

USDA United States
Department of
Agriculture

**Natural
Resources
Conservation
Service**

Wyoming Basin Outlook Report May 1, 2001



Basin Outlook Reports and Federal - State - Private Cooperative Snow Surveys

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How forecasts are made

Most of the annual streamflow in the western United States originates as snowfall that has accumulated in the mountains during the winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Measurements of snow water equivalent at selected manual snow courses and automated SNOTEL sites, along with precipitation, antecedent streamflow, and indices of the El Niño / Southern Oscillation are used in computerized statistical and simulation models to prepare runoff forecasts. These forecasts are coordinated between hydrologists in the Natural Resources Conservation Service and the National Weather Service. Unless otherwise specified, all forecasts are for flows that would occur naturally without any upstream influences.

Forecasts of any kind, of course, are not perfect. Streamflow forecast uncertainty arises from three primary sources: (1) uncertain knowledge of future weather conditions, (2) uncertainty in the forecasting procedure, and (3) errors in the data. The forecast, therefore, must be interpreted not as a single value but rather as a range of values with specific probabilities of occurrence. The middle of the range is expressed by the 50% exceedance probability forecast, for which there is a 50% chance that the actual flow will be either above or below, the predicted value. To describe the expected range around this 50% value, four other forecasts are provided, two smaller values (90% and 70% exceedance probability) and two larger values (30%, and 10% exceedance probability). For example, there is a 90% chance that the actual flow will be more than the 90% exceedance probability forecast. The others can be interpreted similarly.

The wider the spread among these values, the more uncertain the forecast. As the season progresses, forecasts become more accurate, primarily because a greater portion of the future weather conditions become known; this is reflected by a narrowing of the range around the 50% exceedance probability forecast. Users should take this uncertainty into consideration when making their operational decisions. If users anticipate receiving a lesser supply of water, or if they wish to increase their chances of having an adequate supply of water for their operations, they may want to base their decisions on the 90% or 70% exceedance probability forecasts, or something in between. On the other hand, if users are concerned about receiving too much water (for example, threat of flooding), they may want to base their decisions on the 30% or 10% exceedance probability forecasts, or something in between. Regardless of the forecast value users choose for operations, they should be prepared to deal with either more or less water. (Users should remember that even if the 90% exceedance probability forecast is used, there is still a 10% chance of receiving less than this amount.) By using the exceedance probability information, users can easily determine the chances of receiving more or less water.

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Wyoming Water Supply Outlook Report

General

Generally, snow water equivalent (SWE) across the state is much below normal for this time of the year. SWE averages for the State are about 61 percent of normal for this time of the year. Northwest portion of the State is 50 of percent normal. Northeast Wyoming is 59 of percent of normal, and the southeast part of the State is 75 percent of average. Southwestern Wyoming is 59 percent of average for this time of the year.

Precipitation for April was variable across for the State. Year-to-date precipitation is generally well below average for the State. Precipitation ranged from 50 percent above average to about 40 percent below average, with about 2/3 of the basins being above the April average. Reservoir levels vary from about 46 percent of average to 156 percent of average, the exception being Eden Reservoir, which is too low to measure. Generally, the larger capacity reservoirs are above average storage. Forecast runoff varies from 16 to 87 percent of average. The mean of all the forecast points in the State is about 55 percent of average.

Snowpack

SWE is below to much below average for the entire State. SWE in the northwestern portion of the State is about 50 percent of average (79 percent of last year). Northeast Wyoming SWE is currently about 59 percent of average (79 percent of last year). The southeast portion is currently about 75 percent of average SWE (100 percent of last year). And the southwest is about 59 percent of average (95 percent of last year).

Precipitation

April precipitation was a mixed bag across the State. The Yellowstone and Madison River Basin received 154 percent of average precipitation during April. The Belle Fourche River Basin came in at only 53 percent of average for the month, but this was based solely on one SnoTel station. The following table displays the major river basins and their departure from normal for this month.

| Basin | Departure from normal | Basin | Departure from normal |
|--------------------------|-----------------------|--------------------------|-----------------------|
| Snake River | +19% | Upper North Platte River | +37% |
| Yellowstone & Madison | +54% | Lower North Platte | +25% |
| Wind River | -13% | Little Snake River | +20% |
| Big Horn | -12% | Upper Green River | +11% |
| Shoshone & Clarks Fork | +04% | Lower Green River | +08% |
| Powder & Tongue River | -15% | Upper Bear River | +09% |
| Belle Fourche & Cheyenne | -47% | | |

Streams

Stream flow yield is expected to be below average across the State, and well below average in the northern half of the State. Most probable yield for the State is forecast to be about 56 percent of average (varies from 16 to 71 percent of average). The northwest part of the State is expected to yield about 56 percent of normal -- yield estimates vary from 37 to 72 percent of normal through the northwest region of the State. Yield from the northeast portion of Wyoming will be below average (about 54 percent of average) -- yield estimates vary from 32 to 75 percent of average for the various forecast points. The southeast portion of the state will be about 59 percent of normal -- yield estimates range from 16 to 87 percent of normal. The southwest portion of Wyoming

yield will be much below normal (about 55 percent of average), and estimates vary from 20 to 78 percent of average.

Reservoirs

The following reservoir data is based on the usable capacity of each reservoir. Although several reservoirs did not report, reservoir storage for those reporting is generally near or above average for about 2/3 of the listed reservoirs. See following table for further information about reservoir storage.

Major Reservoirs in Wyoming

B A S I N W I D E
R E S E R V O I R S U M M A R Y
FOR THE END OF A P R I L 2 0 0 1

| BASIN AREA RESERVOIR | CURRENT AS % CAPACITY | LAST YR AS % CAPACITY | AVERAGE AS % CAPACITY | CURRENT AS % AVERAGE | CURRENT AS % LAST YR |
|-------------------------|--------------------------|--------------------------|--------------------------|-------------------------|-------------------------|
| ALCOVA | 97 | 107 | 98 | 99 | 90 |
| ANGOSTURA | 95 | 99 | 93 | 102 | 96 |
| BELLE FOURCHE | 102 | 106 | 82 | 124 | 95 |
| BIG SANDY | 29 | 64 | 62 | 46 | 45 |
| BIGHORN LAKE | 62 | 65 | 58 | 107 | 96 |
| BOYSEN | 73 | 84 | 84 | 87 | 87 |
| BUFFALO BILL | 54 | 67 | 52 | 105 | 82 |
| BULL LAKE | 41 | 62 | 53 | 77 | 66 |
| DEERFIELD | 99 | 100 | 89 | 110 | 99 |
| EDEN | | | NO REPORT | | |
| ENNIS LAKE | 76 | 78 | 86 | 88 | 97 |
| FLAMING GORGE | | | AVERAGE NOT ESTABLISHED | | |
| FONTENELLE | 34 | 34 | 47 | 72 | 99 |
| GLENDO | 92 | 102 | 90 | 102 | 90 |
| GRASSY LAKE | 88 | 86 | 77 | 115 | 103 |
| GUERNSEY | 58 | 79 | 72 | 81 | 74 |
| HEBGEN LAKE | 77 | 81 | 65 | 118 | 95 |
| JACKSON LAKE | 78 | 85 | 54 | 145 | 93 |
| KEYHOLE | 88 | 91 | 57 | 156 | 97 |
| PACTOLA | 98 | 100 | 87 | 113 | 98 |
| PALISADES | 61 | 83 | 68 | 90 | 74 |
| PATHFINDER | 76 | 98 | 60 | 127 | 78 |
| PILOT BUTTE | 78 | 79 | 95 | 82 | 99 |
| SEMINOE | 65 | 74 | 39 | 169 | 88 |
| SHADEHILL | 98 | 69 | 80 | 123 | 143 |
| TONGUE RIVER | 56 | 52 | 46 | 122 | 108 |
| VIVA NAUGHTON RES | | | NO REPORT | | |
| WHEATLAND #2 | 54 | 78 | 56 | 97 | 69 |
| WOODRUFF NARROWS | | | AVERAGE NOT ESTABLISHED | | |
| <hr/> | | | | | |
| GLENDO PROJECT USERS | 94 | 94 | 70 | 134 | 100 |
| KENDRICK PROJECT | 80 | 87 | 67 | 119 | 92 |
| NORTH PLATTE PROJ | 74 | 101 | 74 | 100 | 73 |

Basin Summary of Snow Course Data

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

MAY 2001

| SNOW COURSE | ELEVATION | DATE | SNOW DEPTH | WATER CONTENT | LAST YEAR | AVERAGE 1961-90 |
|---|-----------|---------|---------------|------------------|--------------|--------------------|
| ----- | | | | | | |
| WYOMING Snow Course and SNOTEL Stations | | | | | | |
| ALBANY | 9400 | 4/26/01 | 31 | 9.6 | 7.6 | 12.8 |
| ASTER CREEK | 7750 | | | | --- | --- |
| BALD MOUNTAIN SNOTEL | 9380 | 5/01/01 | --- | 16.7 | 22.1 | 24.1 |
| BASE CAMP SNOTEL | 7030 | 5/01/01 | --- | .0 | 1.0 | 10.7 |
| BATTLE MTN. SNOTEL | 7440 | 5/01/01 | --- | .0 | .0 | 4.8 |
| BEARLODGE DIVIDE | 4680 | 4/30/01 | 0 | .0 | .0 | .8 |
| BEARTOOTH LK. SNOTEL | 9280 | 5/01/01 | --- | 13.5 | 22.8 | 26.0 |
| BEAR TRAP SNOTEL | 8200 | 5/01/01 | --- | .0 | .0 | 4.2 |
| BIG GOOSE | 7760 | 4/26/01 | 18 | 4.8 | 5.5 | 8.3 |
| BIG GOOSE SNOTEL | 7760 | 5/01/01 | --- | 4.4 | 6.5 | --- |
| BIG PARK | 8620 | 4/26/01 | 38 | 12.8 | 14.9 | 20.5 |
| BIG SANDY SNOTEL | 9080 | 5/01/01 | --- | 8.8 | 8.1 | 13.9 |
| BLACKWATER SNOTEL | 9780 | 5/01/01 | --- | 17.9 | 19.6 | 25.7 |
| BLIND BULL SNOTEL | 8900 | 5/01/01 | 44 | 15.4 | 22.5 | 22.7 |
| BLIND PARK PILLOW | 6870 | 5/01/01 | --- | .0 | .0 | 9.6 |
| BLUE RIDGE | 9620 | 5/01/01 | --- | 4.0 | --- | 12.7 |
| BONE SPGS. SNOTEL | 9350 | 5/01/01 | --- | 12.3 | 16.6 | 18.4 |
| BOXELDER | 7280 | 4/27/01 | 20 | 6.8 | 4.9 | 6.4 |
| BROOKLYN LK. SNOTEL | 10220 | 5/01/01 | --- | 21.2 | 16.3 | 28.9 |
| BRYAN FLAT | 6420 | 4/30/01 | 0 | .0 | .0 | 2.3 |
| BUCK CREEK | 7960 | 4/27/01 | 27 | 9.8 | 8.4 | 10.0 |
| BURGESS JCT. SNOTEL | 7880 | 5/01/01 | --- | 8.2 | 12.3 | 13.5 |
| BURROUGHS CRK SNOTEL | 8750 | 5/01/01 | --- | 8.1 | 10.6 | 12.9 |
| CANYON SNOTEL | 8090 | 5/01/01 | --- | 9.1 | 8.7 | 10.9 |
| CARTER MOUNTAIN | 7950 | 4/30/01 | 0 | .0 | .2 | 6.0 |
| CASPER MTN. SNOTEL | 7850 | 5/01/01 | --- | 8.8 | 12.9 | 17.8 |
| CASTLE CREEK | 8400 | 4/27/01 | 0 | .0 | .7 | 2.0 |
| CCC CAMP | 7000 | 4/30/01 | 1 | .3 | 3.9 | 7.9 |
| CHALK CK #1 SNOTEL | 9100 | 5/01/01 | 44 | 14.5 | 18.2 | 22.8 |
| CHALK CK #2 SNOTEL | 8200 | 5/01/01 | 23 | 4.7 | 5.0 | 9.8 |
| CLOUD PEAK SNOTEL | 9850 | 5/01/01 | --- | 10.0 | 17.1 | 17.7 |
| COLD SPRINGS SNOTEL | 9630 | 5/01/01 | --- | .0 | .0 | 6.8 |
| COTTONWOOD CR SNOTEL | 7700 | 5/01/01 | --- | 11.7 | 14.0 | 20.0 |
| DARBY CANYON | 8250 | 5/02/01 | 38 | 13.3 | 16.9 | 23.9 |
| DEER PARK SNOTEL | 9700 | 5/01/01 | --- | 11.3 | 13.5 | --- |
| DITCH CREEK | 6870 | 4/26/01 | 13 | 2.8 | --- | --- |
| DIVIDE PEAK SNOTEL | 8860 | 5/01/01 | --- | 12.0 | 10.7 | 19.3 |
| DOMELAKE SNOTEL | 8880 | 5/01/01 | --- | 8.0 | 9.6 | 15.0 |
| DU NOIR | 8760 | 4/26/01 | 14 | 4.7 | .8 | 6.8 |
| EAST RIM DIV SNOTEL | 7930 | 5/01/01 | --- | 6.4 | 8.3 | 14.8 |
| ELBO RANCH | 7100 | | | | 3.6 | 9.0 |
| ELKHART PARK SNOTEL | 9400 | 5/01/01 | --- | 11.1 | 8.1 | 14.0 |
| EVENING STAR SNOTEL | 9200 | 5/01/01 | --- | 15.9 | 22.4 | 30.8 |

| SNOW COURSE | ELEVATION | DATE | SNOW DEPTH | WATER CONTENT | LAST YEAR | AVERAGE 1961-90 |
|----------------------|-----------|---------|------------|---------------|-----------|-----------------|
| FOUR MILE MEADOWS | 7860 | | | | --- | --- |
| FOXPAK | 9060 | 4/26/01 | 20 | 7.2 | .0 | 5.4 |
| GEYSER CREEK | 8500 | 4/26/01 | 11 | 3.9 | --- | 5.4 |
| GLADE CREEK | 7040 | 4/30/01 | 17 | 7.5 | 10.5 | 21.0 |
| GRANITE CRK SNOTEL | 6770 | 5/01/01 | --- | 6.9 | 3.8 | 12.9 |
| GRANNIER MEADOWS | 8860 | 5/01/01 | --- | 6.1 | 10.8 | 15.1 |
| GRASSY LAKE SNOTEL | 7270 | 5/01/01 | --- | 18.0 | 20.5 | 33.9 |
| GRAVE SPRINGS SNOTEL | 8550 | 5/01/01 | --- | 4.9 | 6.2 | 11.6 |
| GREYS BOUNDARY | 5720 | 4/29/01 | 0 | .0 | .0 | 2.6 |
| GROS VENTRE SNOTEL | 8750 | 5/01/01 | --- | 8.9 | 7.9 | 13.9 |
| GROVER PARK DIVIDE | 7000 | 4/30/01 | 0 | .0 | .3 | 7.9 |
| HAIRPIN TURN | 9480 | 4/26/01 | 43 | 14.0 | 8.0 | 16.6 |
| HANSEN S.M. SNOTEL | 8360 | 5/01/01 | --- | .2 | .5 | 6.9 |
| HAMS FORK SNOTEL | 7840 | 5/01/01 | --- | .0 | .0 | 5.7 |
| HASKINS CREEK | 8980 | 4/27/01 | 71 | 29.2 | 30.0 | 32.6 |
| HOBBS PARK SNOTEL | 10100 | 5/01/01 | --- | 6.3 | 9.4 | 18.0 |
| HUCKLEBERRY DIVIDE | 7300 | | | | --- | --- |
| INDIAN CREEK SNOTEL | 9430 | 5/01/01 | --- | 16.1 | 20.1 | 28.9 |
| JACKPINE CREEK | 7350 | 5/02/01 | 20 | 8.7 | 8.8 | 19.8 |
| KELLEY R.S. SNOTEL | 8180 | 5/01/01 | --- | 6.0 | 7.4 | 15.0 |
| KENDALL R.S. SNOTEL | 7740 | 5/01/01 | --- | 1.5 | 3.0 | 10.6 |
| KIRWIN SNOTEL | 9550 | 5/01/01 | --- | 5.5 | 9.0 | 11.7 |
| LA BONTE | 8450 | 4/30/01 | 0 | .0 | .0 | 1.8 |
| LAKE CAMP | 7780 | 4/29/01 | 18 | 5.4 | 7.0 | 7.2 |
| LA PRELE SNOTEL | 8380 | 5/01/01 | --- | 4.7 | 5.9 | 6.3 |
| LARSEN CREEK | 9020 | 4/26/01 | 23 | 8.0 | 9.8 | 11.2 |
| LEWIS LAKE SNOTEL | 7850 | 5/01/01 | --- | 15.9 | 19.7 | 34.4 |
| LEWIS LAKE DIVIDE | 7850 | 4/30/01 | 51 | 22.5 | 33.2 | 42.0 |
| LIBBY LODGE | 8750 | 4/26/01 | 24 | 8.5 | .8 | 9.0 |
| LITTLE BEAR RUN | 6240 | 5/01/01 | 0 | .0 | --- | --- |
| LITTLE WARM SNOTEL | 9370 | 5/01/01 | --- | 5.0 | 7.2 | 10.4 |
| LOOMIS PARK SNOTEL | 8240 | 5/01/01 | --- | 6.9 | 8.6 | 15.1 |
| LUPINE CREEK | 7380 | 4/27/01 | 0 | .0 | .0 | 6.6 |
| MALLO | 6420 | 4/30/01 | 0 | .0 | --- | .0 |
| MARQUETTE SNOTEL | 8760 | 5/01/01 | --- | 2.2 | 6.6 | 8.6 |
| MEDICINE LODGE LAKES | 9340 | 4/26/01 | 38 | 10.6 | 10.5 | 12.5 |
| MIDDLE FORK | 7420 | 4/27/01 | 10 | 3.0 | 1.2 | 5.0 |
| MIDDLE POWDER SNOTEL | 7760 | 5/01/01 | --- | 6.5 | 10.0 | 14.8 |
| MORAN | 6750 | | | | --- | --- |
| MOSS LAKE | 9800 | 4/27/01 | 58 | 21.0 | 18.3 | 26.9 |
| MOUNT TOM | 5560 | | | | --- | .1 |
| NEW FORK SNOTEL | 8340 | 5/01/01 | --- | 3.8 | 3.2 | 9.1 |
| NORRIS BASIN | 7500 | 5/28/01 | 16 | 6.2 | .0 | 7.5 |
| NORTH BARRETT CREEK | 9400 | 4/27/01 | 58 | 21.9 | 20.8 | 22.6 |
| NORTH FRENCH SNOTEL | 10130 | 5/01/01 | --- | 29.7 | 25.8 | 29.4 |
| NORTH RAPID CK PILL. | 6130 | 5/01/01 | --- | .5 | 2.3 | --- |
| NORTH TONGUE | 8450 | 4/26/01 | 31 | 8.6 | 11.1 | 13.9 |
| OLD BATTLE SNOTEL | 9920 | 5/01/01 | --- | 29.6 | 27.8 | 38.2 |
| OLD FAITHFUL | 7400 | 4/30/01 | 0 | .0 | 3.2 | 10.0 |
| ONION GULCH | 8780 | 4/26/01 | 28 | 6.2 | 5.6 | 8.9 |
| OWL CREEK SNOTEL | 8980 | 5/01/01 | --- | .0 | .0 | 3.4 |
| PARKERS PEAK SNOTEL | 9400 | 5/01/01 | --- | 15.6 | 17.9 | 23.7 |

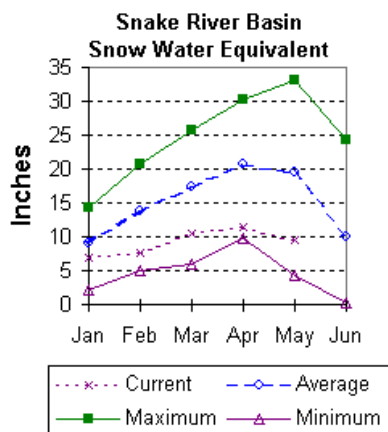
| SNOW COURSE | ELEVATION | DATE | SNOW DEPTH | WATER CONTENT | LAST YEAR | AVERAGE 1961-90 |
|----------------------|-----------|---------|------------|---------------|-----------|-----------------|
| PHILLIPS BENCH SNOT. | 8200 | 5/01/01 | --- | 17.0 | 19.7 | 29.5 |
| POCKET CREEK | 9350 | 4/26/01 | 38 | 9.8 | --- | 13.3 |
| POISON MEADOWS | 8500 | | | | --- | 29.9 |
| POLE MOUNTAIN | 8700 | 4/26/01 | 19 | 6.4 | 1.2 | 4.1 |
| POWDER RVR.PASS SNOT | 9480 | 5/01/01 | --- | 5.4 | 6.9 | 10.5 |
| PURGATORY GULCH | 8970 | 4/27/01 | 35 | 13.4 | 8.7 | 10.3 |
| RANGER CREEK | 8120 | 4/26/01 | 24 | 6.1 | 6.6 | 8.1 |
| RENO HILL SNOTEL | 8500 | 5/01/01 | --- | 12.7 | 12.2 | 13.4 |
| REUTER CANYON | 6280 | 4/30/01 | 3 | .8 | .0 | 4.5 |
| ROWDY CREEK | 8300 | 4/30/01 | 32 | 11.4 | 16.6 | 20.6 |
| RYAN PARK | 8400 | 4/27/01 | 16 | 6.7 | 2.1 | 7.9 |
| SALT RIVER SNOTEL | 7600 | 5/01/01 | --- | 2.0 | 4.3 | 10.8 |
| SAND LAKE SNOTEL | 10050 | 5/01/01 | --- | 30.5 | 25.3 | 37.2 |
| SANDSTONE SNOTEL | 8150 | 5/01/01 | --- | 4.2 | 2.4 | 9.8 |
| SAWMILL DIVIDE | 9260 | 4/26/01 | 39 | 10.6 | 14.1 | 15.6 |
| SHELL CREEK SNOTEL | 9580 | 5/01/01 | --- | 12.4 | 15.8 | 17.0 |
| SHERIDAN R.S. | 7750 | 4/26/01 | 5 | 1.5 | 1.4 | 3.2 |
| SNAKE RIVER STATION | 6920 | | | | --- | --- |
| SNAKE RV STA SNOTEL | 6920 | 5/01/01 | --- | 1.8 | .6 | 16.4 |
| SNIDER BASIN SNOTEL | 8060 | 5/01/01 | --- | 5.9 | 6.9 | 13.0 |
| SNOW KING MTN | 7660 | | | | 2.6 | 12.4 |
| SOLDIER PARK | 8780 | 4/26/01 | 21 | 1.1 | .0 | 6.9 |
| SOUR DOUGH | 8460 | 4/26/01 | 25 | 6.6 | 4.2 | 6.9 |
| SOUTH BRUSH SNOTEL | 8440 | 5/01/01 | --- | 4.5 | 3.0 | 10.6 |
| SOUTH PASS SNOTEL | 9040 | 5/01/01 | --- | 8.4 | 12.0 | 18.1 |
| SPRING CRK. SNOTEL | 9000 | 5/01/01 | --- | 18.8 | 20.1 | 29.6 |
| ST LAWRENCE ALT SNOT | 8620 | 5/01/01 | --- | .0 | .0 | 5.4 |
| SUCKER CREEK SNOTEL | 8880 | 5/01/01 | --- | 6.7 | 11.6 | 13.8 |
| SYLVAN LAKE SNOTEL | 8420 | 5/01/01 | --- | 14.8 | 16.3 | 23.8 |
| SYLVAN ROAD SNOTEL | 7120 | 5/01/01 | --- | 5.3 | 4.2 | 7.9 |
| T CROSS RANCH | 7900 | 4/26/01 | 4 | 1.2 | .3 | 3.6 |
| TETON PASS W.S. | 7740 | 5/01/01 | 37 | 14.7 | 18.2 | 27.1 |
| THUMB DIVIDE SNOTEL | 7980 | 5/01/01 | --- | 3.6 | 5.4 | 15.1 |
| THUMB DIVIDE | 7980 | | | | --- | --- |
| TIE CREEK SNOTEL | 6870 | 5/01/01 | --- | 2.3 | .4 | --- |
| TIMBER CREEK SNOTEL | 7950 | 5/01/01 | --- | .0 | .1 | 6.0 |
| TOGWOTEE PASS SNOTEL | 9580 | 5/01/01 | 52 | 17.5 | 23.3 | 28.3 |
| TOWNSEND CRK SNOTEL | 8700 | 5/01/01 | --- | 1.1 | 3.1 | 9.5 |
| TRIPLE PEAK SNOTEL | 8500 | 5/01/01 | --- | 12.0 | 12.0 | 25.0 |
| TURPIN MEADOWS | 6900 | | | | --- | --- |
| TWO OCEAN SNOTEL | 9240 | 5/01/01 | --- | 22.0 | 24.5 | 29.2 |
| TYRELL RANGER STA. | 8300 | 4/26/01 | 21 | 3.2 | .0 | 7.5 |
| UPPER SPEARFISH | 6500 | | | | --- | 7.0 |
| WARREN PEAK SNOTEL | 6520 | | | | 5.5 | 9.6 |
| WEBBER SPRING SNOTEL | 9250 | 5/01/01 | --- | 16.2 | 16.1 | 26.0 |
| WHISKEY PARK SNOTEL | 8950 | 5/01/01 | --- | 23.1 | 23.3 | 29.6 |
| WILLOW CREEK SNOTEL | 8450 | 5/01/01 | --- | 14.3 | 20.6 | 31.9 |
| WINDY PEAK SNOTEL | 7900 | 5/01/01 | --- | 3.7 | 4.2 | 7.9 |
| WOLVERINE SNOTEL | 7650 | 5/01/01 | --- | .1 | .0 | 8.1 |
| WOOD ROCK G.S. | 8440 | 4/26/01 | 26 | 6.5 | 9.5 | 12.2 |
| YOUNTS PEAK SNOTEL | 8350 | 5/01/01 | --- | 9.5 | 15.0 | 18.3 |

(d) Denotes discontinued site.

Snake River Basin (1)

Snow

Percentage of average snow water equivalent (SWE) for each drainage in the basin is: Snake above Jackson Lake -- 46 percent (85% of last year at this time), Pacific Creek -- 55 percent (86% of last year at this time), Gros Ventre River -- 63 percent (84% of last year at this time), Hoback River -- 54 percent (87% of last year at this time), Greys River -- 54 percent (80% of last year at this time), Salt River -- 36 percent (66% of last year at this time). Snake River Basin above Palisades is 48 percent of average (81% of last year at this time). See the Basin Summary of Snow Courses at the beginning of this report for a detailed listing of snow course information.



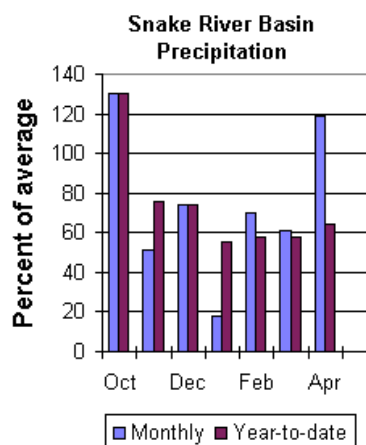
Precipitation.

Precipitation across the basin was much below average for last month. Monthly precipitation, for the basin, was 150 percent of average (162 percent of last year). April percentages range from 83 to 177 percent of average. Water-year-to-date precipitation is 76 percent of normal for the Snake River basin (85 percent of last year at this time). Year-to-date percentages range from 58 to 102 percent of average.

Reservoir.

Current usable storage compared to average for the three reservoirs in the basin is

as follows: Grassy Lake —115 percent of average (13,400 acre feet compared to 13,000 last year), Jackson lake — 145 percent of average (663,400 acre feet compared to 716,600 acre feet last year), and Palisades Reservoir — 90 percent of average (858,800 acre feet compared to 1,161,100 acre feet last year).



Streamflow.

The most probable, 50 percent chance May through September runoff yield forecast is much below average for the basin. The Snake near Moran is expected to yield 475,000 acre-feet (58 percent of normal). Yield from the Snake River above Palisades Reservoir is estimated to be 1,585,000 acre-feet (64 percent of normal). The 50 percent chance yield near Heise is expected to be 2,055,000 acre-feet (60 percent of normal). Pacific Creek at Moran is expected to yield about 88,000 acre-feet (56 percent of average). Greys River above Palisades Reservoir is estimated to yield 182,000 acre-feet (52 percent of normal). Salt River near Etna is estimated to have a yield of 156,000 acre-feet (46 percent of normal).

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SNAKE RIVER BASIN
Streamflow Forecasts - May 1, 2001

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| Forecast Point | Forecast Period | <<----- Drier ----- Future Conditions ----- Wetter ----->> | | | | 30-Yr Avg. (1000AF) | | |
|----------------------------------|-----------------|--|-----------------|---------------------------------|----------|------------------------|-----------------|-----------------|
| | | Chance Of Exceeding * | | | | | | |
| | | 90% (1000AF) | 70% (1000AF) | 50% (Most Probable) (1000AF) | (% AVG.) | | 30% (1000AF) | 10% (1000AF) |
| SNAKE near Moran (1,2) | MAY-SEP | 348 | 435 | 475 | 58 | 515 | 602 | 814 |
| SNAKE above Palisades (2) | MAY-SEP | 1349 | 1490 | 1585 | 64 | 1680 | 1821 | 2475 |
| PALISADES RESERVOIR INFLOW (1,2) | MAY-SEP | 1592 | 1910 | 2055 | 60 | 2200 | 2518 | 3428 |
| SNAKE near Heise (2) | MAY-SEP | 1811 | 2042 | 2200 | 60 | 2358 | 2589 | 3672 |
| PACIFIC CREEK at Moran | MAY-SEP | 60 | 77 | 88 | 56 | 99 | 116 | 157 |
| GREYS above Palisades | MAY-SEP | 142 | 166 | 182 | 52 | 198 | 222 | 350 |
| SALT near Etna | MAY-SEP | 93 | 131 | 156 | 46 | 181 | 219 | 339 |

| SNAKE RIVER BASIN Reservoir Storage (1000 AF) - End of April | | | | | SNAKE RIVER BASIN Watershed Snowpack Analysis - May 1, 2001 | | | |
|---|-----------------|------------------------|-----------|-------|--|----------------------|-------------------|---------|
| Reservoir | Usable Capacity | *** Usable Storage *** | | | Watershed | Number of Data Sites | This Year as % of | |
| | | This Year | Last Year | Avg | | | Last Yr | Average |
| GRASSY LAKE | 15.2 | 13.4 | 13.0 | 11.7 | SNAKE above Jackson Lake | 6 | 85 | 46 |
| JACKSON LAKE | 847.0 | 663.4 | 716.6 | 456.5 | PACIFIC CREEK | 2 | 86 | 55 |
| PALISADES | 1400.0 | 858.8 | 1161.1 | 950.0 | GROS VENTRE RIVER | 2 | 84 | 63 |
| | | | | | HOBACK RIVER | 6 | 91 | 57 |
| | | | | | GREYS RIVER | 5 | 80 | 54 |
| | | | | | SALT RIVER | 5 | 66 | 36 |
| | | | | | SNAKE above Palisades | 23 | 82 | 48 |

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

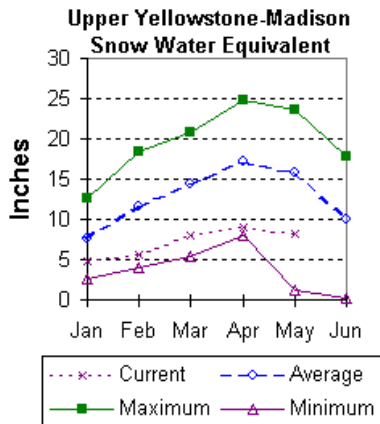
The average is computed for the 1961-1990 base period.

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

Upper Yellowstone and Madison River Basins (2)

Snow

Snowfall in these basins this year has been well below average for this time of the year. Snow water equivalent (SWE) is about 49 percent of average (83 percent of last year) in the Madison drainage. SWE in the Yellowstone drainage is about 54 percent of average (78 percent of last year at this time). See the "Snow Course Basin Summary" at the beginning of this document for more details on specific sites.



290,000 acre-feet of water (77 percent of capacity) – 118 percent of average. Ennis Lake is storing about 97 percent and Hebgen Lake is storing about 95 percent of last year's volume.

Streamflow

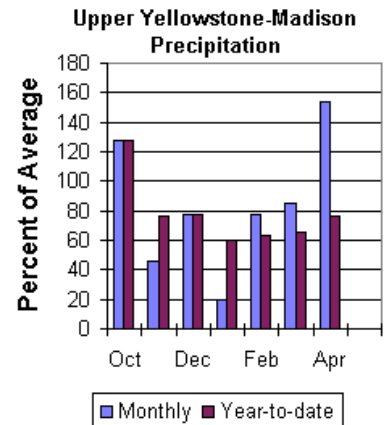
All the following forecasts are the 50 percent chance runoff for the April through September runoff period. Yellowstone at Lake Outlet is expected to yield about 440,000 acre feet (56 percent of normal). Yellowstone at Corwin Springs will yield about 1,200,000 acre-feet (62 percent of normal). Yellowstone near Livingston will yield about 1,375,000 acre feet (61 percent of normal). Hebgen lake inflow is estimated to be 355,000 acre feet (69 percent of normal). See the following page for detailed runoff volumes.

Precipitation

April precipitation in the Madison and Yellowstone drainage was about 154 percent of average (166 percent of previous year) for the 6 reporting stations -- percentage range was from 83 to 177 percent of average. Water-year-to-date precipitation is about 76 percent of average (85 percent of last year's amount). Year to date percentage ranges from 60 to 102 percent

Reservoir

Usable reservoir storage for Ennis Lake is 31,000 acre-feet (76 percent of capacity) – 88 percent of average. Hebgen Lake usable storage is about



UPPER YELLOWSTONE & MADISON RIVER BASINS
Streamflow Forecasts - May 1, 2001

| Forecast Point | Forecast Period | Future Conditions | | | | Wetter | | 30-Yr Avg. (1000AF) |
|-----------------------------------|-----------------|-------------------|--------------|------------------------------|--------------------------------|--------------|--------------|---------------------|
| | | 90% (1000AF) | 70% (1000AF) | 50% (Most Probable) (1000AF) | Chance Of Exceeding * (% AVG.) | 30% (1000AF) | 10% (1000AF) | |
| YELLOWSTONE at Lake Outlet | MAY-SEP | 343 | 398 | 435 | 58 | 472 | 527 | 756 |
| YELLOWSTONE RIVER at Corwin Spgs. | MAY-SEP | 1042 | 1184 | 1280 | 69 | 1376 | 1518 | 1844 |
| YELLOWSTONE RIVER near Livingston | MAY-SEP | 1226 | 1362 | 1455 | 69 | 1548 | 1684 | 2123 |
| HEBGEN Reservoir Inflow | MAY-SEP | 218 | 258 | 285 | 67 | 312 | 352 | 428 |

UPPER YELLOWSTONE & MADISON RIVER BASINS
Reservoir Storage (1000 AF) - End of April

UPPER YELLOWSTONE & MADISON RIVER BASINS
Watershed Snowpack Analysis - May 1, 2001

| Reservoir | Usable Capacity | *** Usable Storage *** | | | Watershed | Number of Data Sites | This Year as % of | |
|-------------|-----------------|------------------------|-----------|-------|-------------------------|----------------------|-------------------|---------|
| | | This Year | Last Year | Avg | | | Last Yr | Average |
| ENNIS LAKE | 41.0 | 31.0 | 32.1 | 35.1 | MADISON RIVER in WY | 9 | 83 | 49 |
| HEBGEN LAKE | 377.5 | 290.0 | 305.7 | 246.1 | YELLOWSTONE RIVER in WY | 11 | 78 | 54 |

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

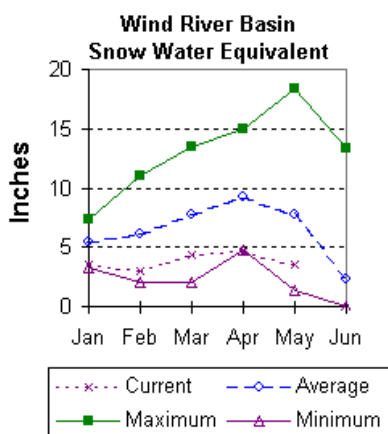
The average is computed for the 1961-1990 base period.

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

Wind River Basin (3)

Snow

The Wind River basin has much below average snow water equivalent (SWE) for this time of the year. SWE in the Wind River above Dubois is 58 percent of average (84 percent of last year). The Little Wind SWE is 27 percent of average water content (67 percent of last year), and the Popo Agie drainage SWE is about 37 percent of average (72 percent of last year). The Wind River basin, above Boysen Reservoir, SWE is about 45 percent of average (about 78 percent of last year). See the Basin Summary of Snow Course Data at the front of this report for details.



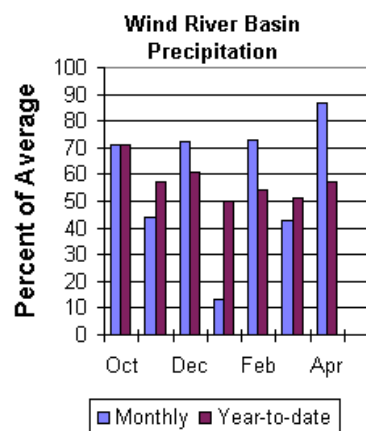
Precipitation

April precipitation in the basin varied from 28 to 109 percent of average. April precipitation for the basin was about 60 percent of average for the 9 reporting stations; that is about 53 percent of last year's amount. Water year-to-date precipitation is 57 percent of normal. The current water-year-to-date average is about 73 percent of last year at this time. Year to date figures range from 46 to 108 percent of average.

Reservoirs

Current usable storage varies from 77 to 82 percent of

average. Bull Lake is currently storing about 61,700 acre feet (41 percent of capacity) -- the reservoir is at 77 percent of average at this time of the year. Boysen Reservoir is storing about 73 percent of capacity (437,300 acre feet) -- the reservoir is at 87 percent of average for this time of the year. Pilot Butte is storing 78 percent of capacity (24,700 acre feet) -- the reservoir is at 82 percent of average for this time of the year.



Streamflow

Water supply is estimated to be much below normal this year. The following values reflect the 50 percent chance yields for the April through September runoff period. The Wind River above Bull Lake Creek is expected to yield 315,000 acre feet (62 percent of average). Wind River at Riverton will yield about 312,000 acre feet (51 percent of average). Boysen Reservoir inflow will yield about 320,000 acre feet (42 percent of normal). Bull Lake Creek near Lenore is expected to yield about 100,000 acre feet (56 percent of average). Little Popo Agie River near Lander is expected to yield about 22,500 acre feet (46 percent of average). South Fork of Little Wind near Fort Washakie will yield about 51,000 acre feet (65 percent of average). Little Wind River near Riverton will yield about 145,000 acre feet (48 percent of average).

WIND RIVER BASIN
Streamflow Forecasts - May 1, 2001

| Forecast Point | Forecast Period | Future Conditions | | | | | | 30-Yr Avg. (1000AF) |
|---------------------------------|-----------------|-----------------------|-----------------|---|----|----------------------|-----------------|------------------------|
| | | <<===== Drier =====>> | | ===== | | ===== Wetter =====>> | | |
| | | 90% (1000AF) | 70% (1000AF) | Chance Of Exceeding * 50% (Most Probable) (1000AF) (% AVG.) | | 30% (1000AF) | 10% (1000AF) | |
| WIND RIVER abv Bull Lake Cr (2) | MAY-SEP | 254 | 290 | 315 | 62 | 355 | 414 | 511 |
| WIND RIVER at Riverton (2) | MAY-SEP | 243 | 284 | 312 | 51 | 384 | 490 | 609 |
| BOYSEN RESERVOIR Inflow (2) | MAY-SEP | 211 | 276 | 320 | 42 | 425 | 579 | 758 |
| BULL LAKE CR near Lenore (2) | MAY-SEP | 82 | 93 | 100 | 56 | 113 | 132 | 179 |
| LT POPO AGIE RIVER nr Lander | MAY-SEP | 16.2 | 19.9 | 23 | 46 | 28 | 36 | 49 |
| SF LT WIND nr Fort Washakie | MAY-SEP | 38 | 46 | 51 | 65 | 59 | 71 | 78 |
| LT WIND RIVER nr Riverton | MAY-SEP | 88 | 122 | 145 | 48 | 193 | 263 | 303 |

| WIND RIVER BASIN Reservoir Storage (1000 AF) - End of April | | | | | WIND RIVER BASIN Watershed Snowpack Analysis - May 1, 2001 | | | |
|--|-----------------|------------------------|-----------|-------|---|----------------------|-------------------|---------|
| Reservoir | Usable Capacity | *** Usable Storage *** | | | Watershed | Number of Data Sites | This Year as % of | |
| | | This Year | Last Year | Avg | | | Last Yr | Average |
| BULL LAKE | 151.8 | 61.7 | 93.5 | 79.9 | WIND RIVER above Dubios | 7 | 84 | 58 |
| BOYSEN | 596.0 | 437.3 | 501.4 | 502.6 | LITTLE WIND | 2 | 67 | 27 |
| PILOT BUTTE | | NO REPORT | | | POPO AGIE | 6 | 72 | 37 |
| | | | | | WIND above Boyesen Resv | 14 | 78 | 45 |

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

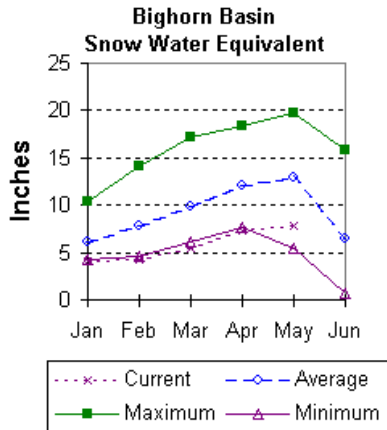
The average is computed for the 1961-1990 base period.

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

Bighorn River Basin (4)

Snow

Snowpack in this basin is well below average for this time of year. The Nowood drainage SWE is 59 percent of average (97 percent of last year). Greybull River SWE is 31 percent of average (60 percent of last year). Shell Creek SWE is 70 percent of average (78 percent of last year). The basin SWE, as a whole, is currently 61 percent of average (82 percent of last year). For more information see Basin Summary of Snow Courses at beginning of report.



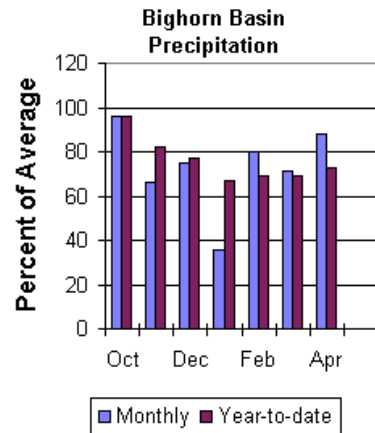
Precipitation

April precipitation was 88 percent of the monthly average (87 percent of last year). Sites ranged from 16 to 139 percent of average for the month. Year-to-date precipitation is 73 percent of normal; that is 80 percent of last year at this time. Year to date percentages, from the 13 reporting stations, range from 48 to 145.

Reservoir

Usable storage in Boysen Reservoir is currently 437,300-acre feet (87 percent of

average). Bighorn Lake is now at 107 percent of average (841,200-acre feet). Boysen is currently storing 87 percent of last year at this time and Big Horn Lake is storing 96 percent of last year's volume.



Streamflow

The 50 percent chance May through September runoff is anticipated to be below normal. The Boysen Reservoir inflow is forecast to yield 320,000 acre feet (42 percent of average); the Greybull River nr Meeteese should yield 80,000 acre feet (41 percent of average); Shell Creek near Shell should yield 52,000 acre feet (72 percent of average) and the Bighorn River at Kane should yield 445,000 acre feet (43 percent of average).

BIGHORN RIVER BASIN
Streamflow Forecasts - May 1, 2001

| Forecast Point | Forecast Period | Future Conditions | | | | | | 30-Yr Avg. (1000AF) |
|-----------------------------|-----------------|-----------------------|-----------------|---|----|----------------------|-----------------|------------------------|
| | | <<===== Drier =====>> | | ===== | | ===== Wetter =====>> | | |
| | | 90% (1000AF) | 70% (1000AF) | Chance Of Exceeding * 50% (Most Probable) (1000AF) (% AVG.) | | 30% (1000AF) | 10% (1000AF) | |
| BOYSEN RESERVOIR Inflow (2) | MAY-SEP | 211 | 276 | 320 | 42 | 425 | 579 | 758 |
| GREYBULL RIVER nr Meeteetse | MAY-SEP | 64 | 73 | 80 | 41 | 96 | 120 | 195 |
| SHELL CREEK nr Shell | MAY-SEP | 42 | 48 | 52 | 72 | 56 | 63 | 72 |
| BIGHORN RIVER at Kane (2) | MAY-SEP | 283 | 379 | 445 | 43 | 598 | 822 | 1039 |

| BIGHORN RIVER BASIN Reservoir Storage (1000 AF) - End of April | | | | | BIGHORN RIVER BASIN Watershed Snowpack Analysis - May 1, 2001 | | | |
|---|-----------------|------------------------|-----------|-------|--|----------------------|-------------------|---------|
| Reservoir | Usable Capacity | *** Usable Storage *** | | | Watershed | Number of Data Sites | This Year as % of | |
| | | This Year | Last Year | Avg | | | Last Yr | Average |
| BOYSEN | 596.0 | 437.3 | 501.4 | 502.6 | NOWOOD RIVER | 5 | 97 | 59 |
| BIGHORN LAKE | 1356.0 | 841.2 | 877.6 | 789.2 | GREYBULL RIVER | 2 | 60 | 31 |
| | | | | | SHELL CREEK | 4 | 78 | 70 |
| | | | | | BIGHORN (Boysen-Bighorn) | 11 | 82 | 61 |

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

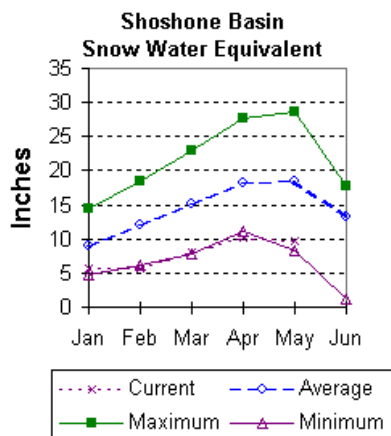
The average is computed for the 1961-1990 base period.

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

Shoshone and Clarks Fork River Basin (5)

Snow

Snow Water Equivalent (SWE) is 54 percent of the May 1 average (78 percent of last year) in the Shoshone River basin. The Clarks Fork River basin SWE is 52 percent of average (69 percent of last year). For more information see the Basin Summary of Snow Course Data at the beginning of this report.



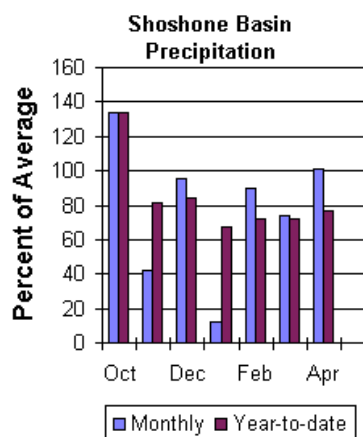
capacity. Currently, about 352,100 acre-feet of usable storage is in the reservoir compared to 430,800 acre feet last year – normally the reservoir stores about 335,100 acre feet at this time of the year. Detailed reservoir data is shown on the following page and on the reservoir storage summary at the beginning of this report.

Precipitation

Precipitation for the month of April was 104 percent of normal (126 percent of last year). Monthly percentages range from 17 to 168 percent of average. The basin year-to-date precipitation is now 77 percent of average (82 percent of last year). Year-to-date percentages range from 41 to 102 percent of average.

Reservoir

Current usable storage in Buffalo Bill Reservoir is 105 percent of average (82 percent of last year's storage) – the reservoir is about 52 percent of



Streamflow

The fifty percent yield (May through September period) for North Fork Shoshone River at Wapiti is expected to be 335,000 acre-feet (70 percent of average). South Fork of the Shoshone River near Valley is estimated to yield of 140,000 acre-feet (54 percent of average), and South Fork above Buffalo Bill Reservoir is expected to be 81,000 acre-feet (37 percent of average). At the Buffalo Bill Reservoir, the fifty percent chance yield for the Shoshone River is expected to be about 440,000 acre-feet (58 percent of average). The fifty-percent chance yield for the Clarks Fork of the Yellowstone near Belfry, Montana is expected to be about 300,000 acre-feet (53 percent of average).

SHOSHONE & CLARKS FORK RIVER BASINS
Streamflow Forecasts - May 1, 2001

| Forecast Point | Forecast Period | <<===== Drier ===== Future Conditions ===== Wetter =====>> | | | | | | 30-Yr Avg. (1000AF) |
|------------------------------------|-----------------|--|-----------------|---------------------------------|----------|-----------------|-----------------|------------------------|
| | | Chance Of Exceeding * | | | | | | |
| | | 90% (1000AF) | 70% (1000AF) | 50% (Most Probable) (1000AF) | (% AVG.) | 30% (1000AF) | 10% (1000AF) | |
| NF SHOSHONE RIVER at Wapiti | MAY-SEP | 302 | 322 | 335 | 70 | 354 | 383 | 480 |
| SF SHOSHONE RIVER nr Valley | MAY-SEP | 121 | 132 | 140 | 54 | 154 | 176 | 259 |
| SF SHOSHONE RIVER abv Buffalo Bill | MAY-SEP | 60 | 72 | 81 | 37 | 104 | 138 | 218 |
| BUFFALO BILL DAM Inflow (2) | MAY-SEP | 363 | 409 | 440 | 58 | 494 | 573 | 754 |
| CLARKS FORK RIVER nr Belfry | MAY-SEP | 255 | 282 | 300 | 53 | 334 | 384 | 566 |

| SHOSHONE & CLARKS FORK RIVER BASINS Reservoir Storage (1000 AF) - End of April | | | | SHOSHONE & CLARKS FORK RIVER BASINS Watershed Snowpack Analysis - May 1, 2001 | | | | |
|---|-----------------|------------------------|-----------|--|-------------------|----------------------|-------------------|---------|
| Reservoir | Usable Capacity | *** Usable Storage *** | | | Watershed | Number of Data Sites | This Year as % of | |
| | | This Year | Last Year | Avg | | | Last Yr | Average |
| BUFFALO BILL | 646.6 | 352.1 | 430.8 | 335.1 | SHOSHONE RIVER | 7 | 78 | 54 |
| | | | | | CLARKS FORK in WY | 7 | 69 | 52 |

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

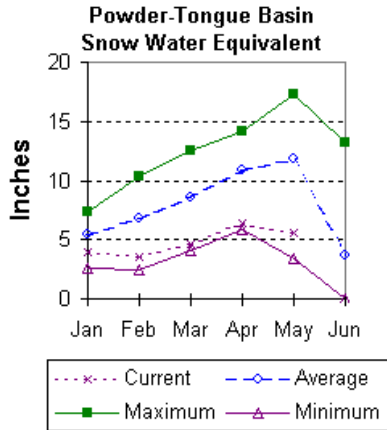
The average is computed for the 1961-1990 base period.

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

Powder and Tongue River Basins (6)

Snow

Snow water equivalent (SWE) in the Upper Tongue River drainage is 61 percent of normal (73 percent of last year). The Goose Creek drainage is 61 percent of average (78 percent of last year). Clear Creek drainage is 47 percent of normal SWE (82 percent of last year). Crazy Woman Creek is 69 percent of average (109 percent of last year). The Upper Powder River drainage is 47 percent of average (80 percent of last year). The Powder River basin snow water equivalent (SWE), in Wyoming, is about 47 percent of average (81 percent of last year). For more information see Basin Summary of Snow Courses at beginning of report.

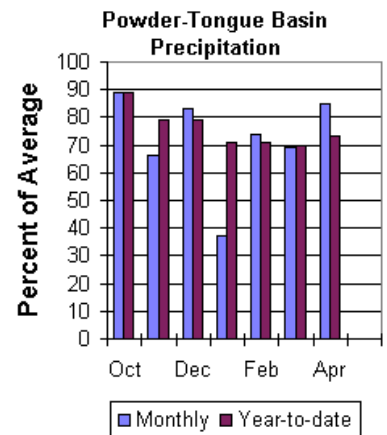


Precipitation

April precipitation was 85 percent of average for the 11 reporting stations (85 percent of last year). Monthly percentages range from 47 to 137 percent of average. Precipitation for the year ranges from 59 to 83 percent of average at the reporting stations. Year-to-date precipitation is about 73 percent of average in the basin; this is 78 percent of last year at this time.

Reservoir

Tongue River Reservoir is currently at 122 percent of average usable storage for this time of year (44,500 acre feet) – the reservoir is about 46 percent of capacity (total capacity is 79,100 acre feet). Last year at this time the reservoir was storing about 41,100 acre feet – average storage is about 36,600 acre feet for this time of the year. Detailed reservoir data is shown on the following page and on the reservoir storage summary at the beginning of this report.



Streamflow

The following runoff values are for the 50 percent probability during the May through September forecast period. The estimated yield for Tongue River near Dayton is 65,000-acre feet (60 percent of normal). Middle Fork of the Powder River near Barnum is estimated to yield 5,700-acre feet (32 percent of average). The North Fork of the Powder near Hazelton should yield about 5,300 acre-feet (56 percent of normal). The estimated yield for Clear Creek near Buffalo is 19,000 acre-feet (51 percent of average). Rock Creek near Buffalo will yield about 11,000 acre-feet (48 percent of normal), and Piney Creek at Kearny should yield about 19,500 acre-feet (42 percent of average).

POWDER & TONGUE RIVER BASINS
Streamflow Forecasts - May 1, 2001

| Forecast Point | Forecast Period | <<===== Drier ===== Future Conditions ===== Wetter =====>> | | | | | | 30-Yr Avg. (1000AF) |
|-------------------------------|-----------------|--|-----------------|---------------------------------|----------|-----------------|-----------------|------------------------|
| | | Chance Of Exceeding * | | | | | | |
| | | 90% (1000AF) | 70% (1000AF) | 50% (Most Probable) (1000AF) | (% AVG.) | 30% (1000AF) | 10% (1000AF) | |
| TONGUE RIVER nr Dayton (2) | MAY-SEP | 50 | 59 | 65 | 60 | 75 | 89 | 109 |
| MIDDLE FORK POWDER nr Barnum | MAY-SEP | 3.9 | 5.0 | 5.7 | 32 | 7.9 | 11.3 | 17.7 |
| NORTH FORK POWDER nr Hazelton | MAY-SEP | 3.90 | 4.73 | 5.30 | 56 | 6.31 | 7.80 | 9.50 |
| CLEAR CREEK nr Buffalo | MAY-SEP | 15.4 | 17.5 | 19.0 | 51 | 22 | 26 | 37 |
| ROCK CREEK nr Buffalo | MAY-SEP | 8.4 | 9.9 | 11.0 | 48 | 13.2 | 16.4 | 23 |
| PINEY CREEK at Kearny | MAY-SEP | 9.3 | 15.4 | 19.5 | 42 | 29 | 44 | 47 |

| POWDER & TONGUE RIVER BASINS Reservoir Storage (1000 AF) - End of April | | | | | POWDER & TONGUE RIVER BASINS Watershed Snowpack Analysis - May 1, 2001 | | | |
|--|-----------------|------------------------|-----------|------|---|----------------------|-------------------|---------|
| Reservoir | Usable Capacity | *** Usable Storage *** | | | Watershed | Number of Data Sites | This Year as % of | |
| | | This Year | Last Year | Avg | | | Last Yr | Average |
| TONGUE RIVER | 79.1 | 44.5 | 41.1 | 36.6 | UPPER TONGUE RIVER | 8 | 74 | 61 |
| | | | | | GOOSE CREEK | 2 | 76 | 61 |
| | | | | | CLEAR CREEK | 4 | 82 | 47 |
| | | | | | CRAZY WOMAN CREEK | 3 | 109 | 69 |
| | | | | | UPPER POWDER RIVER | 4 | 80 | 47 |
| | | | | | POWDER RIVER in WY | 8 | 81 | 47 |

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

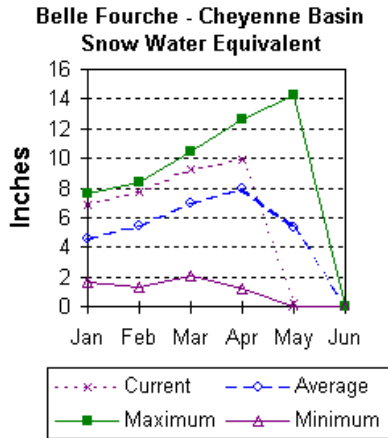
The average is computed for the 1961-1990 base period.

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

Belle Fourche and Cheyenne River Basins (7)

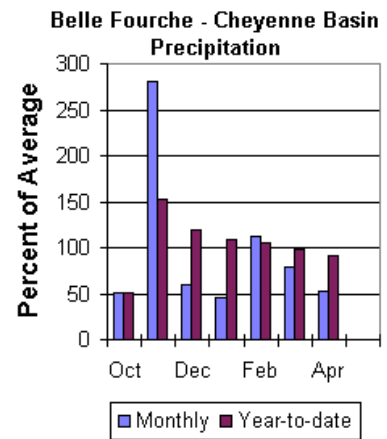
Snow.

The Belle Fourche River Basin is essentially melted out as of May 1. See Basin summary of Snow Course Data at the beginning of this report for a detailed listing.



Precipitation.

Precipitation, for the month of April was 53 percent of average in the Black Hills (44 percent of last April). Monthly percentages range from 16 to 108 percent. Year-to-date precipitation is 92 percent of average and 109 percent of last year's amount. Year to date percentages range from 86 to 92. This is from the 3 reporting stations.



Reservoir.

Usable reservoir storage is generally above average in the

basin. Angostura is currently storing 102 percent of average (116,300-acre feet). Belle Fourche reservoir is storing 124 percent of average (181,200-acre feet). Deerfield reservoir is storing 110 percent of average (15,000-acre feet). Keyhole reservoir is storing 156 percent of average (171,000-acre feet). Pactola reservoir is storing 113 percent of average (54,000-acre feet), and Shadehill reservoir is storing 123 percent of average (80,000-acre feet).

Streamflow

Streamflow forecasts are below average as of May 1. Deerfield Reservoir inflow is forecast at 2,250 acre feet (75 percent of average). Pactola is forecast at 10,500 acre feet (70 percent of average). This is for the May – July runoff period.

BELLE FOURCHE & CHEYENNE RIVER BASINS
Streamflow Forecasts - May 1, 2001

| Forecast Point | Forecast Period | <<===== Drier ===== Future Conditions ===== Wetter =====>> | | | | | | |
|----------------------------|-----------------|--|-----------------|---------------------------------|----------|-----------------|-----------------|------------------------|
| | | Chance Of Exceeding * | | | | | | 30-Yr Avg. (1000AF) |
| | | 90% (1000AF) | 70% (1000AF) | 50% (Most Probable) (1000AF) | (% AVG.) | 30% (1000AF) | 10% (1000AF) | |
| DEERFIELD RESERVOIR Inflow | MAY-JUL | 0.77 | 1.65 | 2.25 | 75 | 3.05 | 4.22 | 3.00 |
| PACTOLA RESERVOIR Inflow | MAY-JUL | 0.0 | 6.2 | 10.5 | 70 | 16.6 | 26 | 15.1 |

BELLE FOURCHE & CHEYENNE RIVER BASINS
Reservoir Storage (1000 AF) - End of April

BELLE FOURCHE & CHEYENNE RIVER BASINS
Watershed Snowpack Analysis - May 1, 2001

| Reservoir | Usable Capacity | *** Usable Storage *** | | | Watershed | Number of Data Sites | This Year as % of | |
|---------------|-----------------|------------------------|-----------|-------|---------------|----------------------|-------------------|---------|
| | | This Year | Last Year | Avg | | | Last Yr | Average |
| ANGOSTURA | 122.1 | 116.3 | 120.9 | 113.7 | BELLE FOURCHE | 3 | 0 | 5 |
| BELLE FOURCHE | 178.4 | 181.2 | 189.9 | 145.7 | | | | |
| DEERFIELD | 15.2 | 15.0 | 15.2 | 13.6 | | | | |
| KEYHOLE | 193.8 | 171.0 | 175.4 | 109.6 | | | | |
| PACTOLA | 55.0 | 54.0 | 54.9 | 47.9 | | | | |
| SHADEHILL | 81.4 | 80.0 | 55.8 | 65.2 | | | | |

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

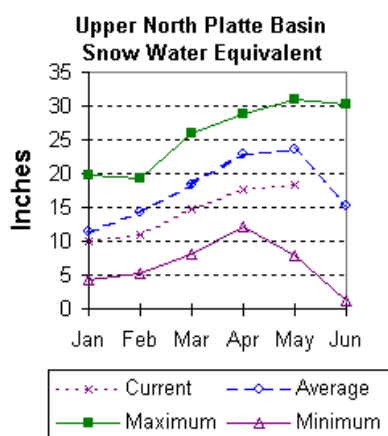
The average is computed for the 1961-1990 base period.

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

Upper North Platte River Basin (8)

Snow

The snow courses above Seminoe Reservoir have about 78 percent of average snow water equivalent (SWE) recorded for this time of the year (100 percent of last year). SWE in the drainage area above Northgate is about 75 percent of average and 80 percent of last year at this time. SWE in the Encampment River drainage is about 79 percent of normal and 108 percent of last year. Brush Creek SWE for the year is about 86 percent of normal and 120 percent of last year's SWE. Medicine Bow and Rock Creek drainage SWE is about 78 percent of average and 121 percent of last year at this time. For more information see Basin Summary of Snow Courses at the beginning of this report.

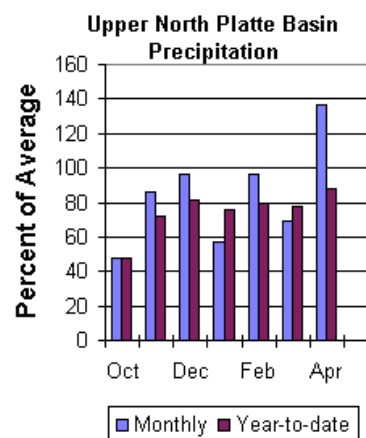


Precipitation

Nine reporting stations indicate April precipitation was 137 percent of average and about 168 percent of last year's amount. April precipitation varied from 84 to 172 percent of average. Total water-year-to-date precipitation is about 88 percent of average for the basin, which is about 101 percent of last year's amount. Year to date percentage ranges from 62 to 111 percent of average for the 9 reporting stations.

Reservoirs

Seminoe Reservoir usable storage is currently about 169 percent of normal for this time of the year. The reservoir is storing 88 percent of last year's amount. Seminoe Reservoir is estimated to be storing 663,500 acre-feet (65 percent of capacity). Last year, at this time, the reservoir had 753,000 acre-feet in storage.



Streamflow

All the following yields are based on the fifty percent chance April through September yield. Yield for the North Platte River near Northgate is expected to be about 122,000 acre-feet (54 percent of average). Encampment River near Encampment is estimated to yield 115,000 acre-feet (78 percent of normal). Rock Creek near Arlington is estimated to yield 35,000 acre-feet (64 percent of average). Seminoe Reservoir inflow should be about (415,000 acre-feet (62 percent of normal). See the following table for more detailed information on projected runoff.

=====

UPPER NORTH PLATTE RIVER BASIN
Streamflow Forecasts - May 1, 2001

=====

| Forecast Point | Forecast Period | <<===== Drier ===== Future Conditions ===== Wetter =====>> | | | | | | 30-Yr Avg. (1000AF) |
|---------------------------------|-----------------|--|-----------------|---------------------------------|----------|-----------------|-----------------|------------------------|
| | | Chance Of Exceeding * | | | | | | |
| | | 90% (1000AF) | 70% (1000AF) | 50% (Most Probable) (1000AF) | (% AVG.) | 30% (1000AF) | 10% (1000AF) | |
| North Platte River nr Northgate | MAY-SEP | 61 | 97 | 122 | 54 | 147 | 183 | 228 |
| Encampment River nr Encampment | MAY-SEP | 80 | 101 | 115 | 78 | 129 | 150 | 148 |
| Rock Creek nr Arlington | MAY-SEP | 28 | 32 | 35 | 64 | 38 | 43 | 55 |
| Seminoe Reservoir inflow | MAY-JUL | 230 | 340 | 415 | 62 | 490 | 600 | 671 |
| | MAY-SEP | 337 | 407 | 455 | 62 | 503 | 573 | 733 |

=====

UPPER NORTH PLATTE RIVER BASIN
Reservoir Storage (1000 AF) - End of April

=====

| Reservoir | Usable Capacity | *** Usable Storage *** | | |
|-----------|-----------------|------------------------|-----------|-------|
| | | This Year | Last Year | Avg |
| SEMINOE | 1016.7 | 663.5 | 753.0 | 392.0 |

=====

UPPER NORTH PLATTE RIVER BASIN
Watershed Snowpack Analysis - May 1, 2001

=====

| Watershed | Number of Data Sites | This Year as % of | |
|---------------------------|----------------------|-------------------|---------|
| | | Last Yr | Average |
| N PLATTE above Northgate | 7 | 80 | 75 |
| ENCAMPMENT RIVER | 4 | 108 | 79 |
| BRUSH CREEK | 5 | 120 | 86 |
| MEDICINE BOW & ROCK CREEK | 3 | 121 | 78 |
| N PLATTE above Seminoe | 19 | 100 | 78 |

=====

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

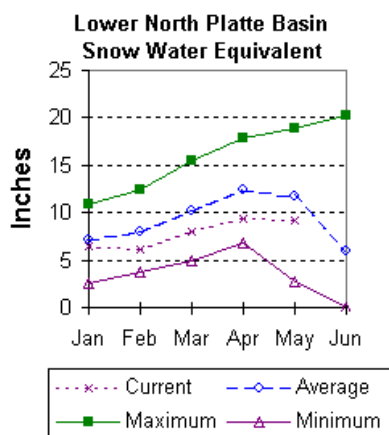
The average is computed for the 1961-1990 base period.

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

Lower North Platte River Basin (9)

Snow

SWE for the North Platte River basin in Wyoming averages 78 percent of normal (103 % of last year). The Sweetwater drainage SWE is currently 51 percent (69 percent of last year). Deer and LaPrele Creek SWE is 94 percent of average (108 percent of last year). SWE for the North Platte above the Laramie River drainage is 77 percent of average (98 % of last year). SWE for the Laramie River above Laramie is 80 percent of average (97 % of last year). SWE for the Little Laramie River is 79 percent of average (163 percent of last year). SWE for the Laramie River above the mouth is 80 percent of average (112 % of last year). For more information see Basin Summary of Snow Courses at beginning of report.



Precipitation

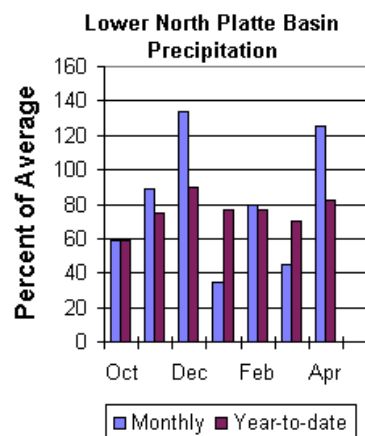
Last months precipitation ranged from 24 to 214 percent for the 11 reporting stations. April precipitation for the basin was 125 percent of average (113 percent of last year). The water year-to-date precipitation for the basin is currently 82 percent of average (92 percent of last year). Year to date percentages range from 46 to 134.

Reservoir

The Lower North Platte River basin usable storage is average to well above average.

Reservoir storage is as follows:

Alcova 178,300 acre feet (99 percent of average); Glendo 466,600 acre feet (102 percent of average); Guernsey 26,600 acre feet (81 percent of average); Pathfinder 774,400 acre feet (127 percent of average); Seminoe 663,500 acre feet (169 percent of average). Wheatland No.2 53,000 acre feet (97 percent of average).. Water allocated to project use is near average with North Platte Project users at 100 percent of average, Kendrick Project users at 119 percent of average, and Glendo Project users at 134 percent of average.



Streamflow

Yields from 16 to 87 percent are expected in the basin during the forecast period. The following yields are based on the fifty percent chance probability runoff for the May through September forecast period. The Sweetwater near Alcova is forecast to yield about 9,700 acre-feet (16 percent of average). Deer Creek at Glenrock is expected to yield about 42 percent of average (12,600 acre-feet). LaPrele Creek above the reservoir is estimated to yield 58 percent of average (11,500 acre-feet). North Platte River below Guernsey Reservoir is expected to yield about 51 percent of normal (405,000 acre-feet), and below Glendo Reservoir is anticipated to yield about 52 percent of average (430,000 acre-feet). Laramie River near Woods should yield about 87 percent of average (111,000 acre-feet). The Little Laramie near Filmore should produce about 48,000 acre-feet (79 percent of average).

LOWER NORTH PLATTE, SWEETWATER & LARAMIE RIVER BASINS
Streamflow Forecasts - May 1, 2001

| Forecast Point | Forecast Period | <<===== Drier ===== Future Conditions ===== Wetter =====>> | | | | | | 30-Yr Avg. (1000AF) |
|--------------------------------------|-----------------|--|-----------------|---------------------------------|----------|-----------------|-----------------|------------------------|
| | | Chance Of Exceeding * | | | | | | |
| | | 90% (1000AF) | 70% (1000AF) | 50% (Most Probable) (1000AF) | (% AVG.) | 30% (1000AF) | 10% (1000AF) | |
| Sweetwater River nr Alcova | MAY-JUL | 5.6 | 6.7 | 7.4 | 13 | 16.7 | 30 | 56 |
| | MAY-SEP | 7.0 | 8.6 | 9.7 | 16 | 19.7 | 34 | 61 |
| Deer Creek at Glenrock | MAY-SEP | 7.5 | 10.4 | 12.6 | 42 | 15.0 | 18.9 | 30 |
| La Prele Creek ab La Prele Reservoir | MAY-SEP | 3.2 | 7.3 | 11.5 | 58 | 17.0 | 28 | 20 |
| North Platte River blw Glendo Reserv | MAY-JUL | 146 | 291 | 390 | 51 | 489 | 634 | 761 |
| | MAY-SEP | 277 | 353 | 405 | 51 | 506 | 656 | 793 |
| North Platte River blw Guernsey Resv | MAY-JUL | 251 | 343 | 405 | 52 | 525 | 700 | 780 |
| | MAY-SEP | 270 | 365 | 430 | 52 | 554 | 737 | 825 |
| Laramie River nr Woods | MAY-SEP | 66 | 93 | 111 | 87 | 129 | 156 | 127 |
| Little Laramie River nr Filmore | MAY-SEP | 39 | 44 | 48 | 79 | 52 | 58 | 61 |

LOWER NORTH PLATTE, SWEETWATER & LARAMIE RIVER BASINS
Reservoir Storage (1000 AF) - End of April

LOWER NORTH PLATTE, SWEETWATER & LARAMIE RIVER BASINS
Watershed Snowpack Analysis - May 1, 2001

| Reservoir | Usable Capacity | *** Usable Storage *** | | | Watershed | Number of Data Sites | This Year as % of | |
|----------------------|-----------------|------------------------|-----------|-------|---------------------------|----------------------|-------------------|---------|
| | | This Year | Last Year | Avg | | | Last Yr | Average |
| ALCOVA | 184.3 | 178.3 | 197.7 | 179.9 | SWEETWATER | 3 | 73 | 51 |
| GLENDO | 506.4 | 466.6 | 516.1 | 457.6 | DEER & LaPRELE CREEKS | 2 | 96 | 88 |
| GUERNSEY | 45.6 | 26.6 | 36.0 | 32.8 | N PLATTE abv Laramie R. | 24 | 97 | 76 |
| PATHFINDER | 1016.5 | 774.4 | 994.6 | 609.0 | LARAMIE RIVER abv Laramie | 9 | 97 | 80 |
| SEMINOE | 1016.7 | 663.5 | 753.0 | 392.0 | LITTLE LARAMIE RIVER | 4 | 163 | 79 |
| WHEATLAND #2 | 98.9 | 53.0 | 77.0 | 54.9 | LARAMIE RIVER above mouth | 12 | 112 | 80 |
| NORTH PLATTE PROJ | | NO REPORT | | | NORTH PLATTE | 32 | 103 | 77 |
| KENDRICK PROJECT | | NO REPORT | | | | | | |
| GLENDO PROJECT USERS | | NO REPORT | | | | | | |

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

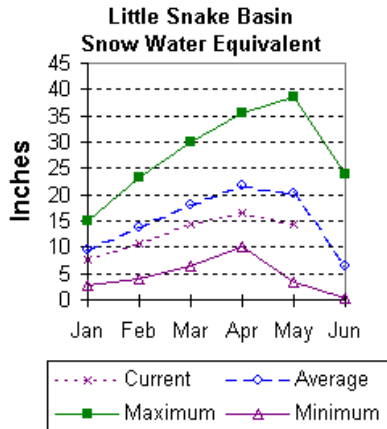
The average is computed for the 1961-1990 base period.

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

Little Snake River Basin (10)

Snow

Snowfall has been below average across the basin this year. Currently, snow water equivalent (SWE) in the Little Snake River drainage is 71 percent of average (104 percent of last year at this time). For more information see Basin Summary of Snow Courses at beginning of this report.



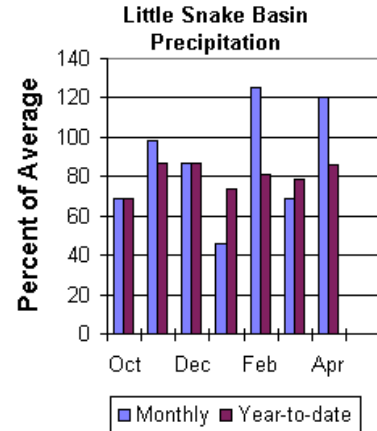
Precipitation

Precipitation across the basin was above average this past month. April precipitation was 120 percent of average (194 percent of last year) for the 5 reporting stations. April precipitation ranged from 78 to 148 percent of average. The Little Snake River basin water-year-to-date precipitation is currently 86 percent of average (103 percent of last year). Year-to-date percentages range from 78 to 94 percent of average.

Streamflow

Runoff yield in the Little Snake River drainage is

expected to be below normal this year. Stream yield is based on the 50 percent probability for the April through July forecast period. The Little Snake River near Slater should yield about 100,000 acre-feet (65 percent of normal). Little Snake River near Dixon is estimated to yield 210,000 acre-feet (64 percent of normal).



LITTLE SNAKE RIVER BASIN
Streamflow Forecasts - May 1, 2001

| Forecast Point | Forecast Period | <<===== Drier ===== Future Conditions ===== Wetter =====>> | | | | | | |
|------------------------------|-----------------|--|-----------------|---------------------------------|----------|-----------------|-----------------|------------------------|
| | | Chance Of Exceeding * | | | | | | 30-Yr Avg. (1000AF) |
| | | 90% (1000AF) | 70% (1000AF) | 50% (Most Probable) (1000AF) | (% AVG.) | 30% (1000AF) | 10% (1000AF) | |
| Little Snake River nr Slater | APR-JUL | 65 | 85 | 100 | 65 | 116 | 142 | 155 |
| LITTLE SNAKE R nr Dixon | APR-JUL | 104 | 167 | 210 | 64 | 253 | 316 | 329 |

| LITTLE SNAKE RIVER BASIN Reservoir Storage (1000 AF) - End of April | | | | LITTLE SNAKE RIVER BASIN Watershed Snowpack Analysis - May 1, 2001 | | | | |
|--|-----------------|------------------------|-----------|---|--------------------|----------------------|-------------------|---------|
| Reservoir | Usable Capacity | *** Usable Storage *** | | | Watershed | Number of Data Sites | This Year as % of | |
| | | This Year | Last Year | Avg | | | Last Yr | Average |
| | | | | | LITTLE SNAKE RIVER | 8 | 104 | 71 |

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

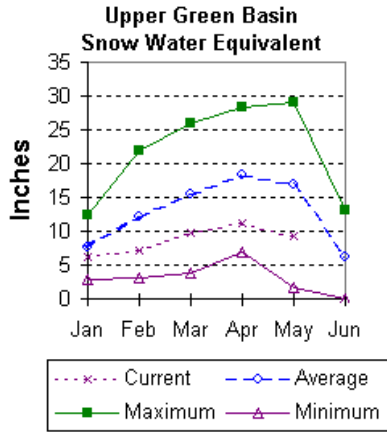
The average is computed for the 1961-1990 base period.

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

Upper Green River Basin (11)

Snow

The Upper Green River Basin snow water equivalent (SWE), above Fontenelle Reservoir, is about 56 percent of average (86 percent of last year). The Green River basin SWE above Warren Bridge is 44 percent of normal (84 percent of last year). SWE on the west side of the Upper Green River basin is about 58 percent of normal, 82 percent of this time last year. Newfork River SWE is now about 68 percent of normal (132 percent of last year). Big Sandy-Eden Valley SWE is about 67 percent of average (94 percent of last year). For more information see the Basin Summary of Snow Courses at the beginning of this report.



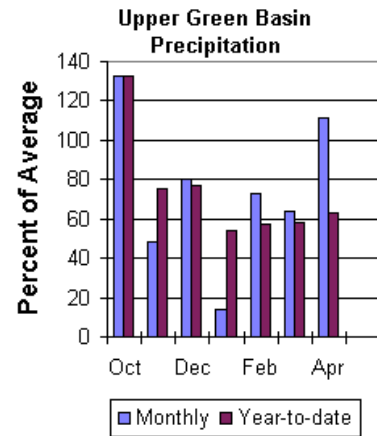
Precipitation

The 11 reporting precipitation sites in the basin were 111 percent of the April average (191 percent of last year at this time). April precipitation varied from 59 to 178 percent of average. Water year-to-date precipitation is about 88 percent of average (63 percent of last year). Year to date percentage of average ranges from 56 to 75 percent for the reporting stations.

Reservoir

Usable storage in Big Sandy Reservoir is 11,100 acre-feet (46 percent of average and 29

percent of the total capacity). Eden Reservoir water level is too low to measure. Usable storage in Fontenelle Reservoir is 117,200 acre feet (72 percent of average and 34 percent of capacity. Flaming Gorge Reservoir is currently storing 3,041,200 acre feet -- 85 percent of last year and 81 percent of capacity. No average has been established for Flaming Gorge. Detailed reservoir data is shown on the following page and on the reservoir storage summary at the beginning of this report.



Streamflow

The fifty-percent chance April through July runoff in the Upper Green River basin is forecast much below average. Green River at Warren Bridge is expected to yield about 175,000 acre-feet (66 percent of normal). Pine Creek above Fremont Lake is expected to yield 80,000 acre-feet (77 percent of normal). New Fork River near Big Piney is expected to yield about 240,000 acre-feet (62 percent of normal). Fontenelle Reservoir Inflow is estimated to be 450,000 acre-feet (53 percent of average), and Big Sandy near Farson is expected to be about 38,000 acre-feet (67 percent of normal).

UPPER GREEN RIVER BASIN
Streamflow Forecasts - May 1, 2001

| Forecast Point | Forecast Period | <<===== Drier ===== Future Conditions ===== Wetter =====>> | | | | | | 30-Yr Avg. (1000AF) |
|------------------------------|-----------------|--|-----------------|---------------------------------|----------|-----------------|-----------------|------------------------|
| | | Chance Of Exceeding * | | | | | | |
| | | 90% (1000AF) | 70% (1000AF) | 50% (Most Probable) (1000AF) | (% AVG.) | 30% (1000AF) | 10% (1000AF) | |
| Green River at Warren Bridge | APR-JUL | 138 | 160 | 175 | 66 | 190 | 212 | 266 |
| Pine Creek abv Fremont Lake | APR-JUL | 67 | 75 | 80 | 77 | 85 | 93 | 104 |
| | MAY-JUL | 66 | 74 | 79 | 78 | 84 | 92 | 101 |
| New Fork River nr Big Piney | APR-JUL | 155 | 206 | 240 | 62 | 274 | 325 | 385 |
| Fontenelle Reservoir Inflow | APR-JUL | 346 | 406 | 450 | 53 | 496 | 567 | 849 |
| Big Sandy River nr Farson | APR-JUL | 24 | 32 | 38 | 67 | 44 | 52 | 57 |

| UPPER GREEN RIVER BASIN Reservoir Storage (1000 AF) - End of April | | | | | UPPER GREEN RIVER BASIN Watershed Snowpack Analysis - May 1, 2001 | | | |
|---|-----------------|------------------------|-----------|-------|--|----------------------|-------------------|---------|
| Reservoir | Usable Capacity | *** Usable Storage *** | | | Watershed | Number of Data Sites | This Year as % of | |
| | | This Year | Last Year | Avg | | | Last Yr | Average |
| BIG SANDY | | NO REPORT | | | GREEN above Warren Bridge | 4 | 89 | 47 |
| EDEN | | NO REPORT | | | UPPER GREEN (West Side) | 7 | 82 | 58 |
| FLAMING GORGE | 3749.0 | 3041.2 | 3196.9 | --- | NEWFORK RIVER | 3 | 132 | 68 |
| FONTENELLE | 344.8 | 117.2 | 118.6 | 161.8 | BIG SANDY/EDEN VALLEY | 2 | 94 | 67 |
| | | | | | GREEN above Fontenelle | 14 | 87 | 57 |

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

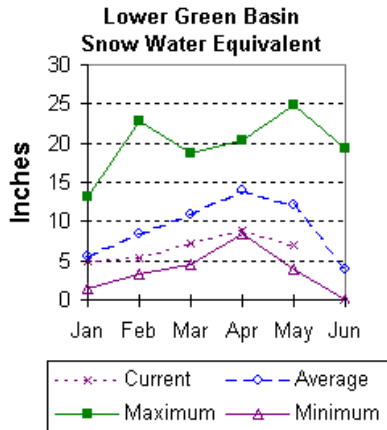
The average is computed for the 1961-1990 base period.

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

Lower Green River Basin (12)

Snow

Snow Water Equivalent in the Lower Green, as of May 1, is below average. SWE in the Hams Fork is 50 percent of average (82% of last year). Blacks Fork SWE is currently 63 percent of average (95 percent of last year). The Henry's fork SWE is currently 88 percent of average (204 percent of last year). The basin, as a whole, is 57 percent of average (92 percent of last year). For more information see Basin Summary of Snow Courses at beginning of this report.



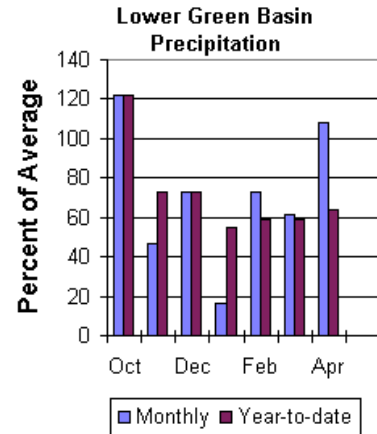
Precipitation

Precipitation was below average for the 3 reporting stations during April. Precipitation ranged from 41 to 119 percent of average for the month. The entire basin received 108 percent of average for the month (162 percent of last year). The basin year-to-date precipitation is currently 64 percent of average (91 percent of last year). Year to date percentages range from 61 to 69.

Reservoir

Usable storage in Fontenelle Reservoir this month is

117,200 acre feet (72 percent of average and 99 percent of last year. Flaming Gorge is currently at 3,041,200 acre feet of usable storage. There is no average established for Flaming Gorge. Viva Naughton did not report this month.



Streamflow

Expected yields vary from 37 to 72 percent of average across the basin.

The following forecast values are based on a 50 percent chance probability for the April through July forecast period. Green River near Green River is forecast to yield about 460,000-acre feet (51 percent of average). Blacks Fork near Robertson is forecast to yield 68,000-acre feet (72 percent of average). East Fork of Smiths Fork near Robertson is estimated to yield 20,000 acre-feet (67 percent of average). The estimated yield for Hams Fork near Frontier is 28,000-acre feet (42 percent of average). Viva Naughton Reservoir inflow will be about 33,000-acre feet (37 percent of average). Flaming Gorge Reservoir inflow will be about 620,000-acre feet (52 percent of average).

LOWER GREEN RIVER BASIN
Streamflow Forecasts - May 1, 2001

| Forecast Point | Forecast Period | Future Conditions | | | | | | 30-Yr Avg. (1000AF) |
|-------------------------------------|-----------------|-----------------------|--------------|--|----|------------------------|--------------|---------------------|
| | | <<===== Drier =====>> | | ===== | | >>===== Wetter =====<< | | |
| | | 90% (1000AF) | 70% (1000AF) | Chance Of Exceeding * 50% (Most Probable) (1000AF) (% AVG.) | | 30% (1000AF) | 10% (1000AF) | |
| Green River nr Green River, WY | APR-JUL | 277 | 386 | 460 | 51 | 534 | 643 | 899 |
| Blacks Fork nr Robertson | APR-JUL | 52 | 62 | 68 | 72 | 74 | 84 | 95 |
| EF of Smiths Fork nr Robertson | APR-JUL | 16.9 | 18.7 | 20 | 67 | 21 | 24 | 30 |
| Hams Fk blw Pole Ck nr Frontier | APR-JUL | 19.3 | 24 | 28 | 42 | 32 | 38 | 66 |
| Hams Fk Inflow to Viva Naughton Res | APR-JUL | 13.8 | 25 | 33 | 37 | 41 | 52 | 89 |
| Flaming Gorge Reservoir Inflow | APR-JUL | 365 | 517 | 620 | 52 | 723 | 875 | 1196 |

| LOWER GREEN RIVER BASIN Reservoir Storage (1000 AF) - End of April | | | | | LOWER GREEN RIVER BASIN Watershed Snowpack Analysis - May 1, 2001 | | | |
|---|-----------------|------------------------|-----------|-------|--|----------------------|-------------------|---------|
| Reservoir | Usable Capacity | *** Usable Storage *** | | | Watershed | Number of Data Sites | This Year as % of | |
| | | This Year | Last Year | Avg | | | Last Yr | Average |
| FONTENELLE | 344.8 | 117.2 | 118.6 | 161.8 | HAMS FORK RIVER | 4 | 82 | 50 |
| FLAMING GORGE | 3749.0 | 3041.2 | 3196.9 | --- | BLACKS FORK | 5 | 95 | 63 |
| VIVA NAUGHTON RES | | NO REPORT | | | HENRYS FORK | 3 | 204 | 88 |
| | | | | | GREEN above Flaming Gorge | 26 | 93 | 58 |

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

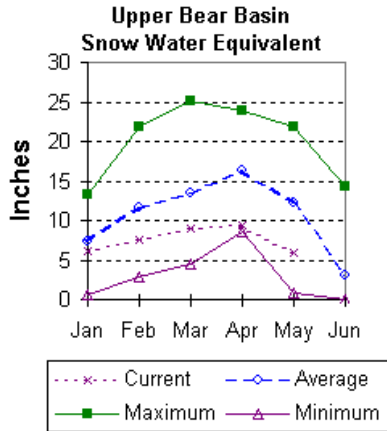
The average is computed for the 1961-1990 base period.

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

Upper Bear River Basin (13)

Snow

Snow water equivalent (SWE), at snow courses in the Bear River above the Idaho State line, is 49 percent of average (89 percent of last year). SWE for the Bear River in Utah is estimated to be 56 percent of average; that is about 96 percent of last year at this time. SWE in the Wyoming portion of the Bear River drainage (Smiths and Thomas Forks) is estimated at 49 percent of average (79 percent of last year at this time.). See the Basin Summary of Snow Course Data at the beginning of this report for more detailed information.



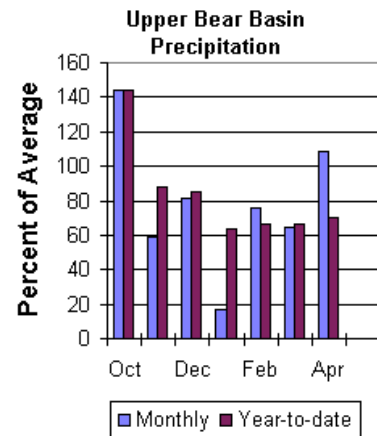
percent of the amount stored last year at this time.

Precipitation

Precipitation for the month of April was 109 percent of average for the 2 reporting stations; this is 147 percent of the previous April. The year-to-date precipitation, for the basin, is 70 percent of average; this is 90 percent of last year's amount.

Reservoir

Usable storage in Woodruff Narrows Reservoir is 21,500 acre-feet (38 percent of total capacity) The reservoir is currently storing about 38



Streamflow

The upper Bear River drainage is expected to have much below average runoff this spring. The following 50 percent chance stream flow yields are for the April through September period. Smiths Fork near Border is estimated to yield 47,000 acre-feet (43 percent of normal), and Thomas Fork drainage near the Idaho-Wyoming state line is estimated to yield 6,000 acre-feet or 20 percent of normal. Bear River near the Utah-Wyoming State Line is expected to yield about 60,000 acre feet (48 percent of average), The Bear River near Woodruff is expected to yield about 68,000 acre-feet (about 44 percent of normal).

UPPER BEAR RIVER BASIN
Streamflow Forecasts - May 1, 2001

| Forecast Point | Forecast Period | <<===== Drier ===== Future Conditions ===== Wetter =====>> | | | | | | 30-Yr Avg. (1000AF) |
|---------------------------------------|-----------------|--|-----------------|---------------------------------|----------|-----------------|-----------------|------------------------|
| | | Chance Of Exceeding * | | | | | | |
| | | 90% (1000AF) | 70% (1000AF) | 50% (Most Probable) (1000AF) | (% AVG.) | 30% (1000AF) | 10% (1000AF) | |
| SMITHS FK nr Border, WY | MAY-SEP | 37 | 43 | 47 | 43 | 52 | 60 | 109 |
| THOMAS FK nr WY-ID State Line (Disc.) | MAY-SEP | 3.8 | 5.0 | 6.0 | 20 | 7.2 | 9.4 | 30 |
| Bear R nr UT-WY State Line | APR-SEP | 53 | 57 | 60 | 48 | 63 | 68 | 126 |
| | MAY-SEP | 50 | 54 | 57 | 48 | 60 | 65 | 120 |
| BEAR R nr Woodruff, UT | APR-SEP | 44 | 57 | 68 | 44 | 81 | 105 | 154 |
| | MAY-SEP | 36 | 47 | 57 | 44 | 69 | 91 | 131 |

| UPPER BEAR RIVER BASIN Reservoir Storage (1000 AF) - End of April | | | | | UPPER BEAR RIVER BASIN Watershed Snowpack Analysis - May 1, 2001 | | | |
|--|-----------------|------------------------|-----------|-----|---|----------------------|-------------------|---------|
| Reservoir | Usable Capacity | *** Usable Storage *** | | | Watershed | Number of Data Sites | This Year as % of | |
| | | This Year | Last Year | Avg | | | Last Yr | Average |
| WOODRUFF NARROWS | 57.3 | 21.5 | 57.3 | --- | UPPER BEAR RIVER in Utah | 7 | 96 | 56 |
| | | | | | SMITHS & THOMAS FORKS | 4 | 79 | 49 |
| | | | | | BEAR RIVER abv ID line | 9 | 88 | 49 |
| | | | | | NORTHWEST | 70 | 79 | 50 |
| | | | | | NORTHEAST | 17 | 75 | 56 |
| | | | | | SOUTHEAST | 35 | 100 | 74 |
| | | | | | SOUTHWEST | 35 | 95 | 59 |

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

The average is computed for the 1961-1990 base period.

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

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