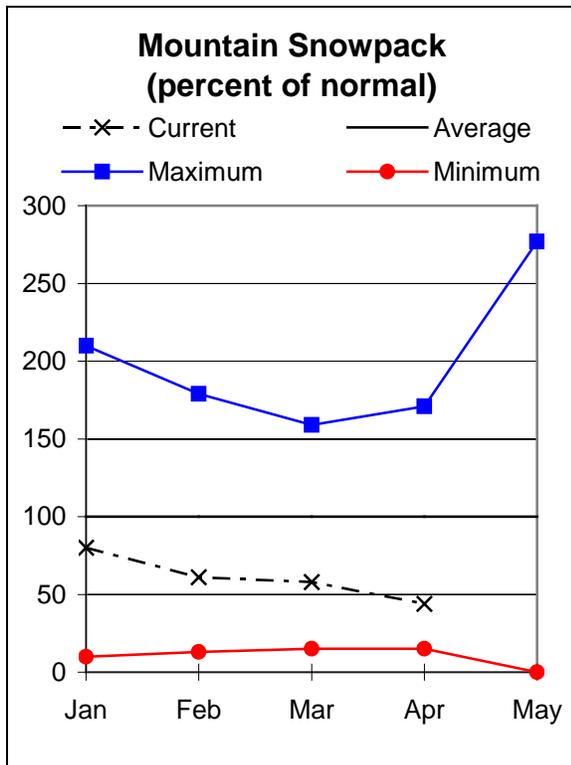
| Forecast Point                       | Forecast Period | <<===== Drier ===== Future Conditions ===== Wetter =====>> |                 |   |    |                 | 30-Yr Avg.<br>(1000AF) |                 |
|--------------------------------------|-----------------|--|-----------------|---|----|-----------------|------------------------|-----------------|
|                                      |                 | 90%<br>(1000AF)  | 70%<br>(1000AF) | Chance Of Exceeding *<br>50% (Most Probable)<br>(1000AF) (% AVG.) |    | 30%<br>(1000AF) |                        | 10%<br>(1000AF) |
| BUTTER CK nr Pine City               | APR-JUL         | 2.72   | 3.78            | 4.50  | 48 | 6.00            | 8.20                   | 9.40            |
| COUSE CREEK near Milton-Freewater    | APR-JUL         | 0.77   | 1.15            | 1.40  | 35 | 1.65            | 2.03                   | 4.00            |
| MCKAY near Pilot Rock                | APR-SEP         | 4.9  | 8.1             | 10.2  | 38 | 15.9            | 24                     | 27              |
| PINE CREEK near Weston               | APR-JUL         | 0.94   | 1.21            | 1.40  | 47 | 1.59            | 1.86                   | 3.00            |
| RHEA CREEK near Heppner              | APR-JUL         | 1.80   | 2.60            | 3.20  | 53 | 3.80            | 4.60                   | 6.10            |
| ROCK CREEK above Whyte               | APR-JUL         | 1.6  | 4.0             | 5.6   | 46 | 9.1             | 14.3                   | 12.1            |
| UMATILLA near Gibbon                 | APR-JUL         | 20   | 32              | 40  | 55 | 48              | 60                     | 73              |
|                                      | APR-SEP         | 23   | 35              | 43  | 54 | 51              | 63                     | 79              |
| UMATILLA at Pendleton                | APR-JUL         | 20   | 48              | 68  | 46 | 88              | 116                    | 149             |
|                                      | APR-SEP         | 20   | 50              | 71  | 46 | 92              | 122                    | 155             |
| SF WALLA WALLA near Milton-Freewater | APR-SEP         | 38   | 43              | 47  | 70 | 51              | 56                     | 67              |
| WILLOW CREEK LAKE INFLOW             | APR-JUL         | 1.99   | 3.19            | 4.00  | 57 | 5.40            | 7.60                   | 7.00            |

| UMATILLA, WALLA WALLA, WILLOW, ROCK AND LOWER JOHN DAY BASINS |                 |                        |           |      | UMATILLA, WALLA WALLA, WILLOW, ROCK AND LOWER JOHN DAY BASINS |                      |                   |         |
|---|-----------------|------------------------|-----------|------|---|----------------------|-------------------|---------|
| Reservoir Storage (1000 AF) - End of March                    |                 |                        |           |      | Watershed Snowpack Analysis - April 1, 2005                   |                      |                   |         |
| 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            | 17.8                   | 33.5      | 40.1 | Walla Walla River   | 3                    | 30                | 31      |
| MCKAY   | 73.8            | 26.3                   | 65.3      | 56.6 | Umatilla River  | 7                    | 30                | 27      |
| WILLOW CREEK  | 1.8             | 0.4                    | 1.2       | ---  | McKay Creek   | 4                    | 8                 | 3       |

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# UPPER JOHN DAY BASIN

April 1, 2005



## Water Supply Outlook

April 1 snowpacks in the Upper John Day are less than half of normal for this time of year. Snow accumulation at SNOTEL sites and snow courses was 44 percent of average on April 1. March total precipitation was lower than normal as well at 84 percent of average. The Upper John Day has had an abnormally dry water year and has received only 67 percent of its normal precipitation since October 1.

Observed streamflows were half of normal for most of March but recovered to near normal following end of month storms. Water users in the Upper John Day should expect reduced supplies this summer and begin to plan accordingly.

UPPER JOHN DAY BASIN  
Streamflow Forecasts - April 1, 2005

| Forecast Point                   | Forecast Period | Future Conditions |                 |                                 |                                   |                 | 30-Yr Avg.<br>(1000AF) |      |
|----------------------------------|-----------------|-------------------|-----------------|---------------------------------|-----------------------------------|-----------------|------------------------|------|
|                                  |                 | <<==== Drier ==== |                 | ==== Wetter =====>              |                                   |                 |                        |      |
|                                  |                 | 90%<br>(1000AF)   | 70%<br>(1000AF) | 50% (Most Probable)<br>(1000AF) | Chance Of Exceeding *<br>(% AVG.) | 30%<br>(1000AF) | 10%<br>(1000AF)        |      |
| CAMAS CREEK nr Ukiah             | APR-JUL         | 9.7               | 12.2            | 13.9                            | 38                                | 18.3            | 25                     | 37   |
| MF JOHN DAY at Ritter            | APR-SEP         | 27                | 47              | 61                              | 48                                | 75              | 95                     | 128  |
| NF JOHN DAY at Monument          | APR-SEP         | 104               | 200             | 265                             | 43                                | 331             | 426                    | 615  |
| MOUNTAIN CREEK near Mitchell     | APR-JUL         | 0.61              | 1.50            | 2.10                            | 47                                | 2.70            | 3.60                   | 4.50 |
| STRAWBERRY CREEK nr Prairie City | APR-JUL         | 3.40              | 4.40            | 5.10                            | 72                                | 5.80            | 6.80                   | 7.10 |
|                                  | APR-SEP         | 3.70              | 4.80            | 5.60                            | 72                                | 6.40            | 7.50                   | 7.80 |

| UPPER JOHN DAY BASIN<br>Reservoir Storage (1000 AF) - End of March |                 |                        |           | UPPER JOHN DAY BASIN<br>Watershed Snowpack Analysis - April 1, 2005 |                         |                      |                                   |    |
|--|-----------------|------------------------|-----------|---|-------------------------|----------------------|-----------------------------------|----|
| Reservoir  | Usable Capacity | *** Usable Storage *** |           |   | Watershed               | Number of Data Sites | This Year as % of Last Yr Average |    |
|  |                 | This Year              | Last Year | Avg   |                         |                      |                                   |    |
|  |                 |                        |           |   | John Day, North Fork    | 8                    | 50                                | 38 |
|  |                 |                        |           |   | John Day above Dayville | 4                    | 52                                | 45 |

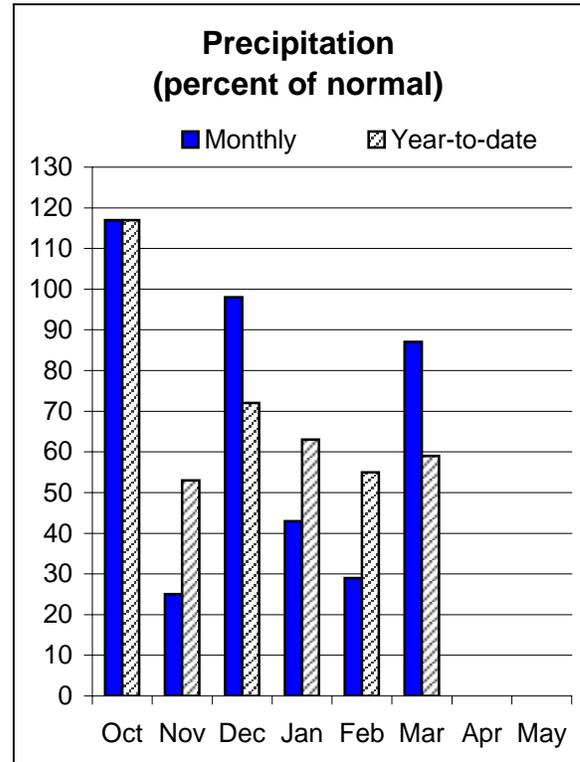
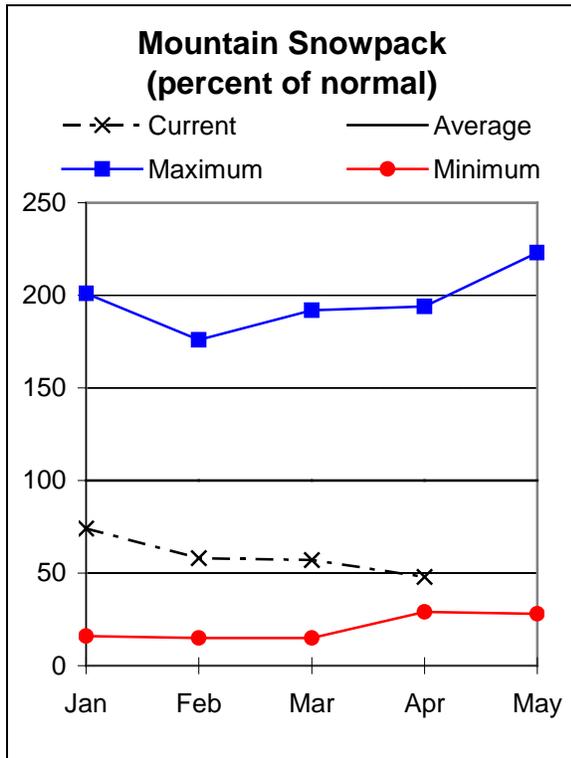
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*For more information contact your local  
Natural Resources Conservation Service Office  
John Day - (541) 575-0135*

# UPPER DESCHUTES AND CROOKED BASINS

April 1, 2005



## Water Supply Outlook

Snowpacks in the Upper Deschutes and Crooked Rivers are less than half of normal for this time of year. Snow accumulation at SNOTEL sites and snow courses was only 48 percent of average on April 1. Following an unusually dry January and February, March precipitation was 87 percent of average. Precipitation for the water year was 59 percent of average on April 1.

Deschutes basin streamflows are influenced substantially by ground water, thus observed streamflows for March were only slightly below normal. The April-September streamflow for Wickiup Reservoir inflow is forecast to be 86 percent of average. April through September Prineville Reservoir inflow is forecast to be 28 percent of average. Current reservoir storage is 92 percent of average in the Upper Deschutes and Crooked river basins.

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UPPER DESCHUTES AND CROOKED BASINS  
Streamflow Forecasts - April 1, 2005

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| Forecast Point                 | Forecast Period | <<===== Drier ===== Future Conditions ===== Wetter =====>> |              |              |              |   |              | 30-Yr Avg.<br>(1000AF) |
|--------------------------------|-----------------|--|--------------|--------------|--------------|---|--------------|------------------------|
|                                |                 | 90% (1000AF)   |              | 70% (1000AF) |              | Chance Of Exceeding *<br>50% (Most Probable)<br>(1000AF) (% AVG.) |              |                        |
|                                |                 | 30% (1000AF)   | 10% (1000AF) | 30% (1000AF) | 10% (1000AF) | 30% (1000AF)  | 10% (1000AF) |                        |
| BEAVER CREEK near Paulina      | APR-SEP         | 5.6  | 7.1          | 8.2          | 30           | 11.8  | 16.8         | 27                     |
|                                | APR-JUL         | 5.5  | 7.1          | 8.2          | 30           | 11.8  | 17.0         | 27                     |
| CRANE PRAIRIE RESERVOIR INFLOW | APR-JUL         | 25   | 29           | 32           | 54           | 35  | 39           | 59                     |
|                                | APR-SEP         | 38   | 46           | 51           | 55           | 56  | 64           | 93                     |
| CRESCENT CREEK near Crescent   | APR-JUL         | 4.2  | 5.0          | 5.5          | 32           | 7.2   | 9.8          | 17.2                   |
|                                | APR-SEP         | 5.1  | 6.0          | 6.7          | 32           | 8.9   | 12.1         | 21                     |
| DESCHUTES below Bend (2)       | AUG-SEP         | 72   | 97           | 115          | 69           | 132   | 158          | 168                    |
| DESCHUTES at Benham Falls      | APR-JUL         | 235  | 250          | 255          | 73           | 260   | 275          | 350                    |
|                                | APR-SEP         | 355  | 375          | 385          | 73           | 395   | 415          | 525                    |
| DESCHUTES below Snow Creek     | APR-JUL         | 13.2   | 17.8         | 21           | 64           | 24  | 29           | 33                     |
|                                | APR-SEP         | 21   | 31           | 37           | 63           | 43  | 53           | 59                     |
| LITTLE DESCHUTES near La Pine  | APR-JUL         | 10.9   | 19.3         | 25           | 35           | 31  | 39           | 71                     |
|                                | APR-SEP         | 12.0   | 22           | 28           | 35           | 34  | 44           | 80                     |
| NF CROOKED blw Lookout Ck      | APR-JUL         | 1.69   | 2.80         | 3.60         | 38           | 4.60  | 6.30         | 9.40                   |
| OCHOCO RESERVOIR INFLOW        | APR-JUL         | 4.6  | 7.3          | 9.1          | 41           | 13.6  | 20           | 22                     |
|                                | APR-SEP         | 4.6  | 7.3          | 9.1          | 41           | 13.6  | 19.9         | 22                     |
| PRINEVILLE RESERVOIR INFLOW    | APR-JUL         | 16.0   | 24           | 31           | 29           | 39  | 52           | 108                    |
|                                | APR-SEP         | 12.0   | 24           | 31           | 28           | 50  | 79           | 109                    |
| SQUAW CREEK near Sisters       | APR-JUL         | 20   | 24           | 26           | 72           | 28  | 32           | 36                     |
|                                | APR-SEP         | 28   | 32           | 35           | 71           | 38  | 42           | 49                     |
| TUMALO CREEK near Bend         | APR-JUL         | 20   | 23           | 26           | 70           | 29  | 32           | 37                     |
|                                | APR-SEP         | 24   | 29           | 32           | 71           | 35  | 40           | 45                     |
| WICKIUP RESERVOIR INFLOW       | APR-JUL         | 136  | 142          | 146          | 85           | 150   | 156          | 171                    |
|                                | APR-SEP         | 230  | 240          | 245          | 86           | 250   | 260          | 285                    |

| UPPER DESCHUTES AND CROOKED BASINS<br>Reservoir Storage (1000 AF) - End of March |                 |                        |           |       | UPPER DESCHUTES AND CROOKED BASINS<br>Watershed Snowpack Analysis - April 1, 2005 |                      |                   |         |
|--|-----------------|------------------------|-----------|-------|---|----------------------|-------------------|---------|
| Reservoir  | Usable Capacity | *** Usable Storage *** |           |       | Watershed   | Number of Data Sites | This Year as % of |         |
|  |                 | This Year              | Last Year | Avg   |   |                      | Last Yr           | Average |
| CRANE PRAIRIE  | 55.3            | 35.2                   | 37.7      | 43.9  | Crooked, Ochoco   | 4                    | 67                | 54      |
| CRESCENT LAKE  | 86.9            | 30.7                   | 34.1      | 53.5  | Deschutes above Wickiup   | 3                    | 48                | 55      |
| OCHOCO   | 47.5            | 30.2                   | 41.6      | 32.6  | Little Deschutes  | 4                    | 47                | 50      |
| PRINEVILLE   | 153.0           | 132.3                  | 147.2     | 132.9 | Tumalo and Squaw Creeks   | 4                    | 32                | 44      |
| WICKIUP  | 200.0           | 188.7                  | 174.7     | 189.7 |   |                      |                   |         |

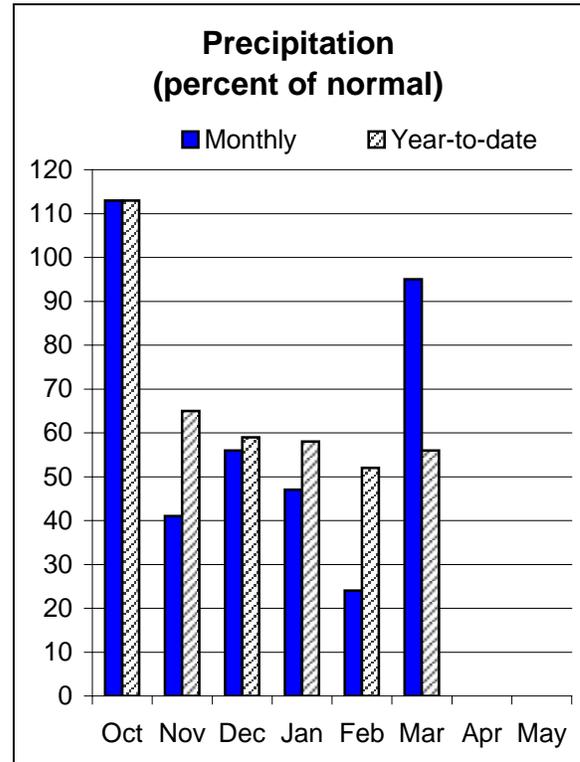
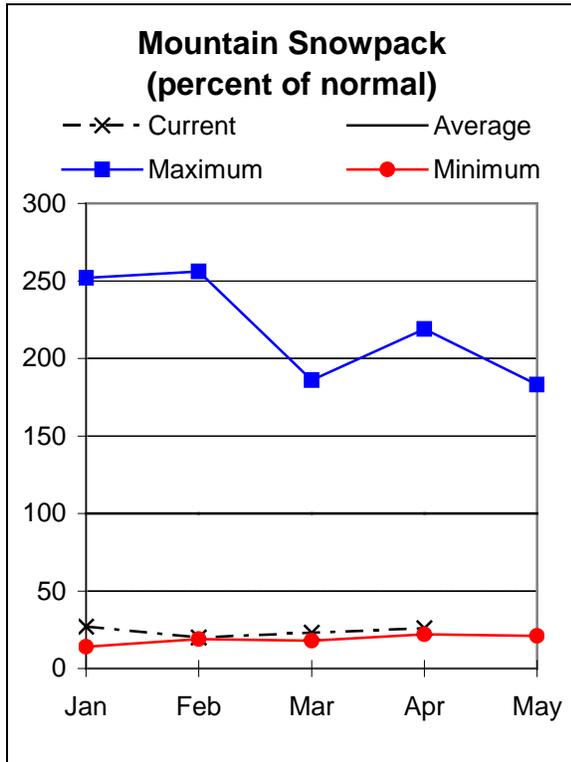
\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

- (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.

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

# HOOD, MILE CREEKS, AND LOWER DESCHUTES BASINS

April 1, 2005



## Water Supply Outlook

The Hood River, Miles Creeks and Lower Deschutes River have suffered the driest conditions in the state this winter. Since the beginning of the water year only 56 percent of normal precipitation has fallen in the area. All winter the snowpack has been abysmal. Unseasonably warm temperatures in early March brought significant melt to the slim snowpack. Several SNOTEL sites experienced record low snow water during March.

The mid-month storms started out with a rain-on-snow event that began to melt what little snow was on the ground. Finally, the series of storms cooled off and brought some welcome moisture and additional snow to the basin. SNOTEL sites in the basin averaged over 10 inches of precipitation during the storm. March precipitation was 95 percent of average.

Observed streamflows were a fraction of normal throughout most of March but returned to near normal by April 1. April-September stream flow forecasts range from 42 to 50 percent of average in the basin. Hood River County has been referred to the governor's office for drought declaration. Water deficits are nearly certain for the coming summer, however continued moist weather would provide short term benefits to irrigators and water users in the basin.

*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 - April 1, 2005

| Forecast Point          | Forecast Period | Future Conditions     |                 |                                 |                                   |                 |                 | 30-Yr Avg.<br>(1000AF) |
|-------------------------|-----------------|-----------------------|-----------------|---------------------------------|-----------------------------------|-----------------|-----------------|------------------------|
|                         |                 | <<===== Drier =====>> |                 | ===== Wetter =====>             |                                   |                 |                 |                        |
|                         |                 | 90%<br>(1000AF)       | 70%<br>(1000AF) | 50% (Most Probable)<br>(1000AF) | Chance Of Exceeding *<br>(% AVG.) | 30%<br>(1000AF) | 10%<br>(1000AF) |                        |
| HOOD at Tucker Bridge   | APR-JUL         | 72                    | 96              | 112                             | 49                                | 128             | 152             | 228                    |
|                         | APR-SEP         | 94                    | 118             | 135                             | 50                                | 152             | 176             | 271                    |
| WF HOOD near Dee        | APR-JUL         | 34                    | 48              | 57                              | 47                                | 66              | 80              | 121                    |
|                         | APR-SEP         | 44                    | 58              | 68                              | 48                                | 78              | 92              | 141                    |
| WHITE below Tygh Valley | APR-JUL         | 22                    | 36              | 46                              | 42                                | 56              | 70              | 110                    |
|                         | APR-SEP         | 27                    | 42              | 52                              | 42                                | 62              | 77              | 124                    |

| HOOD, MILE CREEKS AND LOWER DESCHUTES BASINS<br>Reservoir Storage (1000 AF) - End of March |                 |                        |           |     | HOOD, MILE CREEKS AND LOWER DESCHUTES BASINS<br>Watershed Snowpack Analysis - April 1, 2005 |                      |                   |         |
|--|-----------------|------------------------|-----------|-----|---|----------------------|-------------------|---------|
| Reservoir  | Usable Capacity | *** Usable Storage *** |           |     | Watershed   | Number of Data Sites | This Year as % of |         |
|  |                 | This Year              | Last Year | Avg |   |                      | Last Yr           | Average |
| CLEAR LAKE (WASCO)   | 11.9            | 0.0                    | ---       | 4.5 | Hood River  | 7                    | 24                | 25      |
|  |                 |                        |           |     | Mile Creeks   | 1                    | 23                | 34      |
|  |                 |                        |           |     | White River   | 3                    | 27                | 27      |

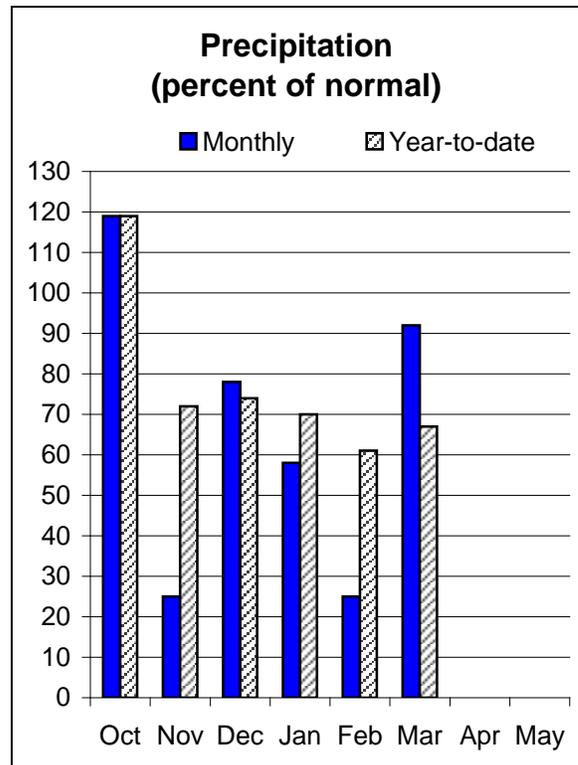
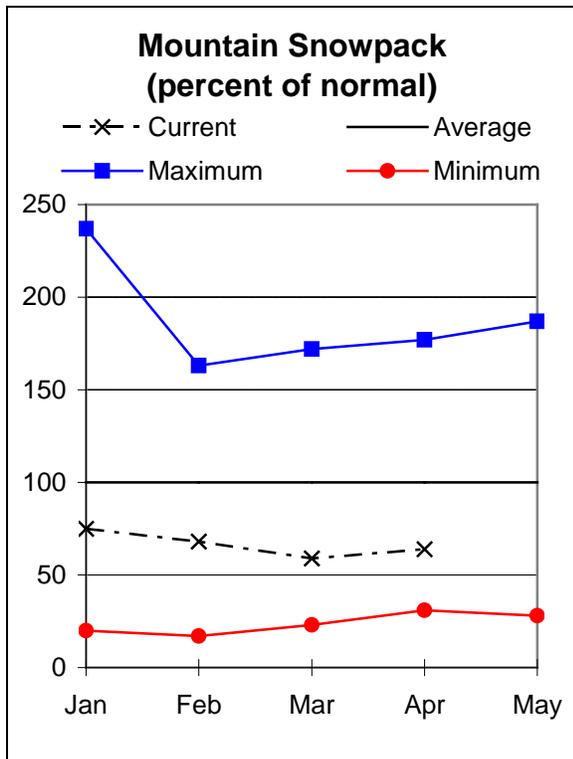
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- (1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
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*For more information contact your local  
Natural Resources Conservation Service Office  
The Dalles - (541) 296-6178*

# LOWER COLUMBIA BASIN

April 1, 2005



## Water Supply Outlook

The combined snowpack for the Columbia basin above The Dalles is 64 percent of normal. The Canadian snowpack is the best in the Columbia at 81 percent of average. March temperatures were above average throughout the Columbia basin, melting snowpacks in Oregon, Washington, Idaho and Montana. Precipitation for March was variable throughout the basin. Since the beginning of the water year, 67 percent of normal precipitation has fallen.

The April through September streamflow forecast for the Sandy River near Marmot is 52 percent of average. The April through September streamflow forecast for the Columbia River at The Dalles is 66 percent of average.

*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 - April 1, 2005

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| Forecast Point                | Forecast Period | <<===== Drier ===== Future Conditions ===== Wetter =====>> |       |                 |    |  |       | 30-Yr Avg.<br>(1000AF) |                 |  |                 |  |
|-------------------------------|-----------------|--|-------|-----------------|----|--|-------|------------------------|-----------------|--|-----------------|--|
|                               |                 | 90%<br>(1000AF)  |       | 70%<br>(1000AF) |    | 50% (Most Probable)<br>(1000AF) (% AVG.) |       |                        | 30%<br>(1000AF) |  | 10%<br>(1000AF) |  |
|                               |                 | 43763  | 50454 | 55000           | 65 | 59550                                    | 66240 |                        | 84600           |  |                 |  |
| COLUMBIA R. at The Dalles (2) | APR-JUL         | 43763  | 50454 | 55000           | 65 | 59550                                    | 66240 | 84600                  |                 |  |                 |  |
|                               | APR-SEP         | 54108  | 60355 | 64600           | 66 | 68840                                    | 75090 | 98600                  |                 |  |                 |  |
| SANDY near Marmot             | APR-JUL         | 90   | 130   | 155             | 50 | 180                                      | 220   | 313                    |                 |  |                 |  |
|                               | APR-SEP         | 120  | 160   | 190             | 52 | 220                                      | 260   | 363                    |                 |  |                 |  |

| LOWER COLUMBIA BASIN<br>Reservoir Storage (1000 AF) - End of March |                 |                        |           | LOWER COLUMBIA BASIN<br>Watershed Snowpack Analysis - April 1, 2005 |             |                      |                           |         |
|--|-----------------|------------------------|-----------|---|-------------|----------------------|---------------------------|---------|
| Reservoir  | Usable Capacity | *** Usable Storage *** |           |   | Watershed   | Number of Data Sites | This Year as % of Last Yr | Average |
|  |                 | This Year              | Last Year | Avg   |             |                      |                           |         |
|  |                 |                        |           |   | Sandy River | 5                    | 22                        | 24      |

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

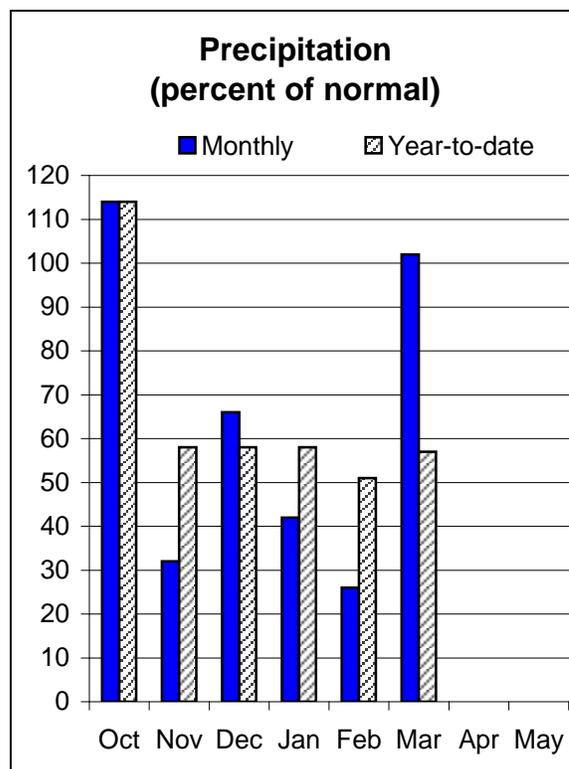
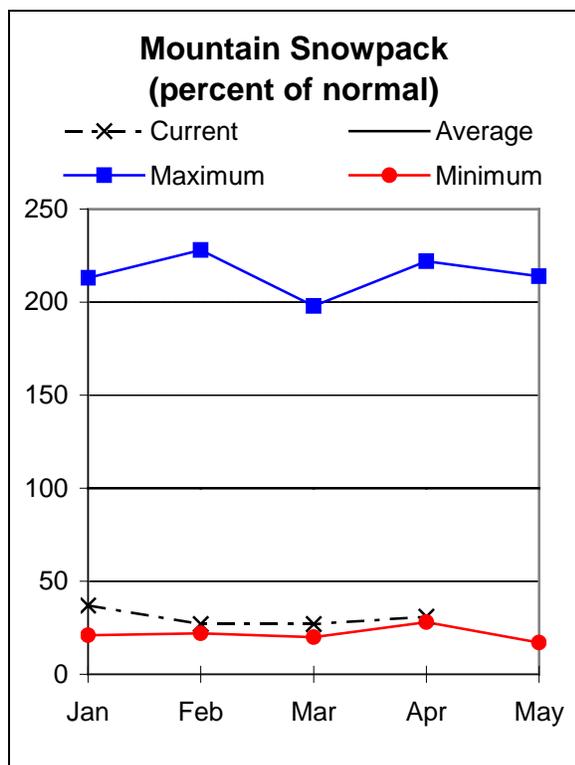
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(2) - The value is natural flow - actual flow may be affected by upstream water management.

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

# WILLAMETTE BASIN

April 1, 2005



## Water Supply Outlook

The Willamette basin has experienced one of the driest winters on record. Precipitation at SNOTEL sites since the beginning of the water year has been only 57 percent of average. Late March storms brought the March precipitation up to 102 percent of normal, the first month since October with near average conditions. The winter snowpack has been extremely limited with very little accumulation during January, February and March. What little snowpack there was rapidly melted during the first half of March. April 1 snow water measured at snow courses and SNOTEL sites was only 31 percent of average.

Observed streamflows were half of normal throughout most of March but by April 1 were near normal. Reservoirs began to refill as a result of the end of March precipitation. Streamflow forecasts for April-September range from a low of 53 percent of average on the Clackamas above Three Lynx to 66 percent of average for Cougar Lake inflow. The April through September forecast for the Willamette at Salem is 62 percent of average. Continued moist weather would benefit water users in the basin, yet many will face deficits this summer.

*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 - April 1, 2005

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| Forecast Point                    | Forecast Period | <<===== Drier ===== Future Conditions ===== Wetter =====>> |                 |   |    |                 |                 | 30-Yr Avg.<br>(1000AF) |
|-----------------------------------|-----------------|--|-----------------|---|----|-----------------|-----------------|------------------------|
|                                   |                 | 90%<br>(1000AF)  | 70%<br>(1000AF) | Chance Of Exceeding *<br>50% (Most Probable)<br>(1000AF) (% AVG.) |    | 30%<br>(1000AF) | 10%<br>(1000AF) |                        |
| BLUE RIVER LAKE INFLOW (1,2)      | APR-MAY         | 21   | 37              | 45  | 67 | 53              | 69              | 67                     |
|                                   | APR-SEP         | 19.0   | 42              | 53  | 62 | 64              | 87              | 86                     |
| CLACKAMAS at Estacada (2)         | APR-JUL         | 245  | 315             | 360   | 56 | 405             | 475             | 640                    |
|                                   | APR-SEP         | 305  | 380             | 430   | 58 | 480             | 555             | 748                    |
| CLACKAMAS above Three Lynx (2)    | APR-JUL         | 190  | 230             | 260   | 55 | 290             | 330             | 474                    |
|                                   | APR-SEP         | 225  | 270             | 300   | 53 | 330             | 375             | 562                    |
| COTTAGE GROVE LAKE INFLOW (1,2)   | APR-MAY         | 0.7  | 12.0            | 19.0  | 58 | 26              | 40              | 33                     |
|                                   | APR-SEP         | 3.0  | 16.0            | 25  | 58 | 34              | 54              | 43                     |
| COUGAR LAKE INFLOW (1,2)          | APR-MAY         | 55   | 83              | 96  | 68 | 109             | 137             | 141                    |
|                                   | APR-SEP         | 95   | 134             | 152   | 66 | 172             | 207             | 230                    |
| DETROIT LAKE INFLOW (1,2)         | APR-MAY         | 134  | 200             | 230   | 66 | 260             | 325             | 349                    |
|                                   | APR-JUL         | 189  | 285             | 330   | 63 | 375             | 470             | 528                    |
|                                   | APR-SEP         | 230  | 335             | 380   | 62 | 425             | 530             | 616                    |
| DORENA LAKE INFLOW (1,2)          | APR-MAY         | 6.0  | 53              | 75  | 69 | 97              | 144             | 108                    |
|                                   | APR-SEP         | 3.0  | 57              | 81  | 66 | 105             | 161             | 122                    |
| FALL CREEK LAKE INFLOW (1,2)      | APR-MAY         | 7.0  | 40              | 55  | 66 | 70              | 103             | 84                     |
| FERN RIDGE LAKE INFLOW (1,2)      | APR-MAY         | 1.4  | 20              | 30  | 65 | 40              | 62              | 46                     |
|                                   | APR-SEP         | 0.3  | 3.0             | 16.0  | 59 | 29              | 58              | 27                     |
| FOSTER LAKE INFLOW (1,2)          | APR-MAY         | 93   | 195             | 245   | 66 | 295             | 395             | 371                    |
|                                   | APR-JUL         | 87   | 235             | 305   | 62 | 375             | 525             | 490                    |
|                                   | APR-SEP         | 105  | 260             | 330   | 63 | 400             | 555             | 527                    |
| GREEN PETER LAKE INFLOW (1,2)     | APR-MAY         | 55   | 120             | 150   | 61 | 180             | 245             | 248                    |
|                                   | APR-JUL         | 48   | 145             | 190   | 58 | 235             | 330             | 327                    |
|                                   | APR-SEP         | 72   | 170             | 215   | 61 | 260             | 360             | 354                    |
| HILLS CREEK LAKE INFLOW (1,2)     | APR-MAY         | 40   | 81              | 100   | 54 | 119             | 160             | 186                    |
|                                   | APR-JUL         | 65   | 127             | 155   | 56 | 185             | 245             | 277                    |
|                                   | JUN-OCT         | 58   | 82              | 92  | 56 | 102             | 126             | 164                    |
|                                   | APR-SEP         | 99   | 157             | 182   | 57 | 207             | 267             | 320                    |
| LITTLE NORTH SANTIAM (1)          | APR-JUL         | 23   | 63              | 81  | 61 | 99              | 139             | 133                    |
|                                   | APR-SEP         | 31   | 73              | 92  | 64 | 111             | 153             | 143                    |
| LOOKOUT POINT LAKE INFLOW (1,2)   | APR-MAY         | 147  | 250             | 300   | 61 | 350             | 455             | 492                    |
|                                   | APR-JUL         | 205  | 365             | 440   | 61 | 515             | 675             | 726                    |
|                                   | JUN-OCT         | 124  | 200             | 235   | 59 | 270             | 345             | 402                    |
|                                   | APR-SEP         | 265  | 425             | 500   | 60 | 575             | 735             | 828                    |
| McKENZIE below Trail Bridge (2)   | APR-JUL         | 141  | 160             | 172   | 65 | 186             | 201             | 266                    |
|                                   | APR-SEP         | 220  | 240             | 255   | 63 | 270             | 290             | 404                    |
| McKENZIE near Vida (1,2)          | APR-JUL         | 390  | 560             | 635   | 65 | 710             | 885             | 977                    |
|                                   | APR-SEP         | 510  | 690             | 770   | 64 | 855             | 1025            | 1201                   |
| MOHAWK near Springfield           | APR-JUL         | 12.0   | 34              | 50  | 63 | 66              | 88              | 79                     |
| OAK GROVE FORK above Power Intake | APR-JUL         | 53   | 63              | 70  | 54 | 77              | 87              | 130                    |
|                                   | APR-SEP         | 71   | 83              | 91  | 55 | 99              | 111             | 167                    |
| NORTH SANTIAM at Mehama (1,2)     | APR-JUL         | 245  | 405             | 475   | 65 | 545             | 705             | 732                    |
|                                   | APR-SEP         | 285  | 450             | 525   | 63 | 600             | 765             | 834                    |
| SOUTH SANTIAM at Waterloo (2)     | APR-JUL         | 155  | 270             | 345   | 63 | 420             | 535             | 549                    |
|                                   | APR-SEP         | 180  | 290             | 370   | 63 | 450             | 560             | 587                    |
| SCOGGINS CREEK near Gaston (2)    | APR-JUL         | 0.1  | 4.0             | 7.0   | 54 | 10.0            | 14.0            | 12.9                   |
| THOMAS CREEK near Scio            | APR-JUL         | 23   | 39              | 50  | 67 | 61              | 77              | 75                     |
| MF WILLAMETTE below NF (1,2)      | JUN-OCT         | 124  | 183             | 210   | 54 | 235             | 295             | 391                    |
|                                   | APR-JUL         | 210  | 350             | 410   | 59 | 470             | 610             | 698                    |
|                                   | APR-MAY         | 131  | 225             | 270   | 57 | 315             | 410             | 471                    |
|                                   | APR-SEP         | 265  | 405             | 470   | 59 | 535             | 675             | 798                    |
| WILLAMETTE at Salem (1,2)         | APR-MAY         | 920  | 1640            | 1970  | 63 | 2300            | 3020            | 3140                   |
|                                   | APR-JUL         | 1160   | 2220            | 2700  | 62 | 3180            | 4240            | 4347                   |
|                                   | APR-SEP         | 1440   | 2500            | 2980  | 62 | 3460            | 4520            | 4804                   |

| WILLAMETTE BASIN<br>Reservoir Storage (1000 AF) - End of March |                 |                              |                              |         | WILLAMETTE BASIN<br>Watershed Snowpack Analysis - April 1, 2005 |                      |                           |               |
|--|-----------------|------------------------------|------------------------------|---------|---|----------------------|---------------------------|---------------|
| 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            | 44.8                         | 56.6                         | 52.6    | Clackamas River   | 4                    | 20                        | 19            |
| COTTAGE GROVE **   | 29.8            | 14.4                         | 16.6                         | 18.5    | McKenzie River  | 5                    | 38                        | 33            |
| COUGAR **  | 155.2           | 6.6                          | 0.0                          | 150.5   | Row River   | 1                    | 18                        | 18            |
| DETROIT **   | 300.7           | 140.1                        | 225.2                        | 222.0   | Santiam River   | 6                    | 27                        | 20            |
| DORENA **  | 70.5            | 32.9                         | 38.4                         | 45.3    | Willamette, Middle Fork   | 6                    | 38                        | 42            |
| FALL CREEK **  | 115.5           | 47.5                         | 73.9                         | 71.1    |   |                      |                           |               |
| FERN RIDGE **  | 109.6           | 0.0                          | 62.4                         | 77.1    |   |                      |                           |               |
| FOSTER **  | 29.7            | 17.5                         | 15.8                         | 12.4    |   |                      |                           |               |
| GREEN PETER **   | 268.2           | 149.2                        | 190.8                        | 236.2   |   |                      |                           |               |
| HILLS CREEK **   | 200.2           | 51.9                         | 142.6                        | 169.1   |   |                      |                           |               |
| LOOKOUT POINT **   | 337.0           | 82.8                         | 236.2                        | 188.7   |   |                      |                           |               |
| TIMOTHY LAKE   | 61.7            | 59.8                         | 51.2                         | 51.6    |   |                      |                           |               |
| HENRY HAGG LAKE  | 53.0            | 47.7                         | 52.1                         | 49.8    |   |                      |                           |               |

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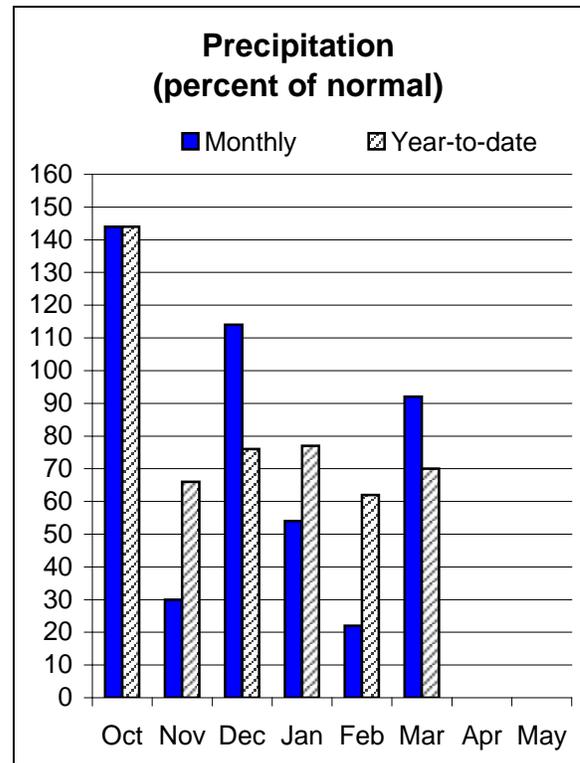
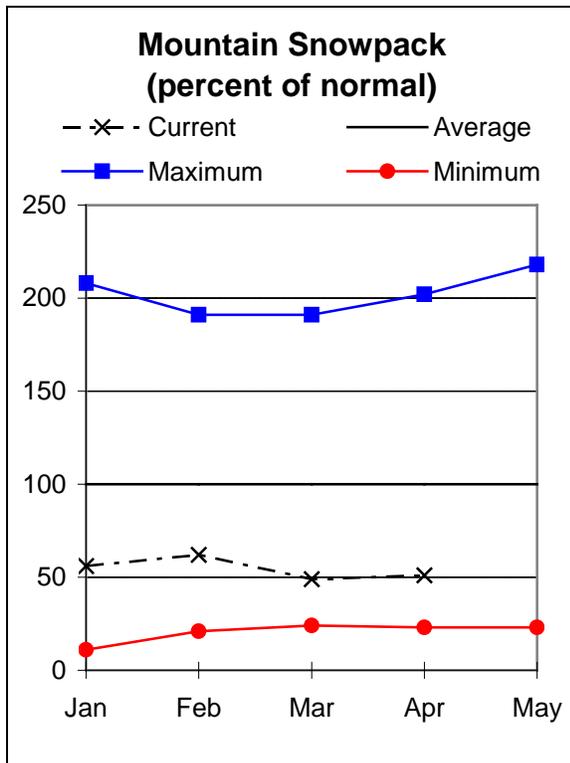
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Snowflake image courtesy of Snowflake Bentley  
<http://www.snowflakebentley.com/>

# ROGUE AND UMPQUA BASINS

April 1, 2005



## Water Supply Outlook

The Rogue and Umpqua basins have not escaped the warm and dry weather experienced throughout much of the state this winter. While March precipitation was nearly average (92 percent of normal), January and February were exceptionally dry. Lower elevation snowpacks were melted by unseasonably high temperatures in early March. The April 1 snowpack for the Rogue and Umpqua basins was only 51 percent of normal. March observed streamflows were one quarter of normal until nearly the end of the month.

Streamflows were briefly buoyed by rain and snowmelt at April 1. Irrigation reservoirs in the Rogue and Umpqua benefited from the inflow and filled to 95 percent of average on April 1. April through September streamflow forecasts range from 38 percent of average on Cow Creek near Azalea to 60 percent of average for the Rogue above Prospect. Water users throughout the Rogue and Umpqua basins can expect water deficits this coming season and may plan accordingly.

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

ROGUE AND UMPQUA BASINS  
Streamflow Forecasts - April 1, 2005

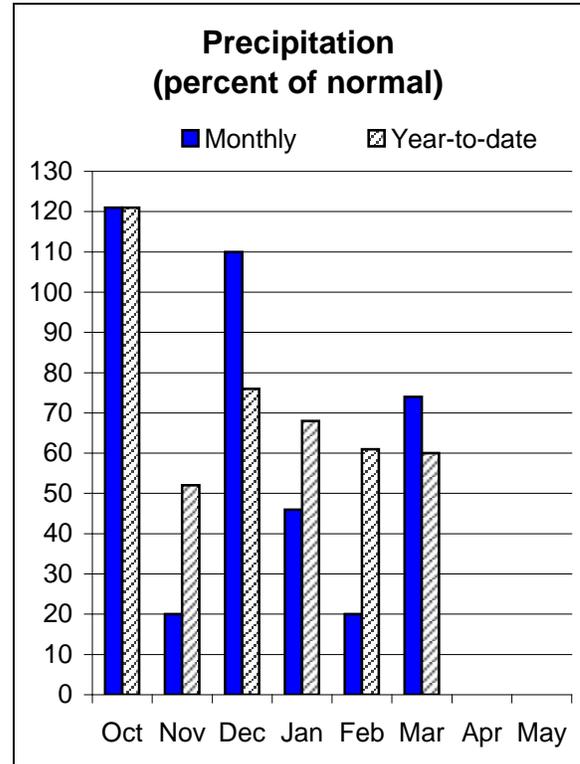
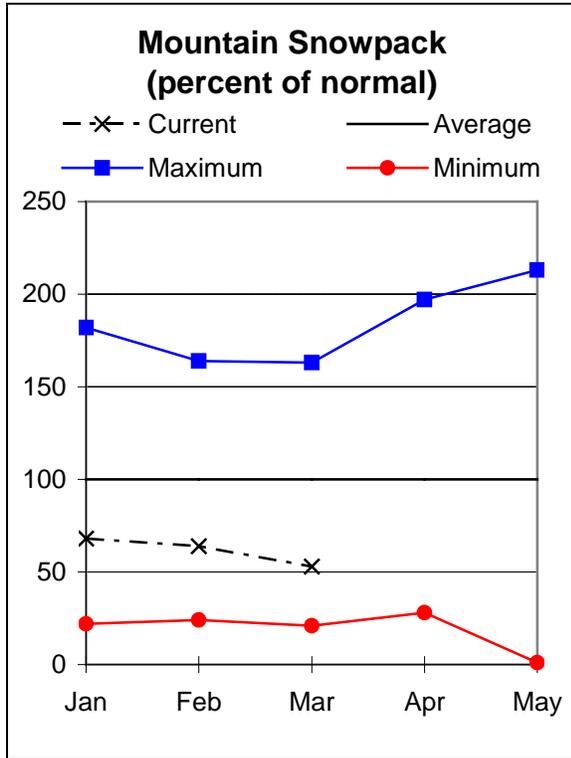
| Forecast Point                      | Forecast Period | <<----- Drier ----->> |          | Future Conditions               |          | ----- Wetter ----->> |          | 30-Yr Avg.<br>(1000AF) |
|-------------------------------------|-----------------|-----------------------|----------|---------------------------------|----------|----------------------|----------|------------------------|
|                                     |                 | 90%                   | 70%      | Chance Of Exceeding *           |          | 30%                  | 10%      |                        |
|                                     |                 | (1000AF)              | (1000AF) | 50% (Most Probable)<br>(1000AF) | (% AVG.) | (1000AF)             | (1000AF) |                        |
| APPLEGATE LAKE Net Inflow (2)       | APR-JUL         | 37                    | 54       | 65                              | 58       | 76                   | 93       | 112                    |
|                                     | APR-SEP         | 42                    | 59       | 70                              | 59       | 81                   | 98       | 119                    |
| SF BIG BUTTE CK nr Butte Falls      | APR-JUL         | 10.3                  | 16.1     | 20                              | 59       | 24                   | 30       | 34                     |
| CLEARWATER above Trap Creek (2)     | APR-SEP         | 20                    | 27       | 32                              | 48       | 37                   | 44       | 67                     |
| COW CREEK near Azalea               | APR-JUL         | 0.5                   | 3.8      | 6.5                             | 39       | 9.2                  | 13.1     | 16.5                   |
|                                     | APR-SEP         | 0.1                   | 4.1      | 6.8                             | 38       | 9.5                  | 13.5     | 17.7                   |
| FOURMILE LAKE net Inflow (2)        | APR-JUL         | 0.96                  | 2.10     | 2.90                            | 50       | 3.70                 | 4.80     | 5.80                   |
|                                     | APR-SEP         | 1.46                  | 2.60     | 3.40                            | 48       | 4.20                 | 5.30     | 7.10                   |
| GRAVE CREEK at Pease Bridge         | APR-JUL         | 0.70                  | 2.70     | 4.00                            | 55       | 5.30                 | 7.30     | 7.30                   |
| HYATT PRAIRIE RES net Inflow (2)    | APR-JUL         | 0.10                  | 1.15     | 2.00                            | 42       | 2.80                 | 4.10     | 4.80                   |
| ILLINOIS R near Kerby               | APR-JUL         | 39                    | 78       | 104                             | 58       | 130                  | 171      | 179                    |
|                                     | APR-SEP         | 41                    | 80       | 106                             | 57       | 132                  | 170      | 186                    |
| NF LITTLE BUTTE CK nr Lakecreek (2) | APR-SEP         | 3.3                   | 5.8      | 7.4                             | 55       | 9.0                  | 11.5     | 13.4                   |
| SF LITTLE BUTTE CK nr Lakecreek (2) | APR-SEP         | 8.4                   | 14.0     | 18.0                            | 56       | 22                   | 28       | 32                     |
| LOST CREEK LAKE INFLOW (2)          | APR-JUL         | 235                   | 275      | 300                             | 57       | 325                  | 365      | 530                    |
|                                     | APR-SEP         | 295                   | 340      | 370                             | 56       | 400                  | 445      | 665                    |
| RED BLANKET CK nr Prospect          | APR-JUL         | 8.9                   | 15.0     | 19.0                            | 56       | 23                   | 29       | 34                     |
| ROGUE above Prospect                | APR-JUL         | 115                   | 136      | 150                             | 61       | 164                  | 186      | 245                    |
|                                     | APR-SEP         | 141                   | 165      | 180                             | 60       | 195                  | 220      | 300                    |
| SF ROGUE near Prospect (2)          | APR-JUL         | 21                    | 29       | 34                              | 59       | 39                   | 47       | 58                     |
|                                     | APR-SEP         | 23                    | 32       | 38                              | 54       | 44                   | 53       | 70                     |
| ROGUE R at Raygold (2)              | APR-JUL         | 305                   | 360      | 400                             | 55       | 440                  | 495      | 730                    |
|                                     | APR-SEP         | 390                   | 450      | 490                             | 55       | 530                  | 590      | 890                    |
| ROGUE R at Grants Pass (2)          | APR-JUL         | 275                   | 345      | 390                             | 53       | 435                  | 505      | 740                    |
|                                     | APR-SEP         | 330                   | 410      | 460                             | 52       | 510                  | 590      | 885                    |
| SUCKER CK blw Little Grayback       | APR-JUL         | 13.0                  | 23       | 30                              | 58       | 37                   | 47       | 52                     |
|                                     | APR-SEP         | 15.0                  | 26       | 33                              | 59       | 40                   | 51       | 56                     |
| NORTH UMPQUA nr Toketee Falls (2)   | APR-SEP         | 61                    | 78       | 90                              | 60       | 102                  | 119      | 151                    |
| NORTH UMPQUA at Winchester          | APR-JUL         | 230                   | 360      | 450                             | 57       | 540                  | 670      | 795                    |
| SOUTH UMPQUA near Brockway          | APR-JUL         | 20                    | 101      | 185                             | 46       | 270                  | 390      | 400                    |
| SOUTH UMPQUA at Tiller              | APR-JUL         | 29                    | 71       | 100                             | 52       | 129                  | 171      | 193                    |
|                                     | APR-SEP         | 32                    | 74       | 103                             | 50       | 132                  | 174      | 205                    |

| Reservoir      | ROGUE AND UMPQUA BASINS<br>Reservoir Storage (1000 AF) - End of March |               |                  |                 | ROGUE AND UMPQUA BASINS<br>Watershed Snowpack Analysis - April 1, 2005 |                      |                           |              |
|----------------|---|---------------|------------------|-----------------|--|----------------------|---------------------------|--------------|
|                | Usable Capacity   | *** This Year | Usable Last Year | Storage *** Avg | Watershed  | Number of Data Sites | This Year as % of Last Yr | % of Average |
| APPLEGATE      | 75.2  | 29.0          | 40.7             | 46.9            | Applegate River  | 6                    | 62                        | 70           |
| EMIGRANT LAKE  | 39.0  | 29.6          | 36.9             | 34.4            | Bear Creek   | 5                    | 66                        | 73           |
| FISH LAKE      | 8.0   | 4.0           | 4.1              | 5.8             | Butte Creek  | 6                    | 32                        | 30           |
| FOURMILE LAKE  | 16.1  | 3.6           | 2.3              | 10.2            | Illinois River   | 4                    | 43                        | 53           |
| HOWARD PRAIRIE | 60.0  | 32.9          | 39.7             | 44.9            | North Umpqua River   | 9                    | 37                        | 36           |
| HYATT PRAIRIE  | 16.1  | 13.6          | 14.6             | 12.3            | Rogue River  | 22                   | 49                        | 53           |
| LOST CREEK **  | 315.0   | 221.2         | 136.1            | 263.2           |  |                      |                           |              |

\* 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.

# KLAMATH BASIN

April 1, 2005



## Water Supply Outlook

The Klamath basin snowpack has progressively fallen behind average conditions monthly since January. April 1 snow water was only 51 percent of average in the Klamath. The late March storms that buoyed the rest of the state had little effect on the Klamath. March precipitation was only 74 percent of normal, the lowest in the state. Since the beginning of the water year on October 1, the basin has received only 68 percent of its normal precipitation.

April 1 reservoir storage in Gerber, Clear Lake and Upper Klamath Lake was 72 percent of average. The Klamath basin water supply outlook warranted a drought declaration by the governor on March 8. April through September streamflow forecasts range from 28 percent of average at Gerber reservoir inflow to 50 percent of average for the Sprague River near Chiloquin. Water users can expect deficits this season and may begin to plan accordingly.

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

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KLAMATH BASIN  
Streamflow Forecasts - April 1, 2005

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| Forecast Point                    | Forecast Period | <<===== Drier ===== Future Conditions ===== Wetter =====>> |                 |                                 |          |                 |                 | 30-Yr Avg.<br>(1000AF) |
|-----------------------------------|-----------------|--|-----------------|---------------------------------|----------|-----------------|-----------------|------------------------|
|                                   |                 | =====  |                 | Chance Of Exceeding *           |          | =====           |                 |                        |
|                                   |                 | 90%<br>(1000AF)  | 70%<br>(1000AF) | 50% (Most Probable)<br>(1000AF) | (% AVG.) | 30%<br>(1000AF) | 10%<br>(1000AF) |                        |
| CLEAR LAKE NET INFLOW (2)         | APR-JUL         | 7.3  | 8.6             | 15.0                            | 37       | 21              | 31              | 41                     |
|                                   | APR-SEP         | 8.2  | 11.6            | 17.6                            | 37       | 24              | 32              | 48                     |
| GERBER RESERVOIR Net Inflow (2)   | APR-JUL         | 2.9  | 3.9             | 4.8                             | 28       | 8.7             | 14.4            | 16.9                   |
|                                   | APR-SEP         | 2.7  | 3.8             | 5.0                             | 28       | 8.7             | 14.0            | 17.8                   |
| Sprague River near Chiloquin      | APR-JUL         | 47   | 79              | 100                             | 49       | 122             | 152             | 203                    |
|                                   | APR-SEP         | 62   | 93              | 115                             | 50       | 135             | 170             | 230                    |
| UPPER KLAMATH LAKE NET INFLOW (1) | APR-JUL         | 96   | 154             | 180                             | 42       | 206             | 264             | 425                    |
|                                   | APR-SEP         | 135  | 190             | 215                             | 42       | 240             | 294             | 515                    |
| WILLIAMSON R near Chiloquin       | APR-JUL         | 115  | 140             | 155                             | 48       | 170             | 195             | 320                    |
|                                   | APR-SEP         | 140  | 170             | 185                             | 48       | 200             | 230             | 385                    |

| KLAMATH BASIN<br>Reservoir Storage (1000 AF) - End of March |                 |                        |           |       | KLAMATH BASIN<br>Watershed Snowpack Analysis - April 1, 2005 |                      |                   |         |
|---|-----------------|------------------------|-----------|-------|--|----------------------|-------------------|---------|
| 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           | 72.6                   | 131.4     | 248.9 | Lost River   | 6                    | 0                 | 13      |
| GERBER  | 94.3            | 21.6                   | 49.6      | 66.6  | Sprague River  | 6                    | 88                | 73      |
| UPPER KLAMATH LAKE  | 523.7           | 463.6                  | 441.1     | 457.8 | Upper Klamath Lake   | 13                   | 48                | 50      |
|   |                 |                        |           |       | Williamson River   | 5                    | 51                | 53      |

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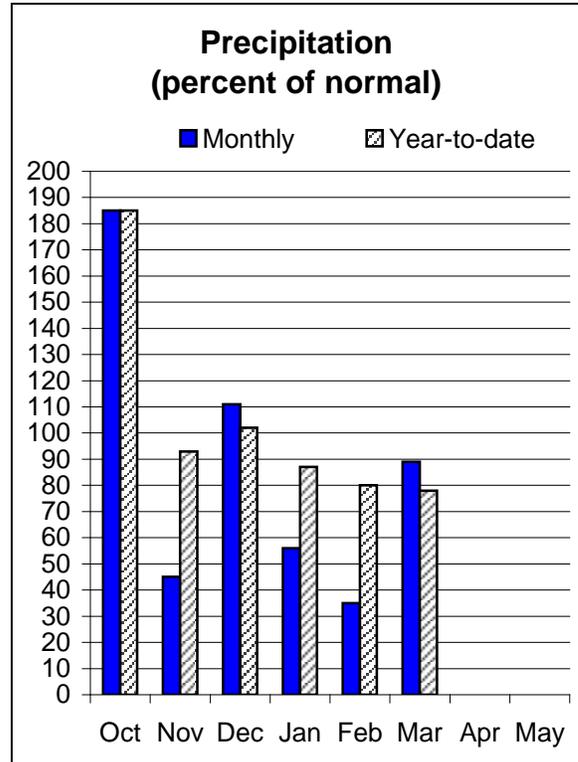
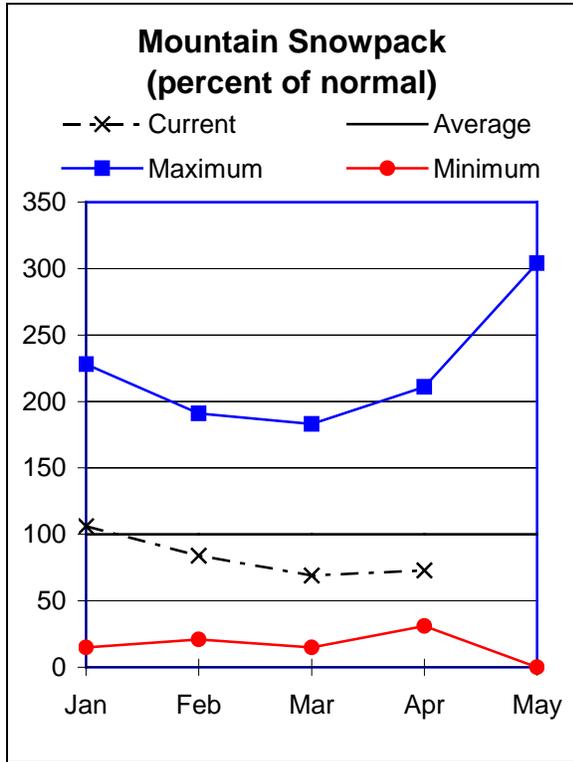
\* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

(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.

# LAKE COUNTY AND GOOSE LAKE

April 1, 2005



## Water Supply Outlook

The southeast corner of the state has experienced a different winter than the rest of Oregon. Starting out the water year with some good storms in October, November and December has helped Lake County and Goose Lake Basin weather a dry January and February. March precipitation was 89 percent of average. Since the beginning of the water year, Lake County and Goose Lake Basin have received 68 percent of normal precipitation. The April 1 snowpack was 73 percent of average, the best percentage in the state.

Lake County and Goose Lake basins April through September streamflow forecasts range from 49 percent of average on Honey Creek near Plush to 62 percent of average for the Chewaucan near Paisley. Despite having some of the best water supply conditions in the State, water users in the basin can expect late summer deficits.

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

LAKE COUNTY AND GOOSE LAKE BASINS  
Streamflow Forecasts - April 1, 2005

| Forecast Point                 | Forecast Period | <<===== Drier ===== Future Conditions ===== Wetter =====>> |      |              |    |                                       |      | 30-Yr Avg.<br>(1000AF) |                           |  |
|--------------------------------|-----------------|--|------|--------------|----|---------------------------------------|------|------------------------|---------------------------|--|
|                                |                 | 90% (1000AF)   |      | 70% (1000AF) |    | 50% (Most Probable) (1000AF) (% AVG.) |      |                        | 30% (1000AF) 10% (1000AF) |  |
|                                |                 |  |      |              |    |                                       |      |                        |                           |  |
| BRIDGE CK nr Spahr Ranch       | APR-JUL         | 0.52   | 1.20 | 1.70         | 53 | 2.20                                  | 2.90 | 3.20                   |                           |  |
| CHEWAUCAN R nr Paisley         | APR-JUL         | 26   | 38   | 46           | 62 | 54                                    | 66   | 74                     |                           |  |
|                                | APR-SEP         | 28   | 40   | 48           | 62 | 56                                    | 68   | 78                     |                           |  |
| COTTONWOOD CK nr Lakeview (2)  | APR-JUL         | 3.30   | 4.50 | 5.40         | 62 | 6.30                                  | 7.50 | 8.70                   |                           |  |
| DEEP CK abv Adel               | APR-JUL         | 19.0   | 28   | 34           | 51 | 40                                    | 49   | 67                     |                           |  |
|                                | APR-SEP         | 22   | 31   | 37           | 54 | 43                                    | 52   | 69                     |                           |  |
| DREWS RESERVOIR net Inflow (2) | APR-JUL         | 0.6  | 5.7  | 10.0         | 48 | 14.3                                  | 21   | 21                     |                           |  |
| HONEY CK nr Plush              | APR-JUL         | 2.2  | 5.7  | 8.1          | 49 | 10.5                                  | 14.0 | 16.4                   |                           |  |
|                                | APR-SEP         | 8.0  | 8.1  | 8.2          | 49 | 8.3                                   | 8.4  | 16.6                   |                           |  |
| SILVER CK nr Silver Lk         | APR-JUL         | 3.0  | 6.0  | 8.0          | 55 | 10.0                                  | 13.0 | 14.5                   |                           |  |
| TWENTYMILE CK nr Adel          | APR-JUL         | 2.1  | 6.5  | 9.6          | 57 | 12.7                                  | 17.1 | 16.9                   |                           |  |
|                                | APR-SEP         | 2.4  | 6.9  | 10.0         | 58 | 13.0                                  | 18.0 | 17.4                   |                           |  |

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

LAKE COUNTY AND GOOSE LAKE BASINS  
Watershed Snowpack Analysis - April 1, 2005

| 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             | 6.9                    | 9.3       | 5.7       | Chewaucan River         | 5                    | 64                | 52      |
| DREWS           | 63.0            | 16.0                   | 35.0      | 47.9      | Deep Creek              | 4                    | 83                | 79      |
| THOMPSON VALLEY | NO REPORT       | NO REPORT              | NO REPORT | NO REPORT | Drew Creek              | 5                    | 123               | 48      |
|                 |                 |                        |           |           | Honey Creek             | 3                    | 97                | 78      |
|                 |                 |                        |           |           | Silver Creek (Lake Co.) | 4                    | 142               | 107     |
|                 |                 |                        |           |           | Twentymile Creek        | 6                    | 87                | 76      |

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

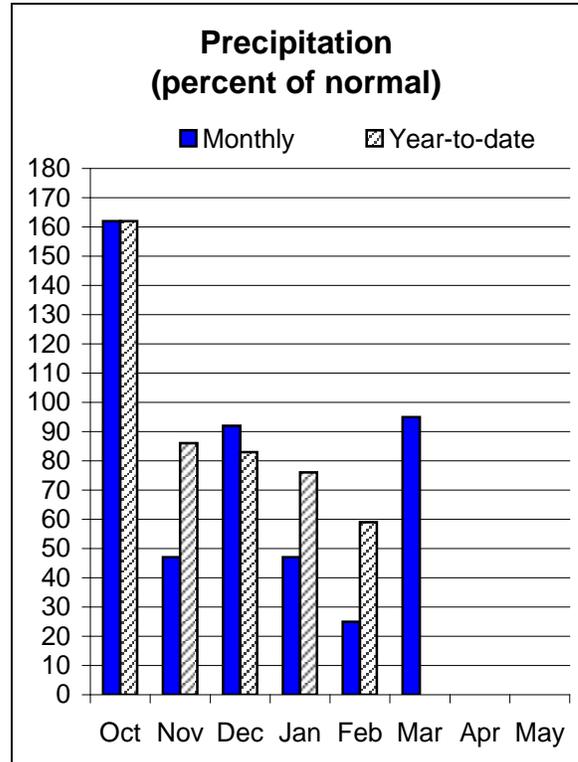
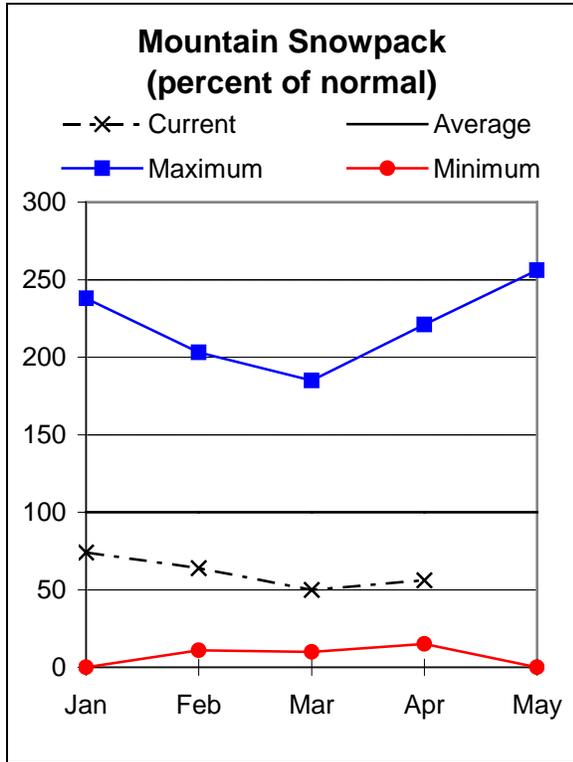
(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

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

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

# HARNEY BASIN

April 1, 2005



## Water Supply Outlook

The April 1 snowpack in the Harney basin was 56 percent of average as measured at snow courses, SNOTEL sites and aerial marker surveys. Late March storms brought the precipitation for the month to 95 percent of normal. Since the beginning of the water year, 68 percent of normal precipitation has fallen.

Observed streamflows in the Donner und Blitzen are much lower than normal due to the limited snowpack this winter. The April through September forecast for the Donner und Blitzen near Frenchglen is 54 percent of average. The April through September streamflow forecast for the Silvies near Burns is 46 percent of average. Water users in the Harney basin can expect water deficits this coming season.

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HARNEY BASIN  
Streamflow Forecasts - April 1, 2005

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| Forecast Point                     | Forecast Period | <<===== Drier ===== Future Conditions ===== Wetter =====>> |                 |                                 |          |                 |                 | 30-Yr Avg.<br>(1000AF) |
|------------------------------------|-----------------|--|-----------------|---------------------------------|----------|-----------------|-----------------|------------------------|
|                                    |                 | =====  |                 | Chance Of Exceeding *           |          | =====           |                 |                        |
|                                    |                 | 90%<br>(1000AF)  | 70%<br>(1000AF) | 50% (Most Probable)<br>(1000AF) | (% AVG.) | 30%<br>(1000AF) | 10%<br>(1000AF) |                        |
| DONNER und BLITZEN R nr Frenchglen | APR-JUL         | 19.0   | 28              | 34                              | 53       | 40              | 49              | 64                     |
|                                    | APR-SEP         | 22   | 32              | 38                              | 54       | 44              | 54              | 70                     |
| SILVER CK nr Riley                 | APR-JUL         | 4.6  | 7.8             | 10.0                            | 53       | 12.2            | 15.4            | 19.0                   |
| SILVIES R nr Burns                 | APR-JUL         | 2.9  | 24              | 44                              | 46       | 64              | 93              | 96                     |
|                                    | APR-SEP         | 4.9  | 25              | 45                              | 46       | 65              | 95              | 99                     |
| TROUT CK nr Denio                  | APR-JUL         | 2.00   | 3.90            | 5.20                            | 54       | 6.50            | 8.40            | 9.60                   |
|                                    | APR-SEP         | 2.4  | 4.4             | 5.8                             | 56       | 7.2             | 9.2             | 10.3                   |

| HARNEY BASIN<br>Reservoir Storage (1000 AF) - End of March |                 |                        |           | HARNEY BASIN<br>Watershed Snowpack Analysis - April 1, 2005 |                          |                      |                                   |    |
|--|-----------------|------------------------|-----------|---|--------------------------|----------------------|-----------------------------------|----|
| Reservoir  | Usable Capacity | *** Usable Storage *** |           |   | Watershed                | Number of Data Sites | This Year as % of Last Yr Average |    |
|  |                 | This Year              | Last Year | Avg   |                          |                      |                                   |    |
|  |                 |                        |           |   | Donner und Blitzen River | 4                    | 70                                | 55 |
|  |                 |                        |           |   | Silver Creek (Harney Co) | 2                    | 57                                | 38 |
|  |                 |                        |           |   | Silvies River            | 6                    | 59                                | 43 |
|  |                 |                        |           |   | Trout Creek              | 4                    | 125                               | 74 |

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\* 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.

LOW FLOW FORECASTS FOR OREGON AS OF April 1, 2005

| FORECAST POINT | LOW FLOW CFS | FORECAST DATE OF LOW FLOW | AVERAGE DATE OF LOW FLOW |
|----------------|--------------|---------------------------|--------------------------|
|----------------|--------------|---------------------------|--------------------------|

**OWYHEE AND MALHEUR BASINS:**

|                |      |        |        |
|----------------|------|--------|--------|
| Owyhee nr Rome | 2000 | ***    | May 14 |
|                | 1000 | Apr 5  | May 28 |
|                | 500  | Apr 25 | Jun 11 |

**BURNT, POWDER, PINE, GRANDE RONDE AND IMNAHA BASINS:**

|  |     |        |           |
|--|-----|--------|-----------|
| Eagle Ck above                         | 225 | Jun 10 | Jul 25    |
| Skull Ck                               | 160 | Jun 15 | Aug 5     |
|  |     |        | Avg Value |
| Catherine Ck nr Union                  | 25  | Aug 1  | 49 cfs    |
|  | 100 | Jun 10 | Jul 9     |
|  | 50  | Jun 20 | Jul 28    |
| Powder near Sumpter                    | 100 | May 15 | Jun 25    |
|  | 20  | Jun 10 | Jul 22    |
| Deer Ck above Phillips Resv nr Sumpter | 40  | May 1  | Jun 17    |
|  | 10  | May 20 | Jul 6     |

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

|                          |     |          |           |
|--------------------------|-----|----------|-----------|
| Umatilla at Pendleton    | 550 | Apr 10   | May 17    |
| SF Walla Walla nr Milton | 200 | May 5    | Jun 9     |
|                          |     | Min Flow | Avg Value |
|                          | 70  | Aug-Sep  | 105 cfs   |

**UPPER JOHN DAY BASIN:**

|                        |     |       |                      |
|------------------------|-----|-------|----------------------|
| John Day at Service Ck | 105 | Aug 1 | Avg Value<br>212 cfs |
|------------------------|-----|-------|----------------------|

**UPPER DESCHUTES AND CROOKED BASINS:**

|                     |      |        |        |
|---------------------|------|--------|--------|
| Crane Prairie       | 150  | Peak   |        |
| Net Inflow          | 110  | Oct 31 |        |
|                     |      | Peak   |        |
|                     |      | May 29 |        |
| Crooked R           | 100  | Apr 30 | Jun 1  |
| Deschutes blw Bend  | 1500 | ***    | Jul 1  |
| Little Deschutes    | 400  | ***    | Jun 7  |
| nr LaPine           | 200  | May 10 | Jul 8  |
| Squaw Ck nr Sisters | 100  | Jun 12 | Aug 16 |
| Tumalo Ck nr Bend   | 235  | Jun 10 | Jun 23 |
|                     | 207  | Jun 12 | Jun 25 |
|                     | 150  | Jun 18 | Jul 5  |
|                     | 71   | Jun 20 | Aug 7  |

\*\*\* flow will not reach this value

| <b>FORECAST POINT</b> | <b>LOW FLOW CFS</b> | <b>FORECAST DATE OF LOW FLOW</b> | <b>AVERAGE DATE OF LOW FLOW</b> |
|-----------------------|---------------------|----------------------------------|---------------------------------|
|-----------------------|---------------------|----------------------------------|---------------------------------|

**HOOD, MILE CREEKS AND LOWER DESCHUTES BASINS:**

|                      |     |           |                      |
|----------------------|-----|-----------|----------------------|
| Clear Branch Inflow  | 25* | Jul 15-31 | 39**cfs              |
| White bl Tygh Valley | 200 | May 20    | Jul 3                |
|                      | 100 | Aug 1     | Avg Value<br>145 cfs |

\* Average cfs forecast to flow for this two-week period.

\*\* Average cfs for period of record.

**ROGUE AND UMPQUA BASINS:**

|                          |     |        |        |
|--------------------------|-----|--------|--------|
| Cow Ck nr                | 20  | Jun 10 | Jul 4  |
| Azalea                   | 10  | Jul 10 | Aug 19 |
| Little Butte Ck SF       | 100 | Apr 30 | May 15 |
| South Umpqua nr Brockway | 90  | Aug 1  | Aug 28 |
| South Umpqua at Tiller   | 140 | Jun 25 | Jul 12 |
|                          | 90  | Jul 12 | Jul 28 |
|                          | 60  | Jul 30 | Aug 24 |

**LAKE COUNTY AND GOOSE LAKE BASINS:**

|                    |     |        |        |
|--------------------|-----|--------|--------|
| Deep Ck abv Adel   | 100 | May 20 | Jun 21 |
| Honey Ck nr        | 100 | ***    | May 15 |
| Plush              | 50  | May 15 | May 30 |
| Twentymile nr Adel | 50  | Apr 25 | Jun 2  |
|                    | 10  | May 25 | Jul 3  |

**HARNEY BASIN:**

|                    |     |        |        |
|--------------------|-----|--------|--------|
| Silvies nr Burns   | 400 | ***    | May 5  |
|                    | 200 | Apr 25 | May 21 |
|                    | 100 | May 10 | Jun 9  |
|                    | 50  | May 25 | Jun 23 |
| Donner und Blitzen | 200 | May 25 | Jun 15 |
|                    | 100 | Jun 15 | Jul 5  |

\*\*\* flow will not reach this value

B A S I N   S U M M A R Y   O F  
S N O W   C O U R S E   D A T A

A P R I L   2 0 0 5

| SNOW COURSE          | ELEVATION | DATE    | SNOW<br>DEPTH | WATER<br>CONTENT | LAST<br>YEAR | AVERAGE<br>71-00 |
|----------------------|-----------|---------|---------------|------------------|--------------|------------------|
| <b>Oregon</b>        |           |         |               |                  |              |                  |
| ALTHOUSE #2          | 4530      | 4/01/05 | ---           | 1.1E             | 4.5          | 4.1              |
| ANEROID LAKE SNOTEL  | 7300      | 4/01/05 | 61            | 14.3             | 22.1         | 25.7             |
| ANNIE SPRING REV     | 6120      | 3/31/05 | 87            | 27.2             | 50.2         | 42.9             |
| ANNIE SPRING SNOTEL  | 6120      | 4/01/05 | 80            | 26.9             | 52.1         | --               |
| ANTHONY LAKE         | 7130      | 3/31/05 | 49            | 13.6             | 27.6         | 26.3             |
| ARBUCKLE MTN SNOTEL  | 5400      | 4/01/05 | 30            | 9.4              | 17.7         | 22.3             |
| BALD MTN,OR AM       | 6720      | 3/31/05 | 51            | 16.3             | 27.6         | 25.7             |
| BARLEY CAMP AM       | 6900      | 3/30/05 | 46            | 13.8             | 16.2         | 16.3             |
| BEAR FLAT MEADOW AM  | 5900      | 3/30/05 | 21            | 6.3              | 12.1         | 11.2             |
| BEAVER DAM CREEK     | 5100      | 3/31/05 | 12            | 2.9              | 8.1          | 10.0             |
| BEAVER RES. SNOTEL   | 5150      | 4/01/05 | 19            | 6.0              | 15.2         | 9.2              |
| BIG RED MTN SNOTEL   | 6250      | 4/01/05 | 67            | 23.0             | 32.9         | 28.4             |
| BIG SHEEP AM         | 6200      | 3/31/05 | 62            | 19.8             | 15.2         | 26.6             |
| BIGELOW CAMP SNOTEL  | 5120      | 4/01/05 | 12            | 4.2              | 14.6         | 11.6             |
| BILLIE CK DVD SNOTEL | 5300      | 4/01/05 | 14            | 4.6              | 26.4         | 21.5             |
| BLAZED ALDER SNOTEL  | 3650      | 4/01/05 | 19            | 4.3              | 33.7         | 32.1             |
| BLUE MTN SPGS SNOTEL | 5900      | 4/01/05 | 22            | 7.6              | 16.3         | 17.3             |
| BOULDER CREEK AM     | 5690      | 3/30/05 | 4             | 1.4              | .0           | 1.1              |
| BOURNE SNOTEL        | 5800      | 4/01/05 | ---           | 4.7              | 14.4         | 17.9             |
| BOWMAN SPRNGS SNOTEL | 4580      | 4/01/05 | ---           | .4               | 5.3          | 8.6              |
| BUCK PASTURE AM      | 5700      | 3/30/05 | 3             | 1.0              | .0           | 1.2              |
| BUCKSKIN LAKE AM     | 5200      | 3/30/05 | 0             | .0               | .0           | --               |
| BULLY CREEK AM       | 5300      | 3/30/05 | 0             | .0               | .0           | .5               |
| CALIBAN ALT          | 6500      | 3/28/05 | 70            | 23.4             | 33.6         | 30.9             |
| CALL MEADOWS AM      | 5340      | 3/30/05 | 10            | 3.5              | .0           | 2.1              |
| CAMAS CREEK #3       | 5850      | 3/29/05 | 28            | 8.5              | 13.6         | 13.1             |
| CASCADE SUM. SNOTEL  | 4880      | 4/01/05 | 50            | 16.4             | 34.9         | 31.3             |
| CHEMULT ALT SNOTEL   | 4760      | 4/01/05 | ---           | .3               | 2.2          | 5.3              |
| CLACKAMAS LK. SNOTEL | 3400      | 4/01/05 | 3             | 1.1              | 6.2          | 11.3             |
| CLEAR LAKE SNOTEL    | 3500      | 4/01/05 | ---           | 1.3              | 9.6          | 14.1             |
| COLD SPRINGS SNOTEL  | 6100      | 4/01/05 | ---           | 8.0              | 30.7         | 28.2             |
| COLVIN CREEK AM      | 6550      | 3/30/05 | 9             | 2.8              | .0           | 2.6              |
| COUNTY LINE SNOTEL   | 4800      | 4/01/05 | ---           | .1               | .0           | 2.2              |
| COX FLAT AM          | 5750      | 3/30/05 | 0             | .0               | .0           | 4.3              |
| CRAZYMAN FLAT AM     | 6100      | 3/30/05 | 14            | 4.2              | 9.9          | 9.1              |
| CRAZYMAN FLAT SNOTEL | 6100      | 4/01/05 | 27            | 11.5             | 12.9         | --               |
| DALY LAKE SNOTEL     | 3600      | 4/01/05 | 14            | 2.8              | 12.4         | 12.7             |
| DEADHORSE GRADE      | 3700      | 3/30/05 | 15            | 2.2              | 2.7          | 9.0              |
| DEADWOOD JUNCTION    | 4600      | 3/31/05 | 4             | .6               | 1.0          | 4.8              |
| DERR                 | 5670      | 3/28/05 | 9             | 3.4              | 7.0          | 8.5              |
| DERR SNOTEL          | 5670      | 4/01/05 | ---           | 10.7             | 11.5         | 16.4             |
| DIAMOND LAKE SNOTEL  | 5320      | 4/01/05 | 6             | .6               | 10.8         | 14.8             |
| DOG HOLLOW AM        | 4900      | 3/30/05 | 0             | .0               | .0           | .1               |

| SNOW COURSE          | ELEVATION | DATE    | SNOW DEPTH | WATER CONTENT | LAST YEAR | AVERAGE 71-00 |
|----------------------|-----------|---------|------------|---------------|-----------|---------------|
| DOOLEY MOUNTAIN      | 5430      | 3/30/05 | 17         | 6.5           | 8.8       | 7.1           |
| EAST EAGLE           | 4400      | 3/26/05 | 41         | 13.5          | 23.8      | 23.7          |
| EILERTSON SNOTEL     | 5400      | 4/01/05 | ---        | 3.4           | 5.1       | 9.6           |
| ELDORADO PASS        | 4600      | 3/30/05 | 0          | .0            | .0        | .9            |
| EMIGRANT SPGS SNOTEL | 3930      | 4/01/05 | 0          | .0            | .0        | 3.3           |
| FINLEY CORRALS AM    | 6000      | 3/30/05 | 13         | 3.9           | 12.1      | 14.6          |
| FISH CREEK SNOTEL    | 7900      | 4/01/05 | 65         | 20.8          | 30.7      | 30.5          |
| FISH LK. SNOTEL      | 4670      | 4/01/05 | ---        | 1.4           | 8.9       | 8.4           |
| FLAG PRAIRIE AM      | 4750      | 3/30/05 | 0          | .0            | .0        | 2.0           |
| FOURMILE LAKE SNOTEL | 6000      | 4/01/05 | 36         | 12.7          | 29.5      | 30.7          |
| GERBER               | 4850      | 3/30/05 | 0          | .0            | --        | .3            |
| GERBER RES SNOTEL    | 4850      | 4/01/05 | 0          | .0            | .0        | --            |
| GOLD CENTER SNOTEL   | 5340      | 4/01/05 | 2          | .2            | .0        | 8.3           |
| GOVERNMENT CORRALS   | 7450      | 4/04/05 | 46         | 14.5          | 16.0      | 16.3          |
| GRAYBACK PEAK        | 6000      | 4/04/05 | 42         | 13.1          | 26.9      | 21.1          |
| GREENPOINT SNOTEL    | 3200      | 4/01/05 | ---        | 2.3           | 22.4      | 17.5          |
| HART MOUNTAIN AM     | 6350      | 3/30/05 | 0          | .0            | .0        | .9            |
| HIGH PRAIRIE         | 6100      | 3/29/05 | 56         | 16.7          | 41.6      | 47.6          |
| HIGH RIDGE SNOTEL    | 4980      | 4/01/05 | 22         | 7.3           | 21.7      | 23.1          |
| HOGG PASS SNOTEL     | 4760      | 4/01/05 | 39         | 8.8           | 27.8      | 39.0          |
| HOLLAND MDWS SNOTEL  | 4900      | 4/01/05 | ---        | 4.1           | 22.2      | 23.1          |
| HOWARD PRAIRIE       | 4500      | 3/31/05 | 7          | 2.5           | 3.6       | 5.6           |
| HUNGRY FLAT          | 4400      | 3/30/05 | 2          | .4            | --        | 1.4           |
| IRISH-TAYLOR SNOTEL  | 5500      | 4/01/05 | 83         | 24.7          | 46.5      | 36.6          |
| JUMP OFF JOE SNOTEL  | 3400      | 4/01/05 | 9          | 2.1           | 7.5       | 10.3          |
| KING MTN #1          | 4500      | 3/30/05 | 15         | 4.1           | 3.5       | 5.2           |
| KING MTN #2 SNOTEL   | 4000      | 4/01/05 | ---        | .9            | .1        | 2.9           |
| KING MTN #3          | 3650      | 3/30/05 | 1          | .1            | .0        | .6            |
| KING MTN #4          | 3050      | 3/30/05 | 0          | .0            | .0        | .0            |
| LAKE CK R.S. SNOTEL  | 5200      | 4/01/05 | ---        | 3.4           | 8.8       | 10.5          |
| LITTLE ALPS          | 6200      | 3/31/05 | 31         | 8.2           | 14.2      | 13.2          |
| LITTLE ANTONE (ALT)  | 5000      | 3/31/05 | 12         | 3.7           | 7.3       | 7.2           |
| LITTLE MEADOW SNOTEL | 4000      | 4/01/05 | 24         | 7.0           | 29.3      | 25.7          |
| LOOKOUT BUTTE AM     | 5650      | 3/30/05 | 0          | .0            | .0        | .1            |
| LOUSE CANYON AM      | 6440      | 3/30/05 | 6          | 1.8           | 3.2       | 5.1           |
| LUCKY STRIKE SNOTEL  | 5050      | 4/01/05 | ---        | .4            | 1.5       | 9.3           |
| MADISON BUTTE SNOTEL | 5250      | 4/01/05 | 0          | .0            | .0        | 2.7           |
| MARION FORKS SNOTEL  | 2600      | 4/01/05 | 0          | .0            | 7.8       | 10.2          |
| MARKS CREEK          | 4540      | 3/28/05 | 0          | .0            | .0        | .9            |
| MARY'S PEAK REV      | 3620      | 3/29/05 | 5          | 1.4           | 2.9       | 6.3           |
| MCKENZIE SNOTEL      | 4800      | 4/01/05 | 56         | 20.2          | 43.5      | 42.9          |
| MEACHAM              | 4300      | 3/28/05 | 0          | .0            | 3.8       | 6.6           |
| MIRROR LAKE AM       | 8200      | 3/31/05 | 169        | 37.2          | 62.0      | 68.0          |
| MOSS SPRINGS SNOTEL  | 5850      | 4/01/05 | 39         | 12.8          | 26.7      | 26.0          |
| MT ASHLAND SWBK.     | 6400      | 3/28/05 | 71         | 24.2          | 35.0      | 33.4          |
| MT HOOD              | 5400      | 3/31/05 | 60         | 19.5          | 63.1      | 62.5          |
| MT HOOD TEST SNOTEL  | 5400      | 4/01/05 | 51         | 17.6          | 59.9      | 59.1          |
| MT HOWARD SNOTEL     | 7910      | 4/01/05 | 52         | 11.5          | 13.3      | 16.5          |
| MUD RIDGE SNOTEL     | 3800      | 4/01/05 | 21         | 7.5           | 26.8      | 24.3          |
| NEW CRESCENT SNOTEL  | 5400      | 4/01/05 | ---        | 2.5           | 6.3       | 8.4           |

| SNOW COURSE          | ELEVATION | DATE    | SNOW DEPTH | WATER CONTENT | LAST YEAR | AVERAGE 71-00 |
|----------------------|-----------|---------|------------|---------------|-----------|---------------|
| NEW DUTCHMAN #3      | 6400      | 3/30/05 | 91         | 27.3          | --        | 51.9          |
| NORTH FK RES SNOTEL  | 3120      | 4/01/05 | ---        | 4.4           | 26.9      | 15.7          |
| NORTH UMPQUA         | 4220      | 4/04/05 | 8          | 1.1           | 6.4       | 8.8           |
| OCHOCO MEADOWS       | 5200      | 3/28/05 | 16         | 5.1           | 8.3       | 8.9           |
| OCHOCO MEADOW SNOTEL | 5200      | 4/01/05 | ---        | 4.2           | 9.2       | 8.7           |
| OREGON CANYON AM     | 6950      | 3/30/05 | 6          | 1.9           | .0        | 4.9           |
| PAGE MTN             | 4050      | 4/01/05 | ---        | .0E           | .0        | 1.2           |
| PARK H.Q. REV        | 6550      | 3/31/05 | 119        | 35.4          | 67.0      | 61.3          |
| PATTON MEADOWS AM    | 6800      | 3/30/05 | 43         | 13.3          | 11.7      | 17.5          |
| PEAVINE RIDGE SNOTEL | 3500      | 4/01/05 | 9          | 1.7           | 16.0      | 13.0          |
| PUEBLO SUMMIT AM     | 6800      | 3/30/05 | 9          | 2.8           | .0        | --            |
| QUARTZ MTN SNOTEL    | 5320      | 4/01/05 | 0          | .0            | .0        | .5            |
| R.R. OVERPASS SNOTEL | 2750      | 4/01/05 | 0          | .0            | .0        | .1            |
| RED BUTTE #1         | 4560      | 3/29/05 | 23         | 3.6           | 16.8      | 10.4          |
| RED BUTTE #2         | 4000      | 3/29/05 | 8          | 1.1           | .0        | 5.0           |
| RED BUTTE #3         | 3500      | 3/29/05 | 7          | 1.4           | .0        | 1.1           |
| RED BUTTE #4         | 3000      | 3/29/05 | 4          | .9            | .0        | .3            |
| RED HILL SNOTEL      | 4400      | 4/01/05 | ---        | 9.3           | 49.3      | 46.1          |
| ROARING RIVER SNOTEL | 4900      | 4/01/05 | ---        | 10.0          | 33.6      | 28.9          |
| ROCK SPRINGS SNOTEL  | 5100      | 4/01/05 | ---        | .5            | .0        | 2.5           |
| ROGGER MEADOWS AM    | 6500      | 3/30/05 | 18         | 5.6           | 7.2       | 11.3          |
| SADDLE MTN SNOTEL    | 3250      | 4/01/05 | 3          | 1.0           | .0        | 6.0           |
| SALT CK FALLS SNOTEL | 4000      | 4/01/05 | ---        | 3.7           | 18.0      | 18.4          |
| SANTIAM JCT. SNOTEL  | 3750      | 4/01/05 | 12         | 2.2           | .0        | 16.0          |
| SCHNEIDER MDW SNOTEL | 5400      | 4/01/05 | 52         | 15.6          | 24.4      | 29.6          |
| SEVENMILE MARSH SNTL | 5730      | 4/01/05 | ---        | 16.0          | 38.1      | 30.5          |
| SHERMAN VALLEY AM    | 6600      | 3/30/05 | 34         | 10.2          | 8.5       | 12.0          |
| SILVER BURN          | 3720      | 3/29/05 | 13         | 2.3           | 11.5      | 8.2           |
| SILVER CREEK SNOTEL  | 4900      | 4/01/05 | ---        | 7.3           | 5.8       | 7.8           |
| SILVIES SNOTEL       | 6900      | 4/01/05 | 30         | 9.4           | 11.9      | 19.3          |
| SISKIYOU SUMMIT REV  | 4630      | 3/28/05 | 5          | 1.1           | 3.9       | 3.3           |
| SKI BOWL ROAD        | 6000      | 3/28/05 | 50         | 17.3          | 28.5      | 26.7          |
| SNOW MTN SNOTEL      | 6220      | 4/01/05 | 25         | 6.6           | 11.5      | 14.0          |
| SF BULL RUN SNOTEL   | 2630      | 4/01/05 | ---        | .0            | .0        | --            |
| STANDLEY AM          | 7400      | 3/31/05 | 76         | 16.7          | 34.8      | 33.3          |
| STARR RIDGE SNOTEL   | 5150      | 4/01/05 | 0          | .0            | .0        | 3.4           |
| STRAWBERRY SNOTEL    | 5760      | 4/01/05 | ---        | .4            | .0        | 4.1           |
| SUMMER RIM SNOTEL    | 7100      | 4/01/05 | 49         | 15.6          | 16.0      | 19.0          |
| SUMMIT LAKE SNOTEL   | 5600      | 4/01/05 | ---        | 24.2          | 45.9      | 38.1          |
| SYCAN FLAT AM        | 5500      | 3/30/05 | 21         | 7.8           | .0        | 3.2           |
| TANGENT              | 5400      | 3/30/05 | 25         | 6.0           | 19.0      | 19.6          |
| TAYLOR BUTTE SNOTEL  | 5100      | 4/01/05 | ---        | 4.4           | 2.9       | 2.8           |
| TAYLOR GREEN SNOTEL  | 5740      | 4/01/05 | 32         | 12.5          | 17.9      | 21.7          |
| THREE CK MEAD SNOTEL | 5650      | 4/01/05 | ---        | 7.1           | 22.2      | 19.7          |
| TIPTON SNOTEL        | 5100      | 4/01/05 | 23         | 7.8           | 14.4      | 14.3          |
| TOLLGATE             | 5070      | 3/28/05 | 28         | 9.1           | 38.8      | 26.8          |
| TRAP CREEK           | 3800      | 4/04/05 | 9          | 1.7           | 3.2       | 7.3           |
| TROUT CREEK AM       | 7800      | 3/30/05 | 39         | 12.1          | 10.4      | 12.1          |
| TV RIDGE #2 AM       | 7000      | 3/31/05 | 36         | 7.9           | 15.2      | 20.2          |
| V LAKE AM            | 6600      | 3/30/05 | 4          | 1.4           | 8.0       | 8.0           |
| WEST EAGLE MEADOWS   | 5500      | 3/31/05 | 61         | 20.7          | 30.0      | 28.1          |
| WOLF CREEK SNOTEL    | 5700      | 4/01/05 | ---        | 7.3           | 16.7      | 16.7          |

| SNOW COURSE          |        | ELEVATION | DATE    | SNOW DEPTH | WATER CONTENT | LAST YEAR | AVERAGE 71-00 |
|----------------------|--------|-----------|---------|------------|---------------|-----------|---------------|
| <b>California</b>    |        |           |         |            |               |           |               |
| ADIN MOUNTAIN (d)    |        | 6350      | 3/30/05 | 33         | 10.7          | 10.2      | 12.5          |
| ADIN MTN SNOTEL      |        | 6350      | 4/01/05 | 28         | 10.6          | 8.9       | 13.2          |
| BARBER CREEK         |        | 6500      | 3/31/05 | 26         | 7.8           | 8.1       | 11.0          |
| BLUE LAKE RANCH      |        | 6800      | 3/30/05 | 18         | 5.7           | 3.7       | 10.4          |
| CEDAR PASS SNOTEL    |        | 7100      | 4/01/05 | ---        | 18.1          | 17.4      | 19.3          |
| CROWDER FLAT AM      |        | 5200      | 3/30/05 | 0          | .0            | .0        | .4            |
| CROWDER FLAT SNOTEL  |        | 5200      | 4/01/05 | ---        | .0            | .0        | --            |
| DISMAL SWAMP SNOTEL  |        | 7000      | 4/01/05 | ---        | 27.1          | 28.9      | 28.9          |
| STATE LINE           | AM     | 5750      | 3/30/05 | 2          | .7            | .0        | 3.4           |
| <b>Idaho</b>         |        |           |         |            |               |           |               |
| BATTLE CREEK         | AM     | 5720      | 3/30/05 | 8          | 2.4           | .0        | 1.0           |
| BULL BASIN           | AM     | 5460      | 3/30/05 | 3          | .9            | .0        | .3            |
| MUD FLAT             | SNOTEL | 5730      | 4/01/05 | 2          | .8            | 1.2       | 4.4           |
| RED CANYON           | AM     | 6650      | 3/30/05 | 9          | 3.3           | 2.4       | 5.1           |
| SILVER CITY          |        | 6400      | 3/29/05 | 36         | 12.4          | 19.2      | 15.8          |
| SOUTH MTN            | SNOTEL | 6500      | 4/01/05 | 31         | 8.7           | 11.5      | 19.2          |
| SUCCOR CREEK         | AM     | 6100      | 3/30/05 | 11         | 3.3           | 6.5       | 7.8           |
| VAUGHT RANCH         | AM     | 5830      | 3/30/05 | 4          | 1.2           | .0        | 1.1           |
| <b>Nevada</b>        |        |           |         |            |               |           |               |
| BALD MOUNTAIN        | AM     | 6720      | 3/30/05 | 0          | .0            | .0        | 2.5           |
| BEAR CREEK SNOTEL    |        | 7800      | 4/01/05 | ---        | 18.4          | 14.0      | 21.6          |
| BIG BEND SNOTEL      |        | 6700      | 4/01/05 | 21         | 7.7           | 3.6       | 8.3           |
| BUCKSKIN,L SNOTEL    |        | 6700      | 4/01/05 | 32         | 10.3          | 8.6       | 8.5           |
| COLUMBIA BASIN       | AM     | 6650      | 3/30/05 | 11         | 2.1           | 8.5       | 6.8           |
| DISASTER PEAK SNOTEL |        | 6500      | 4/01/05 | 4          | 1.7           | .0        | 7.4           |
| FAWN CREEK SNOTEL    |        | 7050      | 4/01/05 | 56         | 15.6          | 14.0      | 18.7          |
| FRY CANYON           |        | 6700      | 3/30/05 | 19         | 4.8           | .0        | 5.7           |
| GOLD CREEK           |        | 6600      | 3/30/05 | 13         | 2.9           | .0        | 3.9           |
| GRANITE PEAK SNOTEL  |        | 7800      | 4/01/05 | 66         | 20.1          | 19.7      | 25.1          |
| JACK CREEK, LOWER(d) |        | 6800      | 3/30/05 | 8          | 1.6           | .0        | 2.3           |
| JACK CREEK, U SNOTEL |        | 7280      | 4/01/05 | 56         | 14.9          | 19.4      | 19.9          |
| LAMANCE CREEK SNOTEL |        | 6000      | 4/01/05 | 18         | 6.0           | 5.4       | 10.1          |
| LAUREL DRAW SNOTEL   |        | 6700      | 4/01/05 | 27         | 8.8           | 5.1       | 8.8           |
| LITTLE BALLY MTN.    | AM     | 6000      | 3/30/05 | 7          | 2.1           | .0        | 2.9           |
| MERRIT MOUNTAIN      | AM     | 7000      | 3/30/05 | 12         | 3.0           | 5.6       | 5.8           |
| MIDAS                | (d)    | 7200      | 3/30/05 | 3          | .6            | .0        | 1.7           |
| QUINN RIDGE          | AM     | 6300      | 3/30/05 | 0          | .0            | .0        | .8            |
| SEVENTYSIX CK SNOTEL |        | 7100      | 4/01/05 | 32         | 12.5          | 7.3       | 10.7          |
| STAG MOUNTAIN        | AM     | 7700      | 3/30/05 | 27         | 6.7           | .0        | 5.7           |
| TAYLOR CANYON SNOTEL |        | 6200      | 4/01/05 | 16         | 5.1           | .0        | 2.9           |
| TOE JAM              | AM     | 7700      | 3/30/05 | 34         | 10.5          | 10.2      | 9.4           |
| TREMEWAN RANCH       |        | 5700      | 3/30/05 | 5          | 1.7           | .0        | .1            |

(d) denotes discontinued site.