United States
Department of
Agriculture

**Natural
Resources
Conservation
Service**

# Wyoming Basin Outlook Report

## June 1, 2010

# 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 mounta during the winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur wh 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 Natural Resources Conservation Service and the National Weather Service. Unless otherwise specified, all forecasts a 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: ( uncertain knowledge of future weather conditions, (2) uncertainty in the forecasting procedure, and (3) errors in the da The forecast, therefore, must be interpreted not as a single value but rather as a range of values with specific probabili of occurrence. The middle of the range is expressed by the 50% exceedance probability forecast, for which there is a chance that the actual flow will be either above or below, the predicted value. To describe the expected range around 50% value, four other forecasts are provided, two smaller values (90% and 70% exceedance probability) and two larg values (30%, and 10% exceedance probability). For example, there is a 90% chance that the actual flow will be more the 90% exceedance probability forecast. The others can be interpreted similarly.

The wider the spread among these values, the more uncertain the forecast is. As the season progresses, forecasts beco more accurate, primarily because a greater portion of the future weather conditions become known; this is reflected by 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 a concerned about receiving too much water (for example, threat of flooding), they may want to base their decisions on 30% or 10% exceedance probability forecasts, or something in between. Regardless of the forecast value users choos 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.

# Wyoming Water Supply Outlook Report

## General

The snow water equivalent (SWE) across Wyoming is above average for June 1st at 124%. April precipitation for the basins varied from 107-178% of average. Year-to-date precipitation for Wyoming basins varied from 73-121% of average. Forecasted runoff varies from 51-131% of average across the Wyoming basins for an overall average of 80%. Basin reservoir levels for Wyoming vary from 64-170% of average for an overall average of 109%.

## Snowpack

Snow water equivalent (SWE), across Wyoming is above average for this time of year at 124%. SWE in the NW portion of Wyoming is now about 100% of average (142% of last year). NE Wyoming SWE is currently about 172% of average (458% of last year). The SE Wyoming SWE is currently about 121% of average (214% of last year). The SW Wyoming SWE is about 105% of average (185% of last year).

## Precipitation

Last month's precipitation was above average across Wyoming. The Yellowstone and Madison River Basins had the lowest precipitation for the month at 107% of average. The Wind River Basin had the highest precipitation amount at 178% of average. The following table displays the major river basins and their departure from average for this month.

| Basin | Departure from average | Basin | Departure from average |
|---|---|---|---|
| **Snake River** | **+19%** | **Upper North Platte River** | **+34%** |
| **Yellowstone & Madison** | **+07%** | **Lower North Platte** | **+20%** |
| **Wind River** | **+78%** | **Little Snake River** | **+48%** |
| **Big Horn** | **+62%** | **Upper Green River** | **+22%** |
| **Shoshone & Clarks Fork** | **+11%** | **Lower Green River** | **+69%** |
| **Powder & Tongue River** | **+72%** | **Upper Bear River** | **+32%** |
| **Belle Fourche & Cheyenne** | **+70%** | | |

## Streams

Stream flow yield for June to September is expected to be below average across Wyoming. Most probable yield for the entire State of Wyoming is forecast to be about 80% (varying from 51-131% of average). The Snake River and Upper Yellowstone & Madison River Basins are expected to yield about 63 and 67% of average, respectively; 51-92% of average for the various forecast points in the basins: Yields from the Wind and Bighorn River Basins are expected to be about 114% and 109% of average, respectively; varying from 88-153% of average in the basins: Yields from the Shoshone and Clarks Fork River Basins of Wyoming are expected to yield about 73% of average; varying from 67-85% of average: Yields from the Powder & Tongue River Basins are expected to be about 121 and 122% of average, respectively; varying from 112-121% of average: Yields for the Belle Fourche & Cheyenne River Basins are expected to be about 131% of average. Yields for the Upper and Lower North Platte River of Wyoming are expected to be about 111 and 118% of average, respectively; varying from 103-208% of average: Yields for the Little Snake, Green River, and Little Bear of Wyoming are expected to be 114, 55, and 99% of average respectively; yield estimates vary from 54-114% of average:

## Reservoirs

Reservoir storage for April varies widely across the state however reservoir storage is at 109% of average for the entire state. Reservoirs on the North Platte River are above average at 115% of average. Reservoirs in the northeast are above average in storage at 106%. Reservoirs in the Wind River Basin are below average at 97%. Reservoirs on the Big Horn are above average at 105%. The Buffalo Bill Reservoir on the Shoshone is about average at 98%. Reservoirs on the Green River are slightly above average at 103%. See following table for further information about reservoir storage.

### Major Reservoirs in Wyoming

| BASIN AREA RESERVOIR | CURRENT AS %CAPACITY | LAST YR AS %CAPACITY | AVERAGE AS %CAPACITY | CURRENT AS %AVERAGE | CURRENT AS %LAST YR |
|---|---|---|---|---|---|
| WYOMING AND SURROUNDING STATES | | | | | |
| ALCOVA | 98 | 98 | 97 | 101 | 100 |
| ANGOSTURA | 92 | 70 | 96 | 96 | 131 |
| BELLE FOURCHE | 95 | 96 | 85 | 111 | 99 |
| BIG SANDY | 69 | 71 | 77 | 90 | 97 |
| BIGHORN LAKE | 71 | 66 | 64 | 111 | 108 |
| BOYSEN | 90 | 97 | 95 | 95 | 93 |
| BUFFALO BILL | 60 | 83 | 61 | 98 | 72 |
| BULL LAKE | 63 | 76 | 63 | 101 | 84 |
| DEERFIELD | 102 | 101 | 89 | 114 | 101 |
| EDEN | | | NO REPORT | | |
| ENNIS LAKE | 89 | 83 | 86 | 104 | 108 |
| FLAMING GORGE | 85 | 80 | 81 | 105 | 107 |
| FONTENELLE | 34 | 67 | 53 | 64 | 50 |
| GLENDO | 108 | 86 | 99 | 108 | 125 |
| GRASSY LAKE | 101 | 100 | 95 | 106 | 101 |
| GUERNSEY | 60 | 60 | 79 | 75 | 99 |
| HEBGEN LAKE | 91 | 87 | 83 | 110 | 106 |
| JACKSON LAKE | 87 | 88 | 68 | 129 | 100 |
| KEYHOLE | 58 | 55 | 61 | 95 | 106 |
| PACTOLA | 104 | 100 | 88 | 117 | 104 |
| PALISADES | 81 | 67 | 74 | 110 | 120 |
| PATHFINDER | 90 | 46 | 76 | 118 | 195 |
| PILOT BUTTE | 90 | 90 | 77 | 117 | 100 |
| SEMINOE | 79 | 70 | 65 | 122 | 113 |
| SHADEHILL | 100 | 91 | 84 | 119 | 110 |
| TONGUE RIVER | 103 | 88 | 61 | 170 | 118 |
| VIVA NAUGHTON RES | 107 | 106 | 92 | 116 | 101 |
| WHEATLAND #2 | 76 | 84 | 60 | 127 | 90 |
| WOODRUFF NARROWS | 100 | 100 | 70 | 142 | 100 |
| **TOTAL 28 RESERVOIRS** | **82** | **76** | **75** | **109** | **108** |
| Raw KAF Tot | Current=10900 | Last Year=10052 | Average=10028 | Capacity=13288 | |

## BASIN SUMMARY OF
## SNOW COURSE DATA

**JUNE 2010**

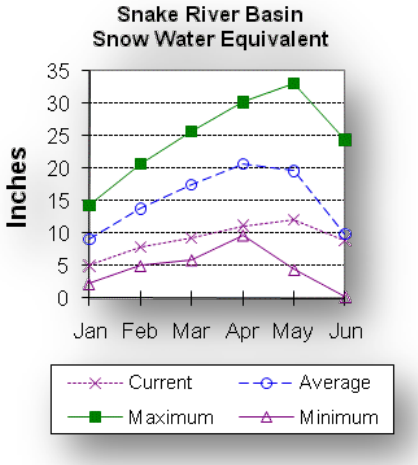
| SNOW COURSE | ELEVATION | DATE | SNOW DEPTH | WATER CONTENT | LAST YEAR | AVERAGE 71-00 |
|---|---|---|---|---|---|---|
| WYOMING Snow Course and SNOTEL Stations | | | | | | |
| BALD MOUNTAIN SNOTEL | 9380 | 6/01/10 | 50 | 18.3 | 11.3 | 16.7 |
| BASE CAMP SNOTEL | 7030 | 6/01/10 | --- | .0 | .0 | .0 |
| BATTLE MTN. SNOTEL | 7440 | 6/01/10 | 0 | .0 | .0 | .0 |
| BEARTOOTH LK. SNOTEL | 9280 | 6/01/10 | 45 | 16.4 | 18.8 | 20.1 |
| BEAR TRAP SNOTEL | 8200 | 6/01/10 | 0 | .0 | .0 | .0 |
| BIG GOOSE SNOTEL | 7760 | 6/01/10 | 15 | 5.6 | .0 | 2.7 |
| BIG SANDY SNOTEL | 9080 | 6/01/10 | 0 | .0 | .0 | 1.4 |
| BLACKWATER SNOTEL | 9780 | 6/01/10 | 56 | 21.7 | 20.8 | 24.7 |
| BLIND BULL SNOTEL | 8900 | 6/01/10 | 44 | 17.3 | 18.6 | 17.8 |
| BLIND PARK SNOTEL | 6870 | 6/01/10 | 0 | .0 | .0 | .0 |
| BONE SPGS. SNOTEL | 9350 | 6/01/10 | 35 | 12.2 | 1.4 | 8.2 |
| BROOKLYN LK. SNOTEL | 10220 | 6/01/10 | 41 | 15.3 | 3.8 | 11.6 |
| BURGESS JCT. SNOTEL | 7880 | 6/01/10 | 23 | 7.6 | .0 | 2.6 |
| BURROUGHS CRK SNOTEL | 8750 | 6/01/10 | 20 | 5.5 | 1.9 | 3.4 |
| CANYON SNOTEL | 8090 | 6/01/10 | 0 | .0 | .0 | 1.3 |
| CASPER MTN. SNOTEL | 7850 | 6/01/10 | 8 | 3.9 | .0 | 4.2 |
| CHALK CK #1 SNOTEL | 9100 | 6/01/10 | 38 | 15.6 | .0 | 12.0 |
| CHALK CK #2 SNOTEL | 8200 | 6/01/10 | 0 | .0 | .0 | .8 |
| CINNABAR PARK SNOTEL | 9690 | 6/01/10 | 29 | 13.4 | 4.4 | 1.5 |
| CLOUD PEAK SNOTEL | 9850 | 6/01/10 | 38 | 15.0 | 5.0 | 7.7 |
| COLE CANYON SNOTEL | 5910 | 6/01/10 | 0 | .0 | .0 | .0 |
| COLD SPRINGS SNOTEL | 9630 | 6/01/10 | 8 | 1.8 | .0 | 1.1 |
| COTTONWOOD CR SNOTEL | 7700 | 6/01/10 | --- | 6.9 | .0 | 5.1 |
| CROW CREEK SNOTEL | 8830 | 6/01/10 | 0 | .0 | .0 | .0 |
| DEER PARK SNOTEL | 9700 | 6/01/10 | 46 | 17.9 | 3.6 | 8.0 |
| DIVIDE PEAK SNOTEL | 8860 | 6/01/10 | --- | 3.9 | .0 | 3.7 |
| DOME LAKE SNOTEL | 8880 | 6/01/10 | 16 | 6.1 | .0 | 3.2 |
| EAST RIM DIV SNOTEL | 7930 | 6/01/10 | --- | .0 | .0 | 1.5 |
| ELKHART PARK SNOTEL | 9400 | 6/01/10 | --- | .0 | .0 | 3.3 |
| EVENING STAR SNOTEL | 9200 | 6/01/10 | 49 | 18.0 | 19.7 | 26.7 |
| GRAND TARGHEE SNOTEL | 9260 | 6/01/10 | 108 | 46.8 | 39.2 | -- |
| GRANITE CRK SNOTEL | 6770 | 6/01/10 | --- | .0 | .0 | .8 |
| GRASSY LAKE SNOTEL | 7270 | 6/01/10 | 28 | 11.5 | .6 | 14.0 |
| GRAVE SPRINGS SNOTEL | 8550 | 6/01/10 | 13 | 4.1 | .0 | 1.8 |
| GROS VENTRE SNOTEL | 8750 | 6/01/10 | 1 | .3 | .0 | 3.7 |
| HANSEN S.M. SNOTEL | 8360 | 6/01/10 | 0 | .0 | .0 | .2 |
| HAMS FORK SNOTEL | 7840 | 6/01/10 | --- | .0 | .0 | .0 |
| HOBBS PARK SNOTEL | 10100 | 6/01/10 | 59 | 23.3 | 5.6 | 10.1 |
| INDIAN CREEK SNOTEL | 9430 | 6/01/10 | --- | 17.7 | 8.2 | 14.7 |
| KELLEY R.S. SNOTEL | 8180 | 6/01/10 | --- | 1.3 | .0 | 1.4 |
| KENDALL R.S. SNOTEL | 7740 | 6/01/10 | 0 | .0 | .0 | .0 |
| KIRWIN SNOTEL | 9550 | 6/01/10 | 21 | 7.4 | .0 | 5.5 |
| LA PRELE SNOTEL | 8380 | 6/01/10 | 0 | .0 | .0 | .8 |
| LEWIS LAKE SNOTEL | 7850 | 6/01/10 | 27 | 11.8 | 10.8 | 17.9 |
| LEWIS LAKE DIVIDE | 7850 | 6/02/10 | 32 | 15.5 | 15.1 | -- |
| LITTLE WARM SNOTEL | 9370 | 6/01/10 | 10 | 3.5 | .0 | 1.9 |
| LOOMIS PARK SNOTEL | 8240 | 6/01/10 | --- | .0 | .0 | 2.3 |
| MARQUETTE SNOTEL | 8760 | 6/01/10 | 20 | 9.1 | .0 | 4.2 |
| MIDDLE POWDER SNOTEL | 7760 | 6/01/10 | 11 | 3.6 | .0 | 2.6 |
| NEW FORK SNOTEL | 8340 | 6/01/10 | 0 | .0 | .0 | .0 |

| SNOW COURSE | ELEVATION | DATE | SNOW DEPTH | WATER CONTENT | LAST YEAR | AVERAGE 71-00 |
|---|---|---|---|---|---|---|
| NORTH FRENCH SNOTEL | 10130 | 6/01/10 | 84 | 37.3 | 22.4 | 23.9 |
| NORTH RAPID CK SNTL | 6130 | 6/01/10 | 0 | .0 | .0 | .0 |
| OLD BATTLE SNOTEL | 9920 | 6/01/10 | 87 | 37.4 | 27.6 | 25.6 |
| OWL CREEK SNOTEL | 8980 | 6/01/10 | 0 | .0 | .0 | .5 |
| PARKERS PEAK SNOTEL | 9400 | 6/01/10 | 48 | 16.1 | 11.9 | 18.5 |
| PHILLIPS BNCH SNOTEL | 8200 | 6/01/10 | 22 | 9.3 | 9.7 | 14.0 |
| POCKET CREEK SNOTEL | 9350 | 6/01/10 | 19 | 3.8 | -- | -- |
| POWDER RVR.PASS SNTL | 9480 | 6/01/10 | 11 | 3.9 | .0 | 2.3 |
| RENO HILL SNOTEL | 8500 | 6/01/10 | 11 | 6.4 | .0 | 3.4 |
| SAGE CK BASIN SNTL | 7850 | 6/01/10 | 0 | .0 | .0 | 2.1 |
| SALT RIVER SNOTEL | 7600 | 6/01/10 | --- | .0 | .0 | .0 |
| SAND LAKE SNOTEL | 10050 | 6/01/10 | 81 | 34.7 | 25.4 | 25.8 |
| SANDSTONE RS SNOTEL | 8150 | 6/01/10 | 0 | .0 | .0 | .0 |
| SHELL CREEK SNOTEL | 9580 | 6/01/10 | 41 | 14.2 | 6.7 | 10.4 |
| SNAKE RV STA SNOTEL | 6920 | 6/01/10 | 0 | .0 | .0 | .0 |
| SNIDER BASIN SNOTEL | 8060 | 6/01/10 | 0 | .0 | .0 | .0 |
| SOUTH BRUSH SNOTEL | 8440 | 6/01/10 | 0 | .0 | .0 | 1.7 |
| SOUTH PASS SNOTEL | 9040 | 6/01/10 | 36 | 11.7 | .0 | 6.3 |
| SPRING CRK. SNOTEL | 9000 | 6/01/10 | 46 | 18.8 | 12.8 | 15.0 |
| ST LAWRENCE ALT SNTL | 8620 | 6/01/10 | 0 | .0 | .0 | .7 |
| SUCKER CREEK SNOTEL | 8880 | 6/01/10 | 37 | 12.3 | .0 | 3.6 |
| SYLVAN LAKE SNOTEL | 8420 | 6/01/10 | 24 | 10.0 | 4.8 | 11.4 |
| SYLVAN ROAD SNOTEL | 7120 | 6/01/10 | 0 | .0 | .0 | .0 |
| THUMB DIVIDE SNOTEL | 7980 | 6/01/10 | 0 | .0 | .0 | 1.9 |
| TIE CREEK SNOTEL | 6870 | 6/01/10 | 0 | .0 | .0 | .0 |
| TIMBER CREEK SNOTEL | 7950 | 6/01/10 | 0 | .0 | .0 | .5 |
| TOGWOTEE PASS SNOTEL | 9580 | 6/01/10 | 60 | 22.3 | 20.1 | 21.9 |
| TOWNSEND CRK SNOTEL | 8700 | 6/01/10 | 20 | 7.4 | .0 | 1.7 |
| TRIPLE PEAK SNOTEL | 8500 | 6/01/10 | 21 | 8.7 | .0 | 4.8 |
| TWO OCEAN SNOTEL | 9240 | 6/01/10 | 57 | 24.6 | 32.0 | 25.2 |
| WEBBER SPRING SNOTEL | 9250 | 6/01/10 | 30 | 13.5 | 1.1 | 6.5 |
| WHISKEY PARK SNOTEL | 8950 | 6/01/10 | 33 | 17.9 | 4.6 | 13.6 |
| WILLOW CREEK SNOTEL | 8450 | 6/01/10 | --- | 17.5 | 9.6 | 14.3 |
| WINDY PEAK SNOTEL | 7900 | 6/01/10 | 0 | .0 | .0 | .1 |
| WOLVERINE SNOTEL | 7650 | 6/01/10 | 0 | .0 | .0 | .0 |
| YOUNTS PEAK SNOTEL | 8350 | 6/01/10 | 18 | 5.5 | 4.0 | 7.0 |

# Snake River Basin

## Snow

The Snake River Basin snow water equivalent (SWE) is below average at 90%. SWE in the Snake River Basin above Jackson Lake is 81% of average. Pacific Creek Basin SWE is 98% of average. Gros Ventre River Basin SWE is 88% of average. SWE in the Hoback River drainage is 67% of average. SWE in the Greys River drainage is 116% of average. In the Salt River area SWE is 126% of average. SWE in the Snake River Basin above Palisades is 90% of average. See the "Basin Summary of Snow Course Data" at the beginning of this report for a detailed listing of snow course information.

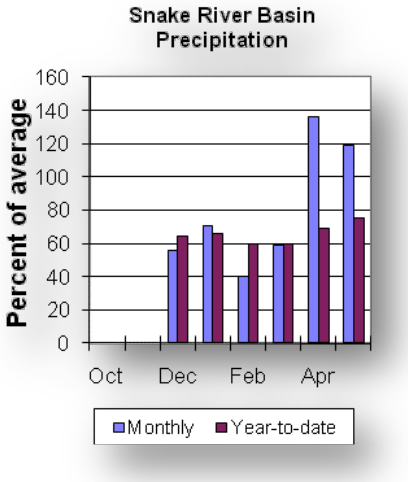



## Precipitation

Precipitation across the basin was above average last month. Monthly precipitation for the basin was 119% of average (142% of last year). Last month's percentages range from 112-218% of average for the 16 reporting stations. Water-year-to-date precipitation is 75% of average for the Snake River Basin (73% of last year). Year-to-date percentages range from 63-92% of average.

## Reservoir

Current reservoir storage is 117% of average for the 3 storage reservoirs in the basin. Grassy Lake storage is about 106% of average (15,300 ac-ft compared to 15,200 last year). Jackson Lake storage is 129% of average (741,100 ac-ft compared to 742,100 ac-ft last year). Palisades Reservoir storage is about 110% of average 1,137,900 ac-ft compared to 944,800 ac-ft last year). Detailed reservoir data is shown on the following page and on the reservoir storage summary at the beginning of this report.




## Streamflow

The 50% exceedance forecasts for June through September are below average for the basin. The Snake near Moran is 375,000 ac-ft (65% of average). Snake above reservoir near Alpine is 1,020,000 ac-ft (55% of average). The Snake near Irwin is 1,560,000 ac-ft (62% of average). The Snake near Heise is 1,670,000 ac-ft (63% of average). Pacific Creek near Moran is 54,000 ac-ft (51% of average). Buffalo Fork above Lava near Moran is 185,000 ac-ft (69% of average). Gros Ventre River at Kelly is 100,000 ac-ft (61% of average). Greys River above Palisades Reservoir is 200,000 ac-ft (82% of average). Salt River near Etna is 220,000 ac-ft (92% of average). See the following page for detailed runoff volumes.

## SNAKE RIVER BASIN

Streamflow Forecasts - June 1, 2010

| Forecast Pt / Forecast Period | <=== Drier === 90% (1000AF) | 70% (1000AF) | Future Conditions — Chance of Exceeding * — 50% (1000AF) | 50% (% AVG.) | === Wetter ===> 30% (1000AF) | 10% (1000AF) | 30 Yr Avg (1000AF) |
|---|---|---|---|---|---|---|---|
| Snake R nr Moran | | | | | | | |
| JUN-JUL | 220 | 265 | 300 | 61 | 335 | 405 | 490 |
| JUN-SEP | 275 | 335 | 375 | 65 | 415 | 505 | 580 |
| SNAKE abv Resv nr Alpine (1,2) | | | | | | | |
| JUN-JUL | 590 | 710 | 790 | 54 | 870 | 1050 | 1470 |
| JUN-SEP | 755 | 915 | 1020 | 55 | 1130 | 1360 | 1840 |
| SNAKE nr Irwin (1,2) | | | | | | | |
| JUN-JUL | 790 | 1060 | 1180 | 61 | 1300 | 1570 | 1950 |
| JUN-SEP | 1120 | 1420 | 1560 | 62 | 1700 | 2000 | 2500 |
| SNAKE near Heise (2) | | | | | | | |
| JUN-JUL | 925 | 1120 | 1250 | 61 | 1380 | 1570 | 2050 |
| JUN-SEP | 1290 | 1520 | 1670 | 63 | 1820 | 2050 | 2650 |
| Pacific Ck at Moran | | | | | | | |
| JUN-JUL | 18.0 | 37 | 50 | 50 | 63 | 82 | 100 |
| JUN-SEP | 21 | 40 | 54 | 51 | 68 | 87 | 106 |
| Buffalo Fork ab Lava nr Moran, WY | | | | | | | |
| JUN-JUL | 111 | 137 | 155 | 69 | 173 | 199 | 225 |
| JUN-SEP | 132 | 164 | 185 | 69 | 205 | 240 | 268 |
| Gros Ventre R at Kelly, WY | | | | | | | |
| JUN-JUL | 23 | 57 | 80 | 67 | 103 | 137 | 119 |
| JUN-SEP | 33 | 73 | 100 | 61 | 127 | 167 | 164 |
| Greys R nr Alpine | | | | | | | |
| JUN-JUL | 127 | 141 | 150 | 80 | 159 | 173 | 188 |
| JUN-SEP | 167 | 187 | 200 | 82 | 215 | 235 | 245 |
| Salt R nr Etna | | | | | | | |
| JUN-JUL | 83 | 117 | 140 | 86 | 163 | 197 | 162 |
| JUN-SEP | 134 | 179 | 210 | 88 | 240 | 285 | 240 |

* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.
The average is computed for the 1971-2000 base period.
(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural volume - actual volume may be affected by upstream water management.
(3) - Median value used in place of average.

## SNAKE RIVER BASIN

Reservoir Storage (1000AF) End of May

| Reservoir | Usable Capacity | ********** Usable Storage ********* This Year | Last Year | Average |
|---|---|---|---|---|
| GRASSY LAKE | 15.2 | 15.3 | 15.2 | 14.4 |
| JACKSON LAKE | 847.0 | 741.1 | 742.1 | 572.6 |
| PALISADES | 1400.0 | 1137.9 | 944.8 | 1033.6 |

## SNAKE RIVER BASIN

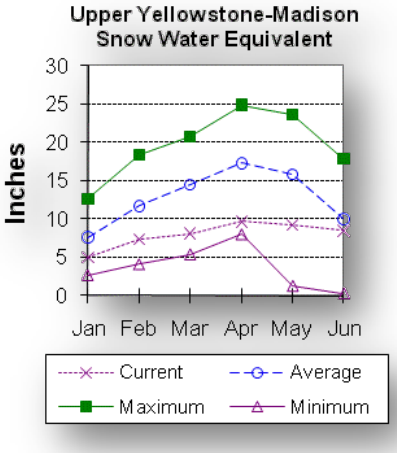
Watershed Snowpack Analysis - June 1, 2010

| Watershed | Number of Data Sites | This Year as Percent of Last Year | Average |
|---|---|---|---|
| SNAKE above Jackson Lake | 5 | 110 | 81 |
| PACIFIC CREEK | 2 | 77 | 98 |
| GROS VENTRE RIVER | 2 | 119 | 88 |
| HOBACK RIVER | 5 | 95 | 67 |
| GREYS RIVER | 4 | 148 | 116 |
| SALT RIVER | 3 | 254 | 126 |
| SNAKE above Palisades | 17 | 124 | 90 |

# Upper Yellowstone & Madison River Basins

## Snow

Snowfall in these basins has been below average so far this year. Snow water equivalent (SWE) is at 87% of average in the Madison drainage. SWE in the Yellowstone drainage is at 88% of average. See the "Basin Summary of Snow Course Data" at the front of this report for details.

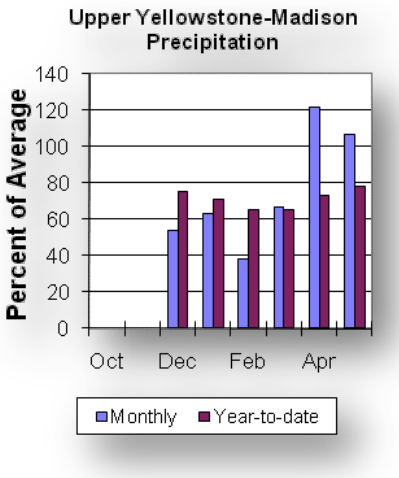



## Precipitation

Last month precipitation in the Madison and Yellowstone drainage was about 107% of average (146% of last year). The 5 reporting stations percentages range from 96-116% of average. Water-year-to-date precipitation is about 78% of average (74% of last year's amount). Year to date percentage ranges from 68-88%.

## Reservoir

Ennis Lake is storing about 36,600 ac-ft of water (89% of capacity, 104% of average or 108% of last year's volume). Hebgen Lake is storing about 345,000 ac-ft of water (91% of capacity, 110% of average or 106% of last year's volume). Detailed reservoir data is shown on the following page and on the reservoir storage summary at the beginning of this report.




## Streamflow

The 50% exceedance forecasts for June through September are below average for the basins. Yellowstone at Lake Outlet is 520,000 ac-ft (75% of average). Yellowstone at Corwin Springs will yield around 1,010,000 ac-ft (69% of average). Yellowstone near Livingston will yield around 1,170,000 ac-ft (69 of average). Hebgen Reservoir inflow is 200,000 ac-ft (65% of average). See the following page for detailed runoff volumes.

## UPPER YELLOWSTONE & MADISON RIVER BASINS

Streamflow Forecasts - June 1, 2010

| Forecast Pt / Forecast Period | <=== Drier === 90% (1000AF) | 70% (1000AF) | Future Conditions Chance of Exceeding * 50% (1000AF) | 50% (% AVG.) | === Wetter ===> 30% (1000AF) | 10% (1000AF) | 30 Yr Avg (1000AF) |
|---|---|---|---|---|---|---|---|
| **YELLOWSTONE at Lake Outlet** | | | | | | | |
| JUN-JUL | 295 | 340 | 370 | 76 | 400 | 445 | 485 |
| JUN-SEP | 410 | 475 | 520 | 75 | 565 | 630 | 695 |
| **YELLOWSTONE RIVER at Corwin Springs** | | | | | | | |
| JUN-JUL | 575 | 695 | 780 | 68 | 865 | 985 | 1140 |
| JUN-SEP | 735 | 900 | 1010 | 69 | 1120 | 1280 | 1460 |
| **YELLOWSTONE RIVER near Livingston** | | | | | | | |
| JUN-JUL | 645 | 795 | 895 | 68 | 995 | 1150 | 1310 |
| JUN-SEP | 845 | 1040 | 1170 | 69 | 1300 | 1500 | 1700 |
| **HEBGEN Reservoir Inflow** | | | | | | | |
| JUN-JUL | 85 | 111 | 128 | 64 | 145 | 171 | 200 |
| JUN-SEP | 148 | 179 | 200 | 65 | 220 | 250 | 310 |

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

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

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

## UPPER YELLOWSTONE & MADISON RIVER BASINS

Reservoir Storage (1000AF) End of May

| Reservoir | Usable Capacity | ********** Usable Storage ********* This Year | Last Year | Average |
|---|---|---|---|---|
| ENNIS LAKE | 41.0 | 36.6 | 34.0 | 35.3 |
| HEBGEN LAKE | 377.5 | 345.0 | 327.0 | 314.7 |

## UPPER YELLOWSTONE & MADISON RIVER BASINS

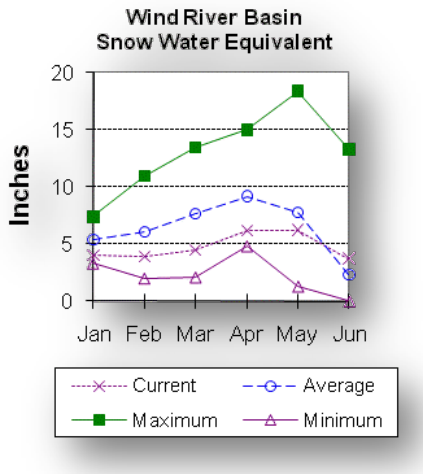
Watershed Snowpack Analysis - June 1, 2010

| Watershed | Number of Data Sites | This Year as Percent of Last Year | Average |
|---|---|---|---|
| MADISON RIVER in WY | 5 | 103 | 87 |
| YELLOWSTONE RIVER in WY | 8 | 107 | 88 |

# Wind River Basin

## Snow

The Wind River Basin above Boysen Reservoir has above average snow water equivalent (SWE 163%) for this time of the year. SWE in the Wind River above Dubois is 115% of average. The Little Wind SWE is 216% of average, and the Popo Agie drainage SWE is about 231% of average. See the "Basin Summary of Snow Course Data" at the front of this report for details.

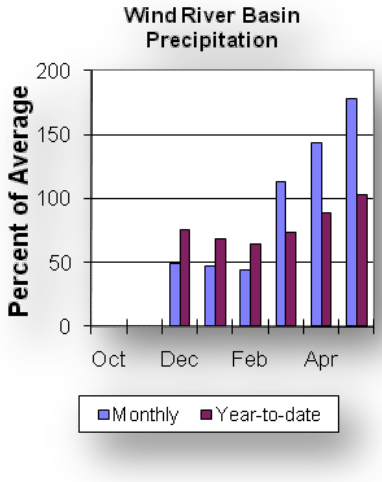



## Precipitation

Last month's precipitation in the basin varied from 148-207% of average. Precipitation, for the basin, was about 178% of average from the 8 reporting stations; that is about 347% of last year's amount. Water year-to-date precipitation is 93% of average and about 101% of last year at this time. Year-to-date percentages range from 77-119% of average.

## Reservoirs

Current storage varies from 95-117% of average. Usable storage in Bull Lake is currently about 96,200 ac-ft (101% of average) - the reservoir is at 84% of last year. Boysen Reservoir is storing about 95% of average (538,500 ac-ft) – the reservoir is about 93% of last year. Pilot Butte is at 117% of average (28,300 ac-ft) – the reservoir is at 100% of last year. Detailed reservoir data is shown on the following page and on the reservoir storage summary at the beginning of this report.




## Streamflow

The 50% exceedance forecasts for the June through September runoff period for the basin are above average. Dinwoody Creek near Burris is 95,000 ac-ft (119% of average). The Wind River above Bull Lake Creek is 395,000 ac-ft (95% of average). Bull Lake Creek near Lenore is 198,000 ac-ft (130% of average). Wind River at Riverton will yield around 545,000 ac-ft (109% of average). Little Popo Agie River near Lander is around 52,000 ac-ft (144% of average). South Fork of Little Wind near Fort Washakie will yield around 90,000 ac-ft (139% of average). Little Wind River near Riverton will yield around 345,000 ac-ft (153% of average). Boysen Reservoir inflow will yield around 695,000 ac-ft (114% of average). See the following page for detailed runoff volumes.

## WIND RIVER BASIN

### Streamflow Forecasts - June 1, 2010

| Forecast Pt / Forecast Period | <=== Drier === 90% (1000AF) | 70% (1000AF) | Future Conditions Chance of Exceeding * 50% (1000AF) | 50% (% AVG.) | === Wetter ===> 30% (1000AF) | 10% (1000AF) | 30 Yr Avg (1000AF) |
|---|---|---|---|---|---|---|---|
| DINWOODY CREEK nr Burris | | | | | | | |
| JUN-JUL | 54 | 59 | 63 | 119 | 67 | 72 | 53 |
| JUN-SEP | 82 | 90 | 95 | 119 | 100 | 108 | 80 |
| WIND RIVER abv Bull Lake Cr (2) | | | | | | | |
| JUN-JUL | 205 | 260 | 300 | 95 | 340 | 395 | 315 |
| JUN-SEP | 285 | 350 | 395 | 95 | 440 | 505 | 415 |
| BULL LAKE CR near Lenore | | | | | | | |
| JUN-JUL | 128 | 142 | 152 | 129 | 162 | 176 | 118 |
| JUN-SEP | 166 | 185 | 198 | 130 | 210 | 230 | 152 |
| WIND RIVER at Riverton (2) | | | | | | | |
| JUN-JUL | 345 | 400 | 440 | 110 | 480 | 535 | 400 |
| JUN-SEP | 430 | 500 | 545 | 109 | 590 | 660 | 500 |
| LT POPO AGIE RIVER nr Lander | | | | | | | |
| JUN-JUL | 38 | 41 | 44 | 152 | 47 | 50 | 29 |
| JUN-SEP | 45 | 49 | 52 | 144 | 55 | 59 | 36 |
| SF LT WIND nr Fort Washakie | | | | | | | |
| JUN-JUL | 61 | 71 | 78 | 144 | 85 | 95 | 54 |
| JUN-SEP | 71 | 82 | 90 | 139 | 98 | 109 | 65 |
| LT WIND RIVER nr Riverton | | | | | | | |
| JUN-JUL | 215 | 270 | 305 | 162 | 340 | 395 | 188 |
| JUN-SEP | 240 | 305 | 345 | 153 | 385 | 450 | 225 |
| BOYSEN RESERVOIR Inflow (2) | | | | | | | |
| JUN-JUL | 420 | 530 | 605 | 117 | 680 | 790 | 516 |
| JUN-SEP | 465 | 600 | 695 | 114 | 790 | 925 | 609 |

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

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

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

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

(3) - Median value used in place of average.

## WIND RIVER BASIN

### Reservoir Storage (1000AF) End of May

| Reservoir | Usable Capacity | ********** Usable Storage ********* This Year | Last Year | Average |
|---|---|---|---|---|
| BULL LAKE | 151.8 | 96.2 | 114.8 | 95.3 |
| BOYSEN | 596.0 | 538.5 | 577.7 | 566.0 |
| PILOT BUTTE | 31.6 | 28.3 | 28.3 | 24.2 |

## WIND RIVER BASIN

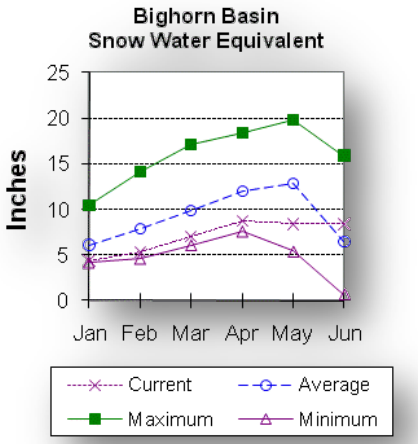
### Watershed Snowpack Analysis - June 1, 2010

| Watershed | Number of Data Sites | This Year as Percent of Last Year | Average |
|---|---|---|---|
| WIND RIVER above Dubios | 3 | 141 | 115 |
| LITTLE WIND | 2 | 416 | 216 |
| POPO AGIE | 4 | 655 | 231 |
| WIND above Boysen Resv | 7 | 246 | 163 |

# Bighorn River Basin

## Snow

The Bighorn River Basin SWE above Bighorn Reservoir is above average at 129%. The Nowood River is at 153% of average. The Greybull River SWE is at 123% of average. Shell Creek SWE is 127% of average. See the "Basin Summary of Snow Course Data" at the front of this report for details.

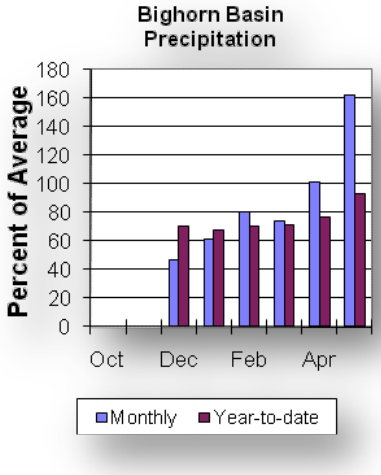



## Precipitation

Last month's precipitation was 162% of average (304% of last year). Sites ranged from 150-207% of average for the month. Year-to-date precipitation is 93% of average; that is 101% of last year at this time. Year-to-date percentages, from the 9 reporting stations, range from 82-119%.

## Reservoir

Boysen Reservoir is currently storing 538,500 ac-ft (95% of average). Bighorn Lake is now at 111% of average (962,300 ac-ft). Boysen is currently storing 93% of last year volume at this time and Big Horn Lake is storing 108% of last year's volume. Detailed reservoir data is shown on the following page and on the reservoir storage summary at the beginning of this report.




## Streamflow

The 50% exceedance forecasts for the June through September runoffs are anticipated to be above average. Boysen Reservoir inflow should yield 695,000 ac-ft (114% of average); the Greybull River near Meeteetse should yield around 144,000 ac-ft (88% of average); Shell Creek near Shell should yield around 55,000 ac-ft (106% of average) and the Bighorn River at Kane should yield around 855,000 ac-ft (109% of average). See the following page for detailed runoff volumes.

## BIGHORN RIVER BASIN

Streamflow Forecasts - June 1, 2010

| Forecast Pt / Forecast Period | <=== Drier === 90% (1000AF) | 70% (1000AF) | Future Conditions — Chance of Exceeding * — 50% (1000AF) | 50% (% AVG.) | === Wetter ===> 30% (1000AF) | 10% (1000AF) | 30 Yr Avg (1000AF) |
|---|---|---|---|---|---|---|---|
| **BOYSEN RESERVOIR Inflow (2)** | | | | | | | |
| JUN-JUL | 420 | 530 | 605 | 117 | 680 | 790 | 516 |
| JUN-SEP | 465 | 600 | 695 | 114 | 790 | 925 | 609 |
| **GREYBULL RIVER nr Meeteetse** | | | | | | | |
| JUN-JUL | 71 | 86 | 96 | 87 | 106 | 121 | 110 |
| JUN-SEP | 111 | 131 | 144 | 88 | 157 | 177 | 163 |
| **SHELL CREEK nr Shell** | | | | | | | |
| JUN-JUL | 33 | 39 | 43 | 108 | 47 | 53 | 40 |
| JUN-SEP | 44 | 50 | 55 | 106 | 60 | 66 | 52 |
| **BIGHORN RIVER at Kane (2)** | | | | | | | |
| JUN-JUL | 510 | 655 | 750 | 111 | 845 | 990 | 675 |
| JUN-SEP | 555 | 735 | 855 | 109 | 975 | 1160 | 785 |

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

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

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

## BIGHORN RIVER BASIN

Reservoir Storage (1000AF) End of May

| Reservoir | Usable Capacity | ********** Usable Storage ********* This Year | Last Year | Average |
|---|---|---|---|---|
| BOYSEN | 596.0 | 538.5 | 577.7 | 566.0 |
| BIGHORN LAKE | 1356.0 | 962.3 | 891.7 | 867.1 |

## BIGHORN RIVER BASIN

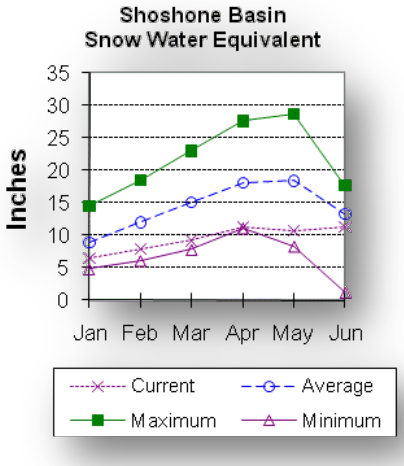
Watershed Snowpack Analysis - June 1, 2010

| Watershed | Number of Data Sites | This Year as Percent of Last Year | Average |
|---|---|---|---|
| NOWOOD RIVER | 2 | 0 | 153 |
| GREYBULL RIVER | 2 | 0 | 123 |
| SHELL CREEK | 3 | 230 | 127 |
| BIGHORN (Boysen-Bighorn) | 7 | 307 | 129 |

# Shoshone and Clarks Fork River Basin

## Snow

Snowpack in these basins is below average for this time of year. Snow Water Equivalent (SWE) is 87% of average in the Shoshone River Basin. The Clarks Fork River Basin SWE is 83% of average. See the "Basin Summary of Snow Course Data" at the front of this report for details.



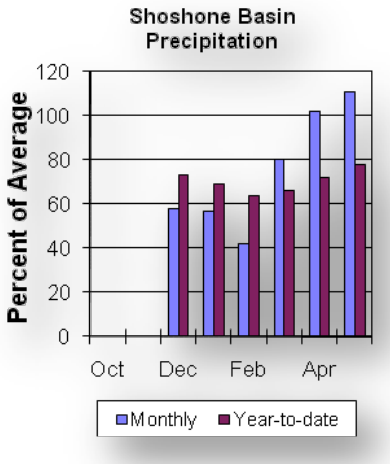

## Precipitation

Precipitation for last month was 111% of average (146% of last year). Monthly percentages range from 58-160% of average. The basin year-to-date precipitation is now 78% of average (76% of last year). Year-to-date percentages range from 57-103% of average for the 8 reporting stations.

## Reservoir

Current storage in Buffalo Bill Reservoir is about 98% of average (72% of last year's storage) – the reservoir is at about 60% of capacity.

Currently, about 387,300 ac-ft are stored in the reservoir compared to 536,000 ac-ft last year. Detailed reservoir data is shown on the following page and on the reservoir storage summary at the beginning of this report.




## Streamflow

The 50% exceedance forecasts for the June through September period are expected to be below average for the basin. The North Fork Shoshone River at Wapiti is 310,000 ac-ft (85% of average). The South Fork of the Shoshone River near Valley is 170,000 ac-ft 81% of average), and the South Fork above Buffalo Bill Reservoir runoff is 130,000 ac-ft (75% of average). The Buffalo Bill Reservoir inflow is expected to yield around 475,000 ac-ft (80% of average). The yield for the Clarks Fork of the Yellowstone near Belfry, Montana is expected to be around 300,000 ac-ft (67% of average). See the following page for detailed runoff volumes.

SHOSHONE & CLARKS FORK RIVER BASINS

**Streamflow Forecasts - June 1, 2010**

| Forecast Pt / Forecast Period | <=== Drier === 90% (1000AF) | 70% (1000AF) | Future Conditions — Chance of Exceeding * — 50% (1000AF) | 50% (% AVG.) | === Wetter ===> 30% (1000AF) | 10% (1000AF) | 30 Yr Avg (1000AF) |
|---|---|---|---|---|---|---|---|
| **NF SHOSHONE RIVER at Wapiti** | | | | | | | |
| JUN-JUL | 200 | 235 | 260 | 85 | 285 | 320 | 305 |
| JUN-SEP | 240 | 280 | 310 | 85 | 340 | 380 | 365 |
| **SF SHOSHONE RIVER nr Valley** | | | | | | | |
| JUN-JUL | 114 | 130 | 140 | 81 | 150 | 166 | 172 |
| JUN-SEP | 136 | 156 | 170 | 81 | 184 | 205 | 210 |
| **SF SHOSHONE RIVER abv Buffalo Bill** | | | | | | | |
| JUN-JUL | 81 | 107 | 124 | 76 | 141 | 167 | 163 |
| JUN-SEP | 80 | 110 | 130 | 75 | 150 | 180 | 174 |
| **BUFFALO BILL DAM Inflow (2)** | | | | | | | |
| JUN-JUL | 305 | 370 | 410 | 80 | 450 | 515 | 515 |
| JUN-SEP | 345 | 420 | 475 | 80 | 530 | 605 | 595 |
| **CLARKS FORK RIVER nr Belfry** | | | | | | | |
| JUN-JUL | 205 | 245 | 270 | 69 | 295 | 335 | 390 |
| JUN-SEP | 215 | 265 | 300 | 67 | 335 | 385 | 445 |

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

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

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

SHOSHONE & CLARKS FORK RIVER BASINS

**Reservoir Storage (1000AF) End of May**

| Reservoir | Usable Capacity | ********** Usable Storage ********* This Year | Last Year | Average |
|---|---|---|---|---|
| **BUFFALO BILL** | 646.6 | 387.3 | 536.0 | 395.7 |

SHOSHONE & CLARKS FORK RIVER BASINS

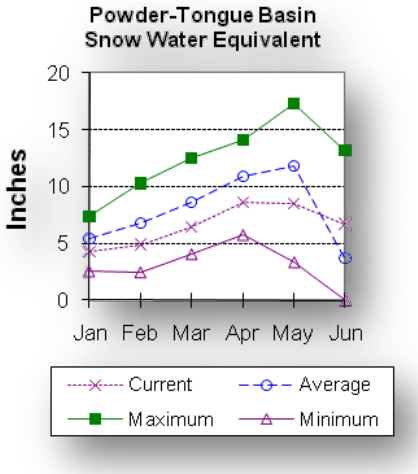
**Watershed Snowpack Analysis - June 1, 2010**

| Watershed | Number of Data Sites | This Year as Percent of Last Year | Average |
|---|---|---|---|
| **SHOSHONE RIVER** | 6 | 130 | 87 |
| **CLARKS FORK in WY** | 7 | 104 | 83 |

# Powder and Tongue River Basins

## Snow

Snow water equivalent (SWE) in the Upper Tongue River drainage is 189% of average. The Goose Creek drainage is 198% of average. SWE in the Clear Creek drainage is 190% of average. Crazy Woman Creek drainage is 170% of average. Upper Powder River drainage SWE is 153% of average. Powder River Basin SWE in Wyoming is 176% of average. For more information see "Basin Summary of Snow Course Data" at the beginning of this report.




## Precipitation

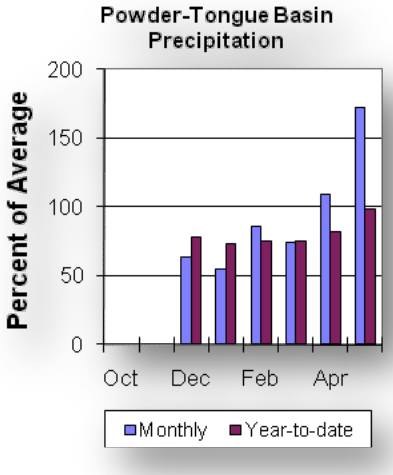
Last month's precipitation was 172% of average for the 9 reporting stations (374% of last year). Monthly percentages range from 145-226% of average. Year-to-date precipitation is 99% of average in the basin; this is 106% of last year at this time. Precipitation for the year ranges from 82-114% of average.

## Reservoir

The Tongue River Reservoir is at 103% of capacity; 170% of average; and 118% of last year at 81,800 ac-ft.

## Streamflow

The 50% exceedance forecasts for the June through September period are expected to be above average for the basins. The yield for Tongue River near Dayton is 82,000 ac-ft (116% of average). Big Goose Creek near Sheridan is 51,000 ac-ft (116% of average). Little Goose Creek near Bighorn is 34,000 ac-ft (117% of average). The Tongue River Reservoir Inflow is 186,000 ac-ft (122% of average). The Middle Fork of the Powder River near Barnum is 8,200 ac-ft (119% of average). The North Fork of the Powder River near Hazelton should yield around 6,600 ac-ft (112% of average). Rock Creek near Buffalo will yield about 18,000 ac-ft (113% of average), and Piney Creek at Kearny should yield about 39,000 ac-ft (122% of average). The Powder River at Moorehead is 152,000 ac-ft (119% of average). The Powder River near Locate is 171,000 ac-ft (121 of average). See the following page for detailed runoff volumes.



## POWDER & TONGUE RIVER BASINS

Streamflow Forecasts - June 1, 2010

| Forecast Pt / Forecast Period | <=== Drier === 90% (1000AF) | 70% (1000AF) | Future Conditions Chance of Exceeding * 50% (1000AF) | 50% (% AVG.) | === Wetter ===> 30% (1000AF) | 10% (1000AF) | 30 Yr Avg (1000AF) |
|---|---|---|---|---|---|---|---|
| TONGUE RIVER nr Dayton (2) | | | | | | | |
| JUN-JUL | 52 | 62 | 68 | 117 | 74 | 84 | 58 |
| JUN-SEP | 63 | 74 | 82 | 116 | 90 | 101 | 71 |
| BIG GOOSE CREEK nr Sheridan | | | | | | | |
| JUN-JUL | 34 | 39 | 43 | 123 | 47 | 52 | 35 |
| JUN-SEP | 41 | 47 | 51 | 116 | 55 | 61 | 44 |
| LITTLE GOOSE CREEK nr Big Horn | | | | | | | |
| JUN-JUL | 21 | 24 | 26 | 124 | 28 | 31 | 21 |
| JUN-SEP | 28 | 31 | 34 | 117 | 37 | 40 | 29 |
| TONGUE RIVER RESERVOIR Inflow (2) | | | | | | | |
| JUN-JUL | 116 | 143 | 161 | 128 | 179 | 205 | 126 |
| JUN-SEP | 130 | 164 | 186 | 122 | 210 | 240 | 153 |
| MIDDLE FORK POWDER nr Barnum | | | | | | | |
| JUN-JUL | 2.8 | 5.4 | 7.1 | 120 | 8.8 | 11.4 | 5.9 |
| JUN-SEP | 3.8 | 6.4 | 8.2 | 119 | 10.0 | 12.6 | 6.9 |
| NORTH FORK POWDER nr Hazelton | | | | | | | |
| JUN-JUL | 3.6 | 4.9 | 5.8 | 114 | 6.7 | 8.0 | 5.1 |
| JUN-SEP | 4.2 | 5.6 | 6.6 | 112 | 7.6 | 9.0 | 5.9 |
| ROCK CREEK nr Buffalo | | | | | | | |
| JUN-JUL | 9.8 | 12.4 | 14.1 | 118 | 15.8 | 18.4 | 12.0 |
| JUN-SEP | 12.8 | 15.9 | 18.0 | 113 | 20 | 23 | 15.9 |
| PINEY CREEK at Kearny | | | | | | | |
| JUN-JUL | 24 | 30 | 35 | 121 | 40 | 46 | 29 |
| JUN-SEP | 26 | 34 | 39 | 122 | 44 | 52 | 32 |
| POWDER RIVER at Moorehead | | | | | | | |
| JUN-JUL | 72 | 104 | 126 | 120 | 148 | 180 | 105 |
| JUN-SEP | 86 | 125 | 152 | 119 | 179 | 220 | 128 |
| POWDER RIVER nr Locate | | | | | | | |
| JUN-JUL | 69 | 112 | 141 | 122 | 170 | 215 | 116 |
| JUN-SEP | 80 | 134 | 171 | 121 | 210 | 260 | 141 |

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

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

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

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

(3) - Median value used in place of average.

## POWDER & TONGUE RIVER BASINS

Reservoir Storage (1000AF) End of May

| Reservoir | Usable Capacity | ********** Usable Storage ********* This Year | Last Year | Average |
|---|---|---|---|---|
| TONGUE RIVER | 79.1 | 81.8 | 69.5 | 48.0 |

## POWDER & TONGUE RIVER BASINS

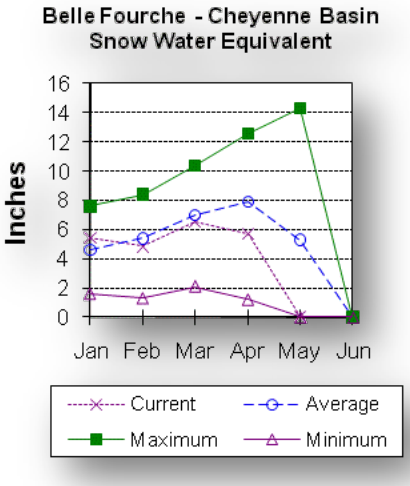
Watershed Snowpack Analysis - June 1, 2010

| Watershed | Number of Data Sites | This Year as Percent of Last Year | Average |
|---|---|---|---|
| UPPER TONGUE RIVER | 7 | 716 | 189 |
| GOOSE CREEK | 2 | 0 | 198 |
| CLEAR CREEK | 2 | 300 | 190 |
| CRAZY WOMAN CREEK | 1 | 0 | 170 |
| UPPER POWDER RIVER | 3 | 0 | 153 |
| POWDER RIVER in WY | 5 | 450 | 176 |

# Belle Fourche and Cheyenne River Basins

## Snow

The Belle Fourche River Basin SWE is melted out at this time of year. For more information see "Basin Summary of Snow Course Data" at the beginning of this report.

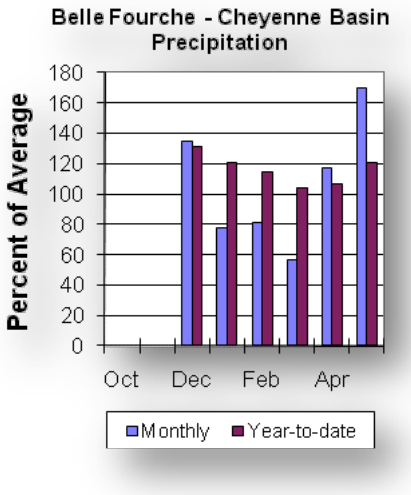



## Precipitation

Precipitation for last month was 170% of average or 340% of last year in the Black Hills. There were 2 reporting stations. Monthly percentages range from 145-212%. Year-to-date precipitation is 121% of average and 112% of last year's amount. Yearly percentages range from 112-132% of average.

## Reservoir

Current reservoir storage is about 106% of average in the basin. Angostura is currently storing 96% of average (112,800 ac-ft), about 92% of capacity. Belle Fourche reservoir is storing 111% of average (169,700 ac-ft), about 95% of capacity. Deerfield reservoir is storing 114% of average (15,500 ac-ft), about 102% of capacity. Keyhole reservoir is storing 95% of average (112,700 ac-ft), about 58% of capacity. Pactola reservoir is storing 119% of average (57,100 ac-ft), about 104% of capacity. Shadehill reservoir is storing 119% of average (81,600 ac-ft), about 100% of capacity. 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 the 50% exceedance forecasts for the June through July period. The Deerfield Reservoir Inflow is 3,200 ac-ft (139% of average). Pactola Reservoir Inflow is expected to yield around 13,300 ac-ft (123% of average). See the following page for detailed runoff volumes.

## BELLE FOURCHE & CHEYENNE RIVER BASINS

Streamflow Forecasts - June 1, 2010

| Forecast Pt / Forecast Period | <=== Drier === 90% (1000AF) | 70% (1000AF) | Future Conditions — Chance of Exceeding * — 50% (1000AF) | 50% (% AVG.) | === Wetter ===> 30% (1000AF) | 10% (1000AF) | 30 Yr Avg (1000AF) |
|---|---|---|---|---|---|---|---|
| **DEERFIELD RESERVOIR Inflow** | | | | | | | |
| JUN-JUL | 1.3 | 1.9 | 3.2 | 139 | 4.5 | 6.4 | 2.3 |
| **PACTOLA RESERVOIR Inflow** | | | | | | | |
| JUN-JUL | 5.3 | 6.7 | 13.3 | 123 | 19.9 | 30 | 10.8 |

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

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

(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.
(3) - Median value used in place of average.

## BELLE FOURCHE & CHEYENNE RIVER BASINS

Reservoir Storage (1000AF) End of May

| Reservoir | Usable Capacity | ********** Usable Storage ********* This Year | Last Year | Average |
|---|---|---|---|---|
| ANGOSTURA | 122.1 | 112.8 | 86.0 | 117.2 |
| BELLE FOURCHE | 178.4 | 169.7 | 171.6 | 152.3 |
| DEERFIELD | 15.2 | 15.5 | 15.3 | 13.6 |
| KEYHOLE | 193.8 | 112.7 | 106.8 | 118.9 |
| PACTOLA | 55.0 | 57.1 | 54.8 | 48.6 |
| SHADEHILL | 81.4 | 81.6 | 74.3 | 68.7 |

## BELLE FOURCHE & CHEYENNE RIVER BASINS

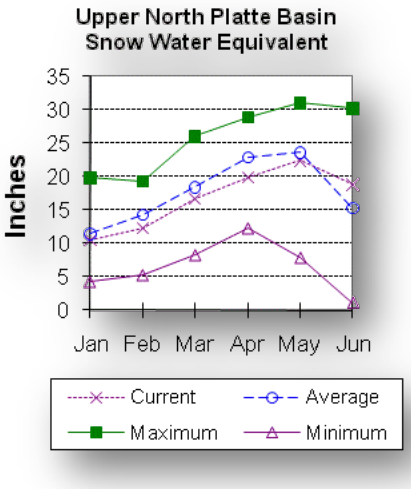
Watershed Snowpack Analysis - June 1, 2010

| Watershed | Number of Data Sites | This Year as Percent of Last Year | Average |
|---|---|---|---|
| BELLE FOURCHE | 2 | 0 | 0 |

# Upper North Platte River Basin

## Snow

The SNOTELS and snow courses above Seminoe Reservoir are showing about 123% of average (SWE) for this time of the year. SWE in the drainage area above Northgate is 93% of average at this time. SWE in the Encampment River drainage is about 151% of average. Brush Creek SWE for the year is about 146% of average. Medicine Bow and Rock Creek drainages SWE are about 134% of average. For more information see "Basin Summary of Snow Course Data" at the beginning of this report.

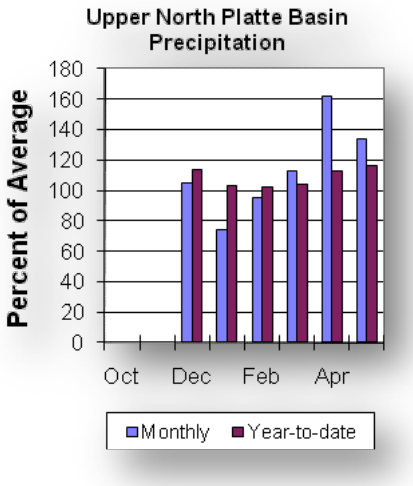



## Precipitation

Eight reporting stations show last month's precipitation at 134% of average or 197% of last year's amount. Precipitation varied from 104-163% of average last month. Total water-year-to-date precipitation is about 116% of average for the basin, which is about 106% of last year's amount. Year to date percentage ranges from 97-134% of average.

## Reservoirs

Seminoe Reservoir is estimated to be storing 805,100 ac-ft or 79% of capacity. Seminoe Reservoir is also storing about 122% of average for this time of the year and 113% of last 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 yields are the 50% exceedance forecasts for the June through September period and are expected to be above average for the Upper North Platte River Basin. Yield for the North Platte River near Northgate will be around 164,000 ac-ft (103% of average). The Encampment River near Encampment is 126,000 ac-ft (117% of average). Rock Creek near Arlington is 51,000 ac-ft (124% of average). The Sweetwater River near Alcova forecast is for 49,000 ac-ft (126% of average). Seminoe Reservoir inflow should be around 555,000 ac-ft (111% of average). See the following table for more detailed information on projected runoff.

## UPPER NORTH PLATTE RIVER BASIN

Streamflow Forecasts - June 1, 2010

| Forecast Pt / Forecast Period | <=== Drier === 90% (1000AF) | 70% (1000AF) | Future Conditions — Chance of Exceeding * — 50% (1000AF) | 50% (% AVG.) | === Wetter ===> 30% (1000AF) | 10% (1000AF) | 30 Yr Avg (1000AF) |
|---|---|---|---|---|---|---|---|
| **NORTH PLATTE RIVER nr Northgate** | | | | | | | |
| JUN-JUL | 92 | 118 | 136 | 102 | 154 | 180 | 133 |
| JUN-SEP | 110 | 142 | 164 | 103 | 186 | 220 | 159 |
| **ENCAMPMENT RIVER nr Encampment** | | | | | | | |
| JUN-JUL | 90 | 105 | 115 | 116 | 125 | 140 | 99 |
| JUN-SEP | 99 | 115 | 126 | 117 | 137 | 153 | 108 |
| **ROCK CREEK nr Arlington** | | | | | | | |
| JUN-JUL | 40 | 44 | 47 | 124 | 50 | 54 | 38 |
| JUN-SEP | 43 | 48 | 51 | 124 | 54 | 59 | 41 |
| **SWEETWATER RIVER nr Alcova** | | | | | | | |
| JUN-JUL | 31 | 38 | 43 | 130 | 48 | 55 | 33 |
| JUN-SEP | 35 | 43 | 49 | 126 | 55 | 63 | 39 |
| **SEMINOE RESERVOIR Inflow** | | | | | | | |
| JUN-JUL | 340 | 425 | 485 | 112 | 545 | 630 | 435 |
| JUN-SEP | 380 | 485 | 555 | 111 | 625 | 730 | 500 |

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

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

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

## UPPER NORTH PLATTE RIVER BASIN

Reservoir Storage (1000AF) End of May

| Reservoir | Usable Capacity | ********** Usable Storage ********* This Year | Last Year | Average |
|---|---|---|---|---|
| SEMINOE | 1016.7 | 805.1 | 715.3 | 658.3 |

## UPPER NORTH PLATTE RIVER BASIN

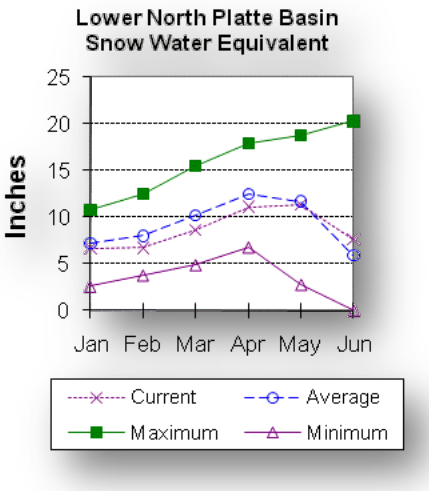
Watershed Snowpack Analysis - June 1, 2010

| Watershed | Number of Data Sites | This Year as Percent of Last Year | Average |
|---|---|---|---|
| N PLATTE above Northgate | 5 | 158 | 93 |
| ENCAMPMENT RIVER | 3 | 207 | 151 |
| BRUSH CREEK | 2 | 167 | 146 |
| MEDICINE BOW & ROCK CREEKS | 2 | 171 | 134 |
| N PLATTE above Seminoe | 13 | 179 | 123 |

# Lower North Platte River Basin

## Snow

SWE for the North Platte River Basin is at 129% of average. The Sweetwater drainage SWE is currently at 207% of average. Deer and LaPrele Creek SWE are at 152% of average. SWE for the North Platte above the Laramie River drainage is 130% of average. SWE for the Laramie River above Laramie is 171% of average. SWE for the Little Laramie River is 219% of average. The Laramie River above mouth, SWE is 161% of average. For more information see "Basin Summary of Snow Course Data" at the beginning of this report.

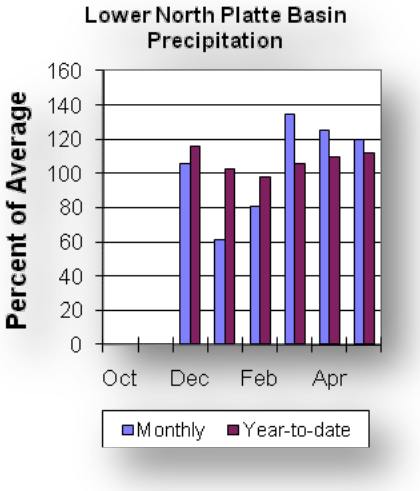



## Precipitation

Last month's precipitation was 120% of average or 211% of last year's amount. Of the 8 reporting stations, percentages for the month range from 90-197%. The water year-to-date precipitation for the basin is currently 112% of average (114% of last year). Year-to-date percentages range from 91-155% of average.

## Reservoir

The Lower North Platte River basin reservoir storage is above average at 115%. Reservoir storage is as follows: Alcova 179,900 ac-ft (101% of average); Glendo 545,600 ac-ft (108% of average); Guernsey 27,200 ac-ft (75% of average); Pathfinder 911,800 ac-ft (118% of average); Seminoe 805,100 ac-ft (122% of average); and Wheatland #2 74,800 ac-ft (127% of average):




## Streamflow

The following yields are based on the 50% exceedance forecasts for the June through September period. The Sweetwater River near Alcova is forecast to yield about 49,000 ac-ft (126% of average). Deer Creek at Glenrock is forecast to yield 12,700 ac-ft (208% of average). LaPrele Creek above the reservoir is forecast to yield 8,300 ac-ft (160% of average). North Platte - Alcova to Orin Gain is forecast to yield 53,000 ac-ft (161% of average). North Platte River below Glendo Reservoir is 550,000 ac-ft (117% of average), and below Guernsey Reservoir is anticipated to yield around 590,000 ac-ft (118% of average). Laramie River near Woods Landing should yield around 114,000 ac-ft (128% of average). The Little Laramie near Filmore should produce about 67,000 ac-ft (143% of average). See the following table for more detailed information on projected runoff.

## LOWER NORTH PLATTE, SWEETWATER & LARAMIE RIVER BASINS

### Streamflow Forecasts - June 1, 2010

| Forecast Pt / Forecast Period | <=== Drier === 90% (1000AF) | 70% (1000AF) | Future Conditions — Chance of Exceeding * — 50% (1000AF) | 50% (% AVG.) | === Wetter ===> 30% (1000AF) | 10% (1000AF) | 30 Yr Avg (1000AF) |
|---|---|---|---|---|---|---|---|
| **SWEETWATER RIVER nr Alcova** | | | | | | | |
| JUN-JUL | 31 | 38 | 43 | 130 | 48 | 55 | 33 |
| JUN-SEP | 35 | 43 | 49 | 126 | 55 | 63 | 39 |
| **DEER CREEK at Glenrock** | | | | | | | |
| JUN-JUL | 4.8 | 9.1 | 12.0 | 218 | 14.9 | 19.2 | 5.5 |
| JUN-SEP | 6.0 | 10.0 | 12.7 | 208 | 15.4 | 19.4 | 6.1 |
| **LaPRELE CREEK abv Reservoir** | | | | | | | |
| JUN-JUL | 3.7 | 6.2 | 7.9 | 161 | 9.6 | 12.1 | 4.9 |
| JUN-SEP | 4.2 | 6.6 | 8.3 | 160 | 10.0 | 12.4 | 5.2 |
| **NORTH PLATTE - Alcova to Orin Gain** | | | | | | | |
| JUN-JUL | 15.6 | 24 | 39 | 156 | 54 | 75 | 25 |
| JUN-SEP | 21 | 39 | 53 | 161 | 67 | 89 | 33 |
| **NORTH PLATTE RIVER blw Glendo Res (2)** | | | | | | | |
| JUN-JUL | 400 | 465 | 510 | 116 | 555 | 620 | 440 |
| JUN-SEP | 430 | 500 | 550 | 117 | 600 | 670 | 470 |
| **NORTH PLATTE RIVER blw Guernsey Res (2)** | | | | | | | |
| JUN-JUL | 400 | 480 | 535 | 119 | 590 | 670 | 450 |
| JUN-SEP | 445 | 530 | 590 | 118 | 650 | 735 | 500 |
| **LARAMIE RIVER nr Woods** | | | | | | | |
| JUN-JUL | 76 | 89 | 98 | 127 | 107 | 120 | 77 |
| JUN-SEP | 89 | 104 | 114 | 128 | 124 | 139 | 89 |
| **LITTLE LARAMIE RIVER nr Filmore** | | | | | | | |
| JUN-JUL | 50 | 55 | 59 | 141 | 63 | 68 | 42 |
| JUN-SEP | 56 | 63 | 67 | 143 | 71 | 78 | 47 |

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

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

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

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

(3) - Median value used in place of average.

## LOWER NORTH PLATTE, SWEETWATER & LARAMIE RIVER BASINS

### Reservoir Storage (1000AF) End of May

| Reservoir | Usable Capacity | ********** Usable Storage ********* This Year | Last Year | Average |
|---|---|---|---|---|
| ALCOVA | 184.3 | 179.9 | 180.2 | 178.8 |
| GLENDO | 506.4 | 545.6 | 437.3 | 503.4 |
| GUERNSEY | 45.6 | 27.2 | 27.5 | 36.2 |
| PATHFINDER | 1016.5 | 911.8 | 468.0 | 775.1 |
| SEMINOE | 1016.7 | 805.1 | 715.3 | 658.3 |
| WHEATLAND #2 | 98.9 | 74.8 | 83.2 | 59.0 |

## LOWER NORTH PLATTE, SWEETWATER & LARAMIE RIVER BASINS

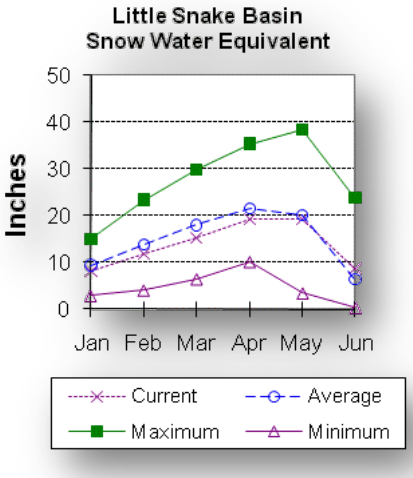
### Watershed Snowpack Analysis - June 1, 2010

| Watershed | Number of Data Sites | This Year as Percent of Last Year | Average |
|---|---|---|---|
| SWEETWATER | 2 | 822 | 207 |
| DEER & LaPRELE CREEKS | 2 | 0 | 152 |
| N PLATTE abv Laramie R. | 17 | 201 | 130 |
| LARAMIE RIVER abv Laramie | 5 | 252 | 171 |
| LITTLE LARAMIE RIVER | 2 | 350 | 219 |
| LARAMIE RIVER above mouth | 6 | 272 | 161 |
| NORTH PLATTE | 17 | 198 | 129 |

# Little Snake River Basin

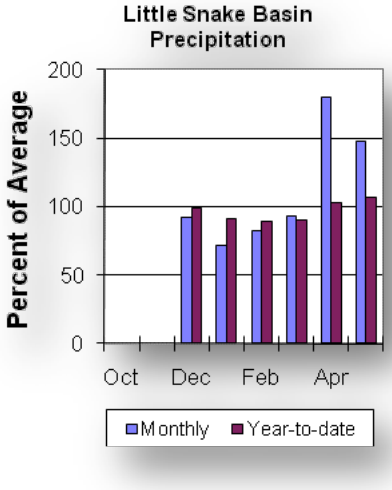
## Snow

Currently, snow water equivalent (SWE) in the Little Snake River drainage is 134% of average. For more information see "Basin Summary of Snow Course Data" at the beginning of this report.




## Precipitation

Precipitation across the basin was 148% of average (194% of last year) for the 5 reporting stations. Last month's precipitation ranged from 118-163% of average. The Little Snake River basin water-year-to-date precipitation is currently 107% of average (95% of last year). Year-to-date percentages range from 96-119% of average.




## Reservoir

High Savery Dam -Pending

## Streamflow

The 50% exceedance forecast for the June through July time frame on the Little Snake River drainage is expected to be above average this year. The Little Snake River near Slater should yield around 80,000 ac-ft (113% of average). The Little Snake River near Dixon is estimated to yield around 152,000 ac-ft (114% of average). See the following table for more detailed information on projected runoff.

## LITTLE SNAKE RIVER BASIN

**Streamflow Forecasts - June 1, 2010**

| Forecast Pt / Forecast Period | <=== Drier === 90% (1000AF) | 70% (1000AF) | Future Conditions — Chance of Exceeding * — 50% (1000AF) | 50% (% AVG.) | === Wetter ===> 30% (1000AF) | 10% (1000AF) | 30 Yr Avg (1000AF) |
|---|---|---|---|---|---|---|---|
| **Little Snake River nr Slater** | | | | | | | |
| APR-JUL | 154 | 167 | 176 | 111 | 186 | 200 | 159 |
| JUN-JUL | 58 | 71 | 80 | 113 | 90 | 106 | 71 |
| **Little Snake River nr Dixon** | | | | | | | |
| APR-JUL | 265 | 320 | 365 | 111 | 410 | 485 | 330 |
| JUN-JUL | 98 | 129 | 152 | 114 | 177 | 220 | 133 |

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

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

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

## LITTLE SNAKE RIVER BASIN

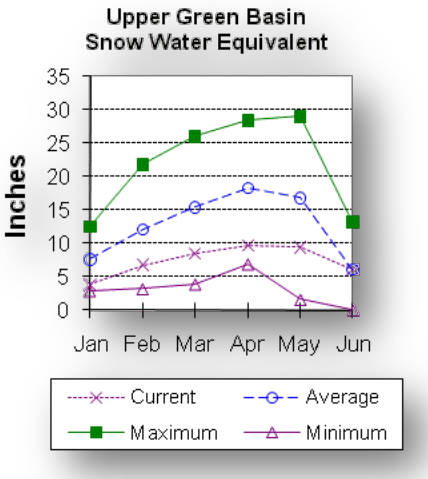
**Watershed Snowpack Analysis - June 1, 2010**

| Watershed | Number of Data Sites | This Year as Percent of Last Year | Average |
|---|---|---|---|
| LITTLE SNAKE RIVER | 6 | 184 | 134 |

# Upper Green River Basin

## Snow

SWE in the Green River Basin above Warren Bridge is about 4% of average. SWE for the West Side of Upper Green River Basin is about 120% of average. Newfork River Basin SWE is now about 0% of average. Big Sandy-Eden Valley Basin is 0% of average. SWE in the Green River Basin above Fontenelle Reservoir is about 100% of average. For more information see "Basin Summary of Snow Course Data" at the beginning of this report.

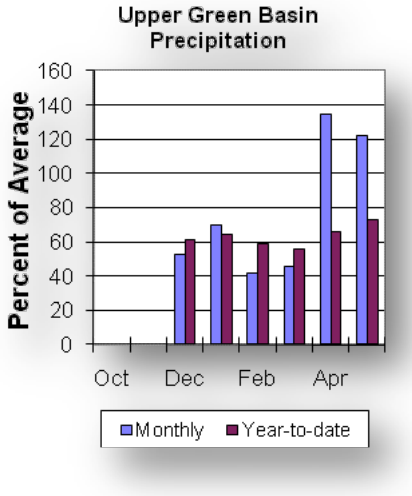



## Precipitation

The 11 reporting precipitation sites in the basin were 122% of average last month (146% of last year). Last month's precipitation varied from 69-199% of average. Water year-to-date precipitation is about 73% of average (73% of last year). Year to date percentage of average ranges from 63-91% for the reporting stations.

## Reservoir

Storage in Big Sandy Reservoir is 26,400 ac-ft or 69% of capacity. This is 90% of average. Eden Reservoir - No Report. Fontenelle Reservoir is 116,200 ac-ft or 34% of capacity; 64% of average. This is 67% of average for the Upper Green River basin. Detailed reservoir data is shown on the following page and on the reservoir storage summary at the beginning of this report.




## Streamflow

The 50% exceedance forecasts for the June through July runoff period in the Upper Green River Basin are forecast to be below average. The yield on the Green River at Warren Bridge is 115,000 ac-ft (62% of average). Pine Creek above Fremont Lake is 47,000 ac-ft (56% of average). New Fork River near Big Piney is 180,000 ac-ft (61% of average). Fontenelle Reservoir Inflow is estimated to be 310,000 ac-ft (54% of average), and Big Sandy near Farson is expected to be around 24,000 ac-ft (62% of average). See the following table for more detailed information on projected runoff.

## UPPER GREEN RIVER BASIN

### Streamflow Forecasts - June 1, 2010

| Forecast Pt / Forecast Period | <=== Drier === 90% (1000AF) | 70% (1000AF) | Future Conditions Chance of Exceeding * 50% (1000AF) | 50% (% AVG.) | === Wetter ===> 30% (1000AF) | 10% (1000AF) | 30 Yr Avg (1000AF) |
|---|---|---|---|---|---|---|---|
| **Little Snake River nr Slater** | | | | | | | |
| APR-JUL | 154 | 167 | 176 | 111 | 186 | 200 | 159 |
| JUN-JUL | 58 | 71 | 80 | 113 | 90 | 106 | 71 |
| **Little Snake River nr Dixon** | | | | | | | |
| APR-JUL | 265 | 320 | 365 | 111 | 410 | 485 | 330 |
| JUN-JUL | 98 | 129 | 152 | 114 | 177 | 220 | 133 |

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

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

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

## UPPER GREEN RIVER BASIN

### Reservoir Storage (1000AF) End of May

| Reservoir | Usable Capacity | ********** Usable Storage ********* This Year | Last Year | Average |
|---|---|---|---|---|
| BIG SANDY | 38.3 | 26.4 | 27.3 | 29.4 |
| EDEN | | NO REPORT | | |
| FONTENELLE | 344.8 | 116.2 | 230.4 | 181.9 |

## UPPER GREEN RIVER BASIN

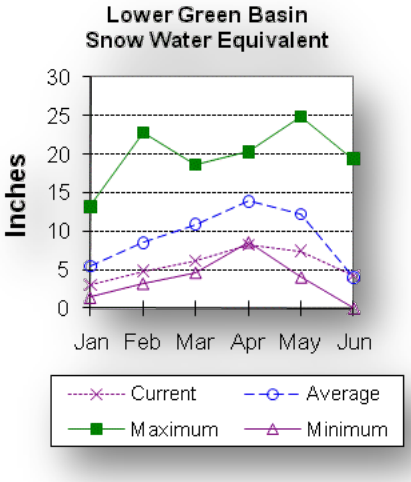
### Watershed Snowpack Analysis - June 1, 2010

| Watershed | Number of Data Sites | This Year as Percent of Last Year | Average |
|---|---|---|---|
| GREEN above Warren Bridge | 4 | 141 | 4 |
| UPPER GREEN (West Side) | 5 | 158 | 120 |
| NEWFORK RIVER | 2 | 0 | 0 |
| BIG SANDY/EDEN VALLEY | 1 | 0 | 0 |
| GREEN above Fontenelle | 11 | 159 | 100 |

# Lower Green River Basin

## Snow

SWE in the Green River Basin above Flaming Gorge is 105% of average. SWE in the Hams Fork Basin is 118% of average. Blacks Fork Basin SWE is currently 147% of average. In the Henrys Fork drainage SWE is 0%. For more information see "Basin Summary of Snow Course Data" at the beginning of this report.

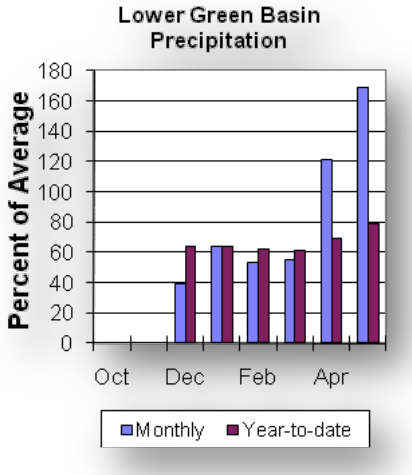



## Precipitation

Precipitation was above average for the 3 reporting stations during last month at 169% of average or 216% of last year. Precipitation ranged from 148-181% of average for the month. The basin year-to-date precipitation is currently 79% of average (88% of last year). Year-to-date percentages range from 75-91% of average.

## Reservoirs

Fontenelle Reservoir is currently storing 116,200 ac-ft; this is 64% of average (50% of last year). Flaming Gorge is currently storing 3,191 ac-ft; this is 105% of average (107% of last year). Viva Naughton is currently storing 45,300 ac-ft, 116% of average or 107% of capacity. Detailed reservoir data is shown on the following page and on the reservoir storage summary at the beginning of this report.




## Streamflow

The 50% exceedance forecasts for the June through July runoff period in the Lower Green River Basin are forecast to be below average. The Green River near Green River is forecast to yield about 315,000 ac-ft (54% of average). The Blacks Fork near Robertson is forecast to yield 55,000 ac-ft (82% of average). East Fork of Smiths Fork near Robertson is forecast to yield 16,500 ac-ft (79% of average). Hams Fork below Pole Creek near Frontier is forecast to be 21,000 ac-ft (64% of average). The Hams Fork Inflow to Viva Naughton Reservoir is forecast to be 25,000 ac-ft (68% of average). The Flaming Gorge Reservoir inflow will be about 410,000 ac-ft (56% of average). See the following table for more detailed information on projected runoff.

## LOWER GREEN RIVER BASIN

### Streamflow Forecasts - June 1, 2010

| Forecast Pt / Forecast Period | <=== Drier === 90% (1000AF) | 70% (1000AF) | Future Conditions — Chance of Exceeding * — 50% (1000AF) | 50% (% AVG.) | === Wetter ===> 30% (1000AF) | 10% (1000AF) | 30 Yr Avg (1000AF) |
|---|---|---|---|---|---|---|---|
| **Green River nr Green River, WY (2)** | | | | | | | |
| APR-JUL | 305 | 365 | 415 | 47 | 465 | 550 | 875 |
| JUN-JUL | 205 | 265 | 315 | 54 | 365 | 450 | 580 |
| **Blacks Fork nr Robertson** | | | | | | | |
| APR-JUL | 55 | 63 | 69 | 73 | 75 | 85 | 95 |
| JUN-JUL | 41 | 49 | 55 | 82 | 61 | 71 | 67 |
| **EF of Smiths Fork nr Robertson (2)** | | | | | | | |
| APR-JUL | 15.2 | 18.5 | 21 | 72 | 24 | 28 | 29 |
| JUN-JUL | 10.7 | 14.0 | 16.5 | 79 | 19.2 | 24 | 21 |
| **Hams Fk blw Pole Ck nr Frontier** | | | | | | | |
| APR-JUL | 31 | 35 | 38 | 59 | 41 | 46 | 65 |
| JUN-JUL | 14.3 | 18.2 | 21 | 64 | 24 | 29 | 33 |
| **Hams Fork Inf to Viva Naughton Res** | | | | | | | |
| APR-JUL | 40 | 45 | 50 | 56 | 55 | 64 | 89 |
| JUN-JUL | 14.2 | 20 | 25 | 68 | 30 | 39 | 37 |
| **Flaming Gorge Reservoir Inflow (2)** | | | | | | | |
| APR-JUL | 415 | 505 | 575 | 48 | 650 | 770 | 1190 |
| JUN-JUL | 250 | 340 | 410 | 56 | 485 | 605 | 730 |

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

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

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

## LOWER GREEN RIVER BASIN

### Reservoir Storage (1000AF) End of May

| Reservoir | Usable Capacity | ********** Usable Storage ********* This Year | Last Year | Average |
|---|---|---|---|---|
| FONTENELLE | 344.8 | 116.2 | 230.4 | 181.9 |
| FLAMING GORGE | 3749.0 | 3191.0 | 2991.0 | 3040.0 |
| VIVA NAUGHTON RES | 42.4 | 45.3 | 44.8 | 39.0 |

## LOWER GREEN RIVER BASIN

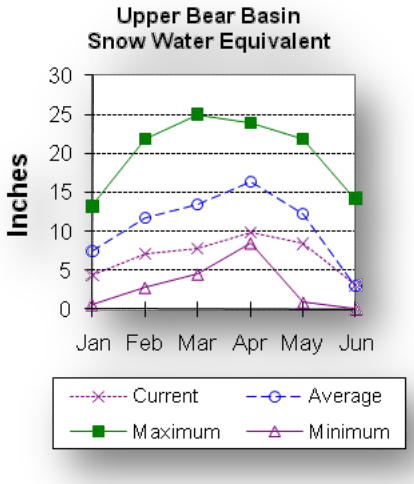
### Watershed Snowpack Analysis - June 1, 2010

| Watershed | Number of Data Sites | This Year as Percent of Last Year | Average |
|---|---|---|---|
| HAMS FORK RIVER | 3 | 232 | 118 |
| BLACKS FORK | 2 | 371 | 147 |
| HENRYS FORK | 2 | 0 | 0 |
| GREEN above Flaming Gorge | 18 | 185 | 105 |

# Upper Bear River Basin

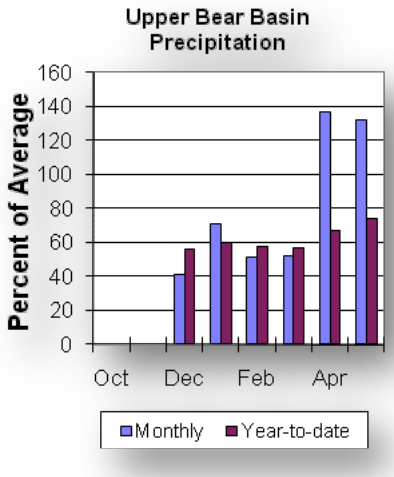
## Snow

Snow water equivalent (SWE) in the Upper Bear River Basin in Utah is estimated to be 93% of average. SWE in the Wyoming portion of the Bear River drainage (Smiths and Thomas Forks) is estimated at 118% of average. Bear River Basin SWE, above the Idaho State line, is 103% of average. For more information see "Basin Summary of Snow Course Data" at the beginning of this report.




## Precipitation

Precipitation for last month was 132% of average for the 2 reporting stations; this is 145% of the precipitation received last year. The year-to-date precipitation, for the basin, is 74% of average; this is 82% of last year's amount.




## Reservoir

Storage in Woodruff Narrows reservoir, is 57,300 ac-ft (142% of average). Current reservoir storage is about 100% of capacity. Reservoir storage last year at this time was 57,300 ac-ft.

## Streamflow

The following 50% exceedance forecasts are for the June through September period. The Bear River near the Utah-Wyoming State Line is 81,000 ac-ft (99% of average). The Bear River above Reservoir near Woodruff is 71,000 ac-ft (100% of average). The Smiths Fork River near Border is 61,000 ac-ft (79% of average). See the following table for more detailed information on projected runoff.

## UPPER BEAR RIVER BASIN

### Streamflow Forecasts - June 1, 2010

| Forecast Pt / Forecast Period | <=== Drier === 90% (1000AF) | 70% (1000AF) | Future Conditions — Chance of Exceeding * — 50% (1000AF) | 50% (% AVG.) | === Wetter ===> 30% (1000AF) | 10% (1000AF) | 30 Yr Avg (1000AF) |
|---|---|---|---|---|---|---|---|
| **Bear R nr UT-WY State Line** | | | | | | | |
| APR-JUL | 69 | 81 | 89 | 79 | 97 | 109 | 113 |
| APR-SEP | 81 | 95 | 105 | 84 | 115 | 129 | 125 |
| JUN-JUL | 48 | 58 | 65 | 93 | 72 | 82 | 70 |
| JUN-SEP | 62 | 73 | 81 | 99 | 89 | 100 | 82 |
| **Bear R abv Resv. nr Woodruff** | | | | | | | |
| APR-JUL | 68 | 86 | 99 | 73 | 112 | 130 | 136 |
| APR-SEP | 84 | 102 | 115 | 81 | 128 | 146 | 142 |
| JUN-JUL | 34 | 47 | 55 | 86 | 63 | 76 | 64 |
| JUN-SEP | 49 | 62 | 71 | 100 | 80 | 93 | 71 |
| **Smiths Fk nr Border, WY** | | | | | | | |
| APR-JUL | 32 | 47 | 57 | 55 | 67 | 82 | 103 |
| APR-SEP | 58 | 71 | 80 | 66 | 89 | 102 | 121 |
| JUN-JUL | 26 | 33 | 38 | 62 | 43 | 50 | 61 |
| JUN-SEP | 46 | 55 | 61 | 79 | 67 | 76 | 77 |

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

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

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

## UPPER BEAR RIVER BASIN

### Reservoir Storage (1000AF) End of May

| Reservoir | Usable Capacity | ********** Usable Storage ********* This Year | Last Year | Average |
|---|---|---|---|---|
| WOODRUFF NARROWS | 57.3 | 57.3 | 57.3 | 40.3 |

## UPPER BEAR RIVER BASIN

### Watershed Snowpack Analysis - June 1, 2010

| Watershed | Number of Data Sites | This Year as Percent of Last Year | Average |
|---|---|---|---|
| UPPER BEAR RIVER in Utah | 5 | 1081 | 93 |
| SMITHS & THOMAS FORKS | 3 | 232 | 118 |
| BEAR RIVER abv ID line | 6 | 329 | 103 |
| NORTHWEST | 47 | 142 | 100 |
| NORTHEST | 11 | 458 | 172 |
| SOUTHEAST | 20 | 214 | 121 |
| SOUTHWEST | 25 | 185 | 105 |

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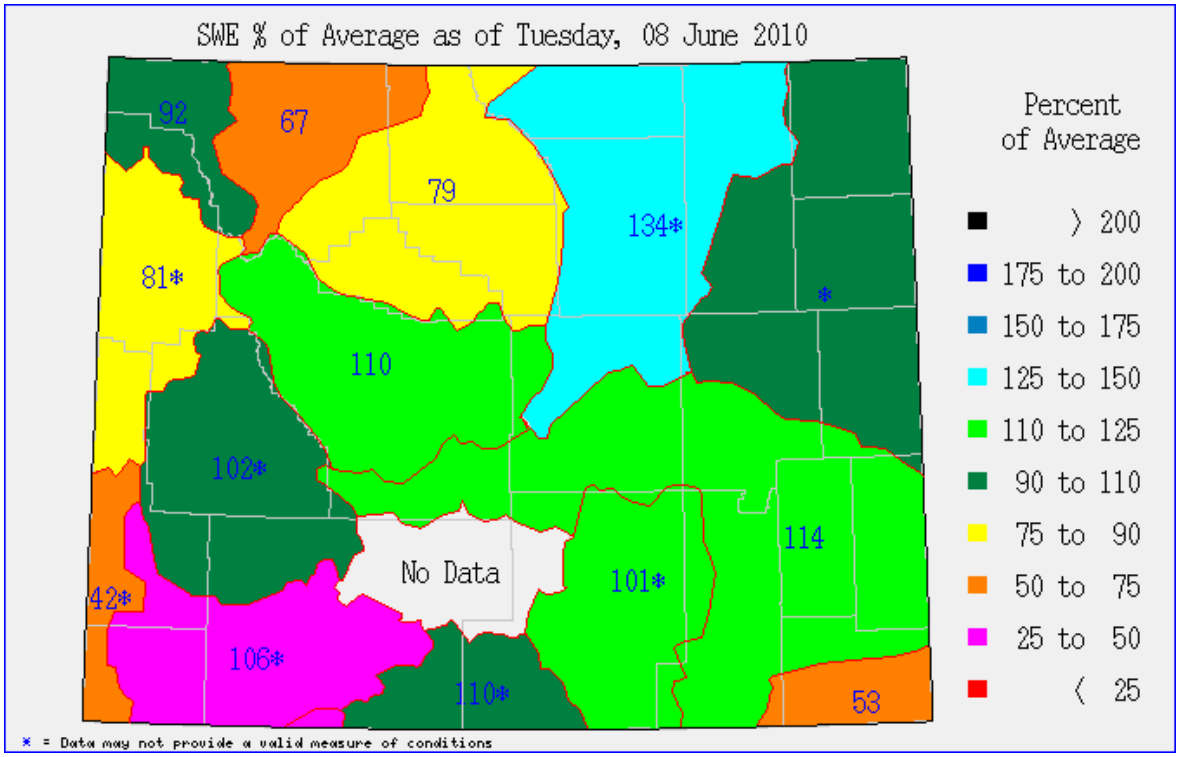

## The Following Agencies and Organizations Cooperate with the Natural Resources Conservation Service on the Snow Survey Work.

**FEDERAL:**

United States Department of the Interior (National Park Service)

United States Department of Agriculture (Forest Service)

United States Department of the Interior (Bureau of Reclamation)

United States Department of Commerce NOAA (National Weather Service)

**State:**

The Wyoming State Engineer's Office

The University of Wyoming

**Local:**

The City of Cheyenne

The City of Rawlins

# Wyoming
# Basin Outlook Report

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Casper, WY

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