

Natural Resources Conservation Service

Wyoming Basin Outlook Report February 1, 2002



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

For more water supply and resource management information, contact:

Dave Taylor Water Supply Specialist 100 East "B" Street Casper, WY 82601 (307) 261-6481

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 below normal for this time of the year. SWE averages for the State are about 71 percent of normal for this time of the year. Precipitation for January was generally below average for the State. Year-to-date precipitation is below average for the year. Reservoir levels vary from below average to average – average to above average in the northeast. Generally, forecast runoff is well below average. Forecast runoff varies from 8 to 90 percent of average. There may be some direct diversion irrigated areas that will be significantly short of water. In some cases, reservoirs may not fill with the spring runoff.

Snowpack

Less than average, and so some cases much less than average, snowfall has occurred this past month. SWE is generally below average for the entire State. SWE in the northwestern portion of the State is now at 79 percent of average (155 percent of last year). Northeast Wyoming SWE is currently about 67 percent of average (86 percent of last year). The southeast portion is currently about 60 percent of average SWE (78 percent of last year). And the southwest is about 76 percent of average (112 percent of last year).

Precipitation

January precipitation was below normal over the entire State. Some of the State had a very severe shortage of precipitation. The southwest portion of the State was near 50 percent below average for the month of January. The southeast was also near 50 percent, while the rest of the State received from 9 to 40 percent below average. 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	-28%	Upper North Platte River	-48%
Yellowstone & Madison	-10%	Lower North Platte	-51%
Wind River	-21%	Little Snake River	-52%
Big Horn	-33%	Upper Green River	-40%
Shoshone & Clarks Fork	-9%	Lower Green River	-48%
Powder & Tongue River	-29%	Upper Bear River	-50%
Belle Fourche & Cheyenne	-37%		

Streams

Stream flow yield is expected to be below average across the State. Most probable yield for the State is forecast to be about 58 percent of average. The northwest part of the State is expected to yield about 67 percent of normal -- yield estimates vary from 45 to 90 percent of normal. Yield from the northeast portion of Wyoming will be below average (about 53 percent of average) -- yield estimates vary from 47 to 63 percent of average for the various forecast points. The southeast portion of the state will be about 40 percent of normal -- yield estimates range from 8 to 67 percent of normal. The southwest portion of Wyoming varies from 55 to 81 percent of average -- mean estimated yield for the forecast points in southwest Wyoming is about 70 percent of average.

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Reservoirs

Reservoir storage varies from above average to well below average for this time of the year. See following table for further information about reservoir storage.

Major Reservoirs in Wyoming

BASIN WIDE RESERVOIR SUMMARY

FOR THE END OF JANUARY 2002

BASIN AREA	CURRENT AS LA	ST YR AS	AVERAGE AS	CURRENT AS	CURRENT AS
RESERVIOR	% CAPACITY %	CAPACITY	% CAPACITY	% AVERAGE	% LAST YR
ALCOVA	35				
ANGOSTURA	81			101	
BELLE FOURCHE	76	81	57		
BIG SANDY	35	46	74		77
BIGHORN LAKE	35	46	74	47	77
BOYSEN	35	46	74	47	77
BUFFALO BILL	35	46	74	47	77
BULL LAKE	35	46	74	47	77
DEERFIELD	98	99	84	116	99
EDEN	35	46	74	47	77
ENNIS LAKE	35	46	74	47	77
FLAMING GORGE	76	80	79	96	95
FONTENELLE	35	46	74	47	77
GLENDO	35	46	74	47	77
GRASSY LAKE	62	84	78	80	74
GUERNSEY	35	46	74	47	77
HEBGEN LAKE	35	46	74	47	77
JACKSON LAKE	17	75	58	30	23
KEYHOLE	80	82	53	151	97
PACTOLA	96	100	83	115	96
PALISADES	35	46	74	47	77
PATHFINDER	35	46	74	47	77
PILOT BUTTE	35	46	74	47	77
SEMINOE	79	78	63	124	101
SHADEHILL	63	49	60	104	127
VIVA NAUGHTON RES	35	46	74	47	77
WHEATLAND #2	35	46	74	47	77
WOODRUFF NARROWS	35	46	74	47	77
GLENDO PROJECT USE	35	46	74	47	77
KENDRICK PROJECT	35	46	74	47	77
NORTH PLATTE PROJ	35	46	74	47	77

Basin Summary of Snow Course Data

BASIN SUMMARY OF SNOW COURSE DATA

FEBRUARY 2002

WYOMING Snow Course and SNOTEL Stations ALBANY 9400 1/30/02 19 3.6 6.1 9.5 ASTER CREEK 7750 1/30/02 62 17.2 7.8 19.6 BALD MOUNTAIN SNOTEL 9380 2/01/02 9.4 5.5 12.7 BARNEDGE DIVIDE 440 2/01/02 9.4 5.5 1.4 BEARLOCE DIVIDE 4680 1/29/02 4 .5 3.4 1.6 BEARTOOTH LK. SNOTEL 9280 2/01/02 13.2 7.4 16.2 BEG GOOSE 7760 12.2 4.6 3.8 12.2 4.6 BIG GOOSE SNOTEL 7760 2/01/02 4.5 3.8 BIG SANDY SNOTEL 9080 2/01/02 12.0 7.7 16.6 BLIND PARK 8620 1/29/02 42 10.0 7.9 12.2 BIG GOOSE SNOTEL 9780 2/01/02 12.0 7.7 16.6 BLIND PARK SNOTEL 8900 2/01/02			N DATE	DEPTH	WATER CONTENT	YEAR	71-00
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CHALK CK #1 SNOTEL 9100 2/01/02 48 12.6 10.9 15.3 CHALK CK #2 SNOTEL 8200 2/01/02 37 9.0 6.5 9.9 CLOUD PEAK SNOTEL 9850 2/01/02 7.4 6.2 8.1 COLD SPRINGS SNOTEL 9630 2/01/02 3.0 1.7 6.0 COTTONWOOD CR SNOTEL 9630 2/01/02 12.3 10.6 14.2 DARBY CANYON 8250 1/30/02 47 11.7 12.2 15.5 DEER PARK SNOTEL 9700 2/01/02 9.0 7.5 11.7 DITCH CREEK 6870 1/29/02 10 1.4 2.4 2.8 DIVIDE PEAK SNOTEL 8860 2/01/02 8.7 9.3 13.0 DOME LAKE SNOTEL 8880 2/01/02 6.0 6.1 7.9 DU NOIR 8760 1/29/02 23 3.6 2.4 5.8	CCC CAMP						8.4
CHALK CK #2 SNOTEL 8200 2/01/02 37 9.0 6.5 9.9 CLOUD PEAK SNOTEL 9850 2/01/02 7.4 6.2 8.1 COLD SPRINGS SNOTEL 9630 2/01/02 3.0 1.7 6.0 COTTONWOOD CR SNOTEL 7700 2/01/02 12.3 10.6 14.2 DARBY CANYON 8250 1/30/02 47 11.7 12.2 15.5 DEER PARK SNOTEL 9700 2/01/02 9.0 7.5 11.7 DITCH CREEK 6870 1/29/02 10 1.4 2.4 2.8 DIVIDE PEAK SNOTEL 8860 2/01/02 8.7 9.3 13.0 DOME LAKE SNOTEL 8880 2/01/02 6.0 6.1 7.5 DU NOIR 8760 1/29/02 23 3.6 2.4 5.8	CHALK CK #1 SNOTEL	9100			12.6	10.9	15.3
CLOUD PEAK SNOTEL 9850 2/01/02 7.4 6.2 8.1 COLD SPRINGS SNOTEL 9630 2/01/02 3.0 1.7 6.0 COTTONWOOD CR SNOTEL 7700 2/01/02 12.3 10.6 14.2 DARBY CANYON 8250 1/30/02 47 11.7 12.2 15.5 DEER PARK SNOTEL 9700 2/01/02 9.0 7.5 11.7 DITCH CREEK 6870 1/29/02 10 1.4 2.4 2.8 DIVIDE PEAK SNOTEL 8860 2/01/02 8.7 9.3 13.0 DOME LAKE SNOTEL 8880 2/01/02 6.0 6.1 7.9 DU NOIR 8760 1/29/02 23 3.6 2.4 5.8						6.5	9.9
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DARBY CANYON 8250 1/30/02 47 11.7 12.2 15.9 DEER PARK SNOTEL 9700 2/01/02 9.0 7.5 11.7 DITCH CREEK 6870 1/29/02 10 1.4 2.4 2.8 DIVIDE PEAK SNOTEL 8860 2/01/02 8.7 9.3 13.0 DOME LAKE SNOTEL 8880 2/01/02 6.0 6.1 7.9 DU NOIR 8760 1/29/02 23 3.6 2.4 5.8	COLD SPRINGS SNOTEL	9630	2/01/02		3.0	1.7	6.0
DARBY CANYON 8250 1/30/02 47 11.7 12.2 15.9 DEER PARK SNOTEL 9700 2/01/02 9.0 7.5 11.7 DITCH CREEK 6870 1/29/02 10 1.4 2.4 2.8 DIVIDE PEAK SNOTEL 8860 2/01/02 8.7 9.3 13.0 DOME LAKE SNOTEL 8880 2/01/02 6.0 6.1 7.9 DU NOIR 8760 1/29/02 23 3.6 2.4 5.8	COTTONWOOD CR SNOTEL	7700	2/01/02		12.3	10.6	14.2
DITCH CREEK68701/29/02101.42.42.8DIVIDE PEAK SNOTEL88602/01/028.79.313.0DOME LAKE SNOTEL88802/01/026.06.17.9DU NOIR87601/29/02233.62.45.8			1/30/02	47	11.7	12.2	15.9
DIVIDE PEAK SNOTEL88602/01/028.79.313.0DOME LAKE SNOTEL88802/01/026.06.17.9DU NOIR87601/29/02233.62.45.8	DEER PARK SNOTEL	9700	2/01/02		9.0	7.5	11.7
DIVIDE PEAK SNOTEL88602/01/028.79.313.0DOME LAKE SNOTEL88802/01/026.06.17.9DU NOIR87601/29/02233.62.45.8	DITCH CREEK	6870	1/29/02	10	1.4	2.4	2.8
DOME LAKE SNOTEL88802/01/026.06.17.9DU NOIR87601/29/02233.62.45.8							13.0
		8880	2/01/02		6.0	6.1	7.9
EAST RIM DIV SNOTEL 7930 2/01/02 6.5 4.9 8.5	DU NOIR		1/29/02	23		2.4	5.8
	EAST RIM DIV SNOTEL	7930	2/01/02		6.5	4.9	8.5
ELBO RANCH 7100 2/01/02 31 7.0 3.6 8.0	ELBO RANCH	7100	2/01/02	31	7.0	3.6	8.0
ELKHART PARK SNOTEL 9400 2/01/02 7.2 6.9 8.8	ELKHART PARK SNOTEL	9400	2/01/02		7.2	6.9	8.8
EVENING STAR SNOTEL 9200 2/01/02 16.0 7.8 19.7	EVENING STAR SNOTEL	9200	2/01/02		16.0	7.8	19.7

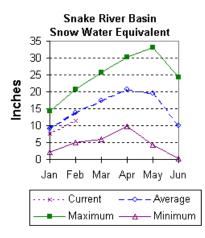
SNOW COURSE	ELEVATION			CONTENT	YEAR	
FOUR MILE MEADOWS	7960			6.5		
		1/31/02				
FOXPARK						
GEYSER CREEK	8500	1/29/02		3.4		4.8
GLADE CREEK	7040	1/30/02		12.0		
GRANITE CRK SNOTEL	6770 8860	2/01/02		9.5	7.1	
GRANNIER MEADOWS	8860	1/30/02	32	6.7	4.3	9.1
GRASSY LAKE SNOTEL	7270	2/01/02		18.5		
GRAVE SPRINGS SNOTEL					3.8	5.7
GREYS BOUNDARY	5720			8.8		8.3
GROS VENTRE SNOTEL	8750	2/01/02		8.7	5.9	9.5
GROVER PARK DIVIDE	7000	1/28/02	30	6.4	3.7	7.5
HAIRPIN TURN	9480	1/30/02	20	3.7	7.5	11.1
HANSEN S.M. SNOTEL	8360	2/01/02		2.8	2.5	4.2
HAMS FORK SNOTEL	7840	2/01/02		7.3	6.0	8.4
HASKINS CREEK	8980		49	15.2	16.2	19.6
HOBBS PARK SNOTEL				6.3	4.5	9.8
HUCKLEBERRY DIVIDE				10.3	7.5	14.2
INDIAN CREEK SNOTEL	9430	2/01/02		14.6	10.9	17.6
JACKPINE CREEK	7350	1/30/02		13.2	9.7	14.7
KELLEY R.S. SNOTEL	8180	2/01/02		9.1		
KENDALL R.S. SNOTEL				7.0		9.8
KIRWIN SNOTEL	9550					
		2/01/02		5.9		
LA BONTE	8450	0 / 01 / 00				3.9
LAKE CAMP	7780				3.4	
LA PRELE SNOTEL	8380	2/01/02		2.9	7.0	
LARSEN CREEK	9020				5.0	8.4
LEWIS LAKE SNOTEL		2/01/02		18.9	9.6	
LEWIS LAKE DIVIDE	7850					27.4
LIBBY LODGE	8750	1/30/02		2.7	5.7	7.8
LITTLE BEAR RUN	6240	1/29/02	7	1.1	3.6	2.6
LITTLE WARM SNOTEL	9370	2/01/02		6.2	4.1	
LOOMIS PARK SNOTEL	8240	2/01/02		10.5	7.6	11.2
LUPINE CREEK	7380	1/28/02	28	4.9	2.9	6.4
MALLO	6420	1/29/02	13	2.1	6.3	5.2
MARQUETTE SNOTEL				3.0	1.8	5.9
MARQUETTE SNOTEL MEDICINE LODGE LAKES	9340	1/30/02	22	4.4	4.1	7.5
MIDDLE FORK					2.4	
MIDDLE POWDER SNOTEL		2/01/02		3.5	5.0	7.2
MORAN	6750	1/31/02		8.0	5.2	9.3
MOSS LAKE	9800	1/30/02	26	6.6	9.8	15.3
MOUNT TOM	5560	1/30/02	10	.9	9.8 6.8	3.2
		2/01/02		.9 5.8	5.8	
NEW FORK SNOTEL	8340					7.7
NORRIS BASIN	7500	1/30/02	27	6.2	2.9	7.6
NORTH BARRETT CREEK	9400	0/05/05		10.0	12.1	12.8
NORTH FRENCH SNOTEL	10130	2/01/02		13.0	16.2	18.4
NORTH RAPID CK SNTL	6130	2/01/02		3.4	5.9	
NORTH TONGUE	8450	1/30/02	26	5.7	5.2	8.4
OLD BATTLE SNOTEL	9920	2/01/02		12.4	14.8	20.0
OLD FAITHFUL	7400	1/30/02	33	7.4	3.3	9.5
ONION GULCH	8780				2.0	5.2
OWL CREEK SNOTEL	8980	2/01/02		2.0	1.9	3.4
PARKERS PEAK SNOTEL	9400	2/01/02		12.5	9.2	14.8

	LEVATION			WATER CONTENT		
PHILLIPS BENCH SNTL		2/01/02		15.4		18.5
POCKET CREEK	9350	1/31/02		8.2		
POISON MEADOWS	8500	1, 51, 62	52	0.2		
POLE MOUNTAIN	8700	1/30/02	20	2.9		
POWDER RVR.PASS SNI		2/01/02				
				6.2		
RANGER CREEK	8120	1,30,02		0.2	2.3	
RENO HILL SNOTEL	8500	2/01/02		4.7		
REUTER CANYON	6280	1/31/02	14	2.5		
ROWDY CREEK	8300	1/31/02 1/28/02	40	11.5	7.8	14.6
RYAN PARK		1/30/02	30	6.5	7.2	
SALT RIVER SNOTEL		2/01/02		7.5		
SAND LAKE SNOTEL		2/01/02		9.8		
SANDSTONE SNOTEL	8150	2/01/02		4.5	7.0	9.7
SAWMILL DIVIDE	9260	1/30/02	29	5.8	5.2	8.8
SHELL CREEK SNOTEL		2/01/02			6.6	
SHERIDAN R.S.	7750			3.1		
SNAKE RIVER STATION		_//			7.4	
SNAKE RV STA SNOTEL		1/30/02	42	10.3	6.6	
SNIDER BASIN SNOTEL		2/01/02				
SNOW KING MTN	7660					
SOLDIER PARK	7660 8780	1/29/02 1/27/02	11	1.6	1.1	
SOUR DOUGH	8460	1/27/02	14	2.8	1.8	4.2
SOUTH BRUSH SNOTEL		2/01/02		5.7		
SOUTH PASS SNOTEL		2/01/02		8.2		
SPRING CRK. SNOTEL		2/01/02		15.2	11.1	17.4
ST LAWRENCE ALT SNI		2/01/02			1.7	4.8
SUCKER CREEK SNOTEL	8880	2/01/02		5.5	4.9	7.2
SYLVAN LAKE SNOTEL	8420	2/01/02			8.2	
SYLVAN ROAD SNOTEL	7120	2/01/02		6.4	4.1	8.8
T CROSS RANCH	7900	1/28/02	27	4.2	2.0	5.3
TETON PASS W.S.	7740	2/01/02	49	14.5	11.0	18.5
THUMB DIVIDE SNOTEL	7980	1/30/02	38			11.8
THUMB DIVIDE	7980				4.2	12.2
TIE CREEK SNOTEL	6870	2/01/02		1.9	2.7	4.0
TIMBER CREEK SNOTEL	7950	2/01/02		1.2	1.3	3.6
TOGWOTEE PASS SNOTE	L 9580	2/01/02	59	14.1	10.5	16.9
TOWNSEND CRK SNOTEL	8700	2/01/02		3.2	3.2	5.6
TRIPLE PEAK SNOTEL	8500	2/01/02		13.5	9.8	16.6
TURPIN MEADOWS	6900	1/31/02	29	5.9	3.1	7.6
TWO OCEAN SNOTEL	9240	2/01/02		17.7	11.7	19.0
TYRELL RANGER STA.	8300	1/27/02		3.2	1.9	5.2
UPPER SPEARFISH	6500	1/28/02	10	1.8	5.4	4.7
WARREN PEAK SNOTEL	6520					
WEBBER SPRING SNOTE		2/01/02		9.6	10.5	
WHISKEY PARK SNOTEL		2/01/02		11.4	12.5	
WILLOW CREEK SNOTEL	8450	2/01/02		14.9	12.1	20.2
WINDY PEAK SNOTEL	7900	2/01/02		1.8	5.3	4.5
WOLVERINE SNOTEL	7650	2/01/02		5.0	4.3	8.6
WOOD ROCK G.S.	8440	1/30/02		4.6	3.6	6.5
YOUNTS PEAK SNOTEL	8350	2/01/02		9.1	4.6	12.0

Snake River Basin (1)

Snow

The Snake River basin snow water equivalent (SWE) is below normal. Snake above Jackson Lake is 82 percent of average (164% of last year at this time). Pacific Creek is 86 percent of average (157% of last year at this time). Gros Ventre River is 87 percent of average (149% of last year at this time). Hoback River is 82 percent of average (139% of last year at this time), Greys River is 83 percent of average (138% of last year at this time). Salt River is 82 percent of average (131% of last year at this time). Snake River Basin above Palisades is 82 percent of average (149% 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 below average last month. Monthly precipitation, for the basin, was 99 percent of average. Last months percentages range from 46 to 95 percent of average. Water-year-to-date precipitation is 87 percent of normal for the Snake River basin (143 percent of last year at this time) Year-to-date percentages range from 76 to 96 percent of average.

Reservoir.

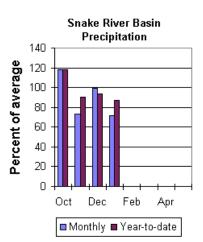
Current reservoir storage compared to average for the three storage reservoirs in the

basin is below average. Grassy Lake storage is about 80 percent of average (9,400 acre feet compared to 12,700 last year). Jackson Lake storage is 30 percent of average (146,300 acre feet compared to 635,200 acre feet last year). Palisades Reservoir storage is about 47 percent of average (489,200 acre feet compared to 638,700 acre feet last year).

Streamflow.

The most probable runoff, based on the 50 percent chance yield, for

April through September runoff is forecast below average for the basin. The Snake near Moran is expected to yield 775,000 acre-feet (86 percent of normal). Yield from the Snake River above Palisades Reservoir is estimated to be 2,455,000 acre-feet (90 percent of normal). The 50 percent chance yield near Heise is expected to be 3,450,000 acre-feet (83 percent of normal). Pacific Creek at Moran is expected to yield about 149,000 acre-feet (84 percent of average). Greys River above Palisades Reservoir is estimated to yield 355,000 acre-feet (90 percent of normal). Salt River near Etna is estimated to have a yield of 370,000 acre-feet (88 percent of normal).



			SNAKE RI	VER BA	SIN					
					February 1,					
						nditions ==				
Forecast Point	Forecast	 =======			Chance Of E	xceeding * =				
	Period	90%	70%	5	50% (Most	Probable)	30%	; 1	L0%	30-Yr Avg.
			(1000 <i>A</i>		(1000AF)			AF) (10		(1000AF)
SNAKE near Moran (1,2)	APR-SEP	584	715		775	86	83		966	905
SNAKE above Palisades (2)	APR-SEP	2020	2279	•	2455	90	263	1 2	2890	2730
PALISADES RESERVOIR INFLOW (1,2)	APR-SEP	2379	2978	3	3250	84	352	2 4	121	3870
SNAKE near Heise (2)	APR-SEP	2699	3146	5	3450	83	375	4 4	201	4160
PACIFIC CREEK at Moran	APR-SEP	115	135	5	149	84	16	3	183	178
GREYS above Palisades	APR-SEP	269	320		355	90	39	0	441	395
SALT near Etna	APR-SEP	256	324	L	370	88	41	.6	484	420
SNAKE F Reservoir Storage (100	IVER BASIN 0 AF) - End	of Januar	v			Watershed Sr	SNAKE RIV nowpack An			rv 1, 2002
			-							
Reservoir	Usable		le Stora	age ***	Water		N	umber of		Year as % of
Reservoir	Capacity	Year	Last Year	Avq		sned	Dat	a Sites		====== Yr Average
GRASSY LAKE	15.2	9.4	12.7	11.	8 SNAKE	above Jacks	son Lake	9	164	82
JACKSON LAKE	847.0	146.3	635.2	490.	1 PACIF	IC CREEK		3	157	86
PALISADES	1400.0	489.2	638.7	1040.	3 GROS	VENTRE RIVER	ł	4	149	85
					HOBAC	K RIVER		6	139	82
					GREYS	RIVER		5	138	83
					SALT	RIVER		5	131	82
					SNAKE	above Palis	ades	30	149	82

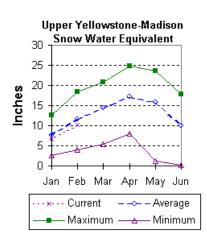
The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
The value is natural volume - actual volume may be affected by upstream water management.

7

Upper Yellowstone and Madison River Basins (2)

Snow

Snowfall in these basins this year has been below average for this time of the year, but better than last year. Snow water equivalent (SWE) is about 92 percent of average (201 percent of last year) in the Madison drainage. SWE in the Yellowstone drainage is about 83 percent of average (165 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.



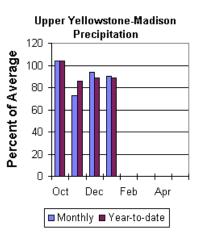
Precipitation

Last month's precipitation in the Madison and Yellowstone drainage was about 90 percent of average for the 5 reporting stations -percentage range was from 70 to 103 percent of average. Water-year-todate precipitation is about 89 percent of average (145 percent of last year's amount). Year to date percentage ranges from 85 to 95 percent

Reservoir

Ennis Lake did not report this month, but last month was storing 30,700 acre-feet (75 percent of capacity) – 97 percent of average. Hebgen Lake is storing about 286,900

acre-feet of water (76 percent of capacity) – 108 percent of average. Hebgen Lake is storing about 96 percent and Ennis Lake, last month, was storing about 100 percent of last year's volume.



Streamflow

All the following forecasts are based on the 50 percent chance runoff

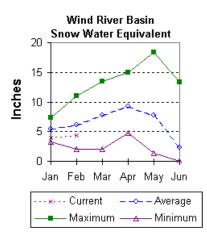
for the April through September runoff period. Yellowstone at Lake Outlet is expected to yield about 630,000 acre feet (78 percent of normal). Yellowstone at Corwin Springs will yield about 1,510,000 acre-feet (77 percent of normal). Yellowstone near Livingston will yield about 1,740,000 acre feet (76 percent of normal). Hebgen lake inflow is estimated to be 410,000 acre feet (82 percent of normal). See the following page for detailed runoff volumes.

	υ	PPER YELLO	WSTONE & MAI	DISON	RIVER B.	ASINS				
		Streamflo	w Forecasts	- Feb	bruary 1	, 2002				
		<<====	= Drier ====	=== H	Future C	onditions ==	===== We	tter ===	==>>	
		i i							i i	
Forecast Point	Forecast			== Cha	ance Of	Exceeding * =			==== İ	
	Period	90%	70%			Probable)	30%			30-Yr Avg.
		(1000AF)	(1000AF)			(% AVG.)	(1000	AF) (10		(1000AF)
				_		=========		=======		
YELLOWSTONE at Lake Outlet	APR-SEP	475	567	i i	630	78	69	3	785	805
				i i						
YELLOWSTONE RIVER at Corwin Springs	APR-SEP	1171	1373	i i	1510	77	164	7 1	849	1970
· · · · · · · · · · · · · · · · · · ·				i i		i				
YELLOWSTONE RIVER near Livingston	APR-SEP	1437	1618	i i	1740	76	186	2 2	043	2280
				i i						
HEBGEN Reservoir Inflow	APR-SEP	323	375	i i	410	82	44	5	497	500
								-		
UPPER YELLOWSTONE &	MADISON RI	VER BASINS			1	UPPER YELLOW	STONE & M	ADISON R	IVER BASI	NS
Reservoir Storage (1000	0 AF) - End	of Januar	v		i	Watershed Sr				
				=====			-	-		
	Usable	*** Usab	le Storage	***	1		N	umber	This Ye	ar as % of
Reservoir	Capacity	This	Last	i	Wate	rshed		of		
		Year	Year	Ava			Dat	a Sites	Last Yr	Average
				=====						
ENNIS LAKE	41.0	28.9	29.6	31.3	MADI	SON RIVER in	WY	9	201	92
					i					
HEBGEN LAKE	377.5	286.9	298.2 20	66.5	YELL	OWSTONE RIVER	in WY	12	165	83

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 79 percent of average (154 percent of last year). The Little Wind SWE is 58 percent of average water content (125 percent of last year), and the Popo Agie drainage SWE is about 67 percent of average (97 percent of last year). The Wind River basin, above Boysen Reservoir, SWE is about 71 percent of average (about 144 percent of last year). 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 25 to 154 percent of average. Precipitation for the basin was about 79 percent of average for the 8 reporting stations. Water year-to-date precipitation is 71 percent of normal. The current water-year-to-date average is about 140 percent of last year at this time. Year to date figures range from 37 to 86 percent of average.

Reservoirs

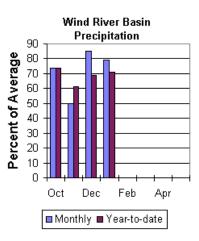
Current storage varies from 15 to 119 percent of average. Bull Lake is currently storing

about 28,300 acre feet (19 percent of capacity) -- normally the reservoir is at 57 percent of capacity at this time of the year. Boysen Reservoir is storing about 15 percent of capacity 87,000 acre feet) -- normally the reservoir is at 99 percent of capacity at this time of the year. Pilot Butte is storing 75 percent of capacity (23,800 acre feet) -- normally the reservoir is at 63 percent of capacity at 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 360,000 acre feet (67 percent of average). Wind River at Riverton will yield about 330,000 acre feet (52 percent of average). Boysen Reservoir inflow will yield about 455,000 acre feet (56 percent of normal). Bull Lake Creek near Lenore is expected to yield about 105,000 acre feet (57 percent of average). Little Popo Agie River near Lander is expected to yield about 26,000 acre feet (57 percent of average). South Fork of Little Wind near Fort Washakie will yield about 48,000 acre feet (57 percent of average). Little Wind River near Riverton will yield about 175,000 acre feet (56 percent of average).

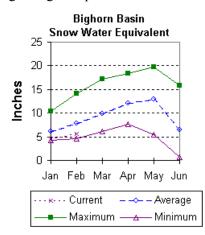


			WIND RIVER							
			w Forecasts		-					
						onditions =:				
			- 21101		uou10 0					
Forecast Point	Forecast			= Char	nce Of 1	Exceeding * =				
	Period	90%	70%	50	% (Most	Probable)	3	30%	10%	30-Yr Avg.
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(10	000AF)	(1000AF)	(1000AF)
				====			= = = = = = = =			
WIND RIVER abv Bull Lake Cr (2)	APR-SEP	232	308		360	67		412	488	535
WIND RIVER at Riverton (2)	APR-SEP	94	235		330	52		425	566	640
BOYSEN RESERVOIR Inflow (2)	APR-SEP	133	325		455	56		585	777	809
BULL LAKE CR near Lenore (2)	APR-SEP	51	83	ł	105	58		127	159	182
BOLL LAKE CK Hear Lehore (2)	AFR-SEF	51	63		105	50		127	159	102
LT POPO AGIE RIVER nr Lander	APR-SEP	11.1	20	i i	26	49		38	56	53
hi foro kom krynk hi hunder	MIK DDI		20		20	15		50	50	55
SF LT WIND nr Fort Washakie	APR-SEP	19.0	36		48	57		60	77	84
				i i						
LT WIND RIVER nr Riverton	APR-SEP	92	141	i	175	56		235	324	315
	IVER BASIN							IVER BAS		
Reservoir Storage (10			-			Watershed Sr	-	-		
	Usable		======================================					Number		Year as % of
Reservoir	Capacity	*** Usab. This	Last	**	Maha	rshed		of	#	Year as % of
Reservoir	Capacity	Year		vq	wate	rsned	-	or Data Sit		Yr Average
BULL LAKE	151.8	28.3		35.9		RIVER above		7	160	79
	10110	2010	0210				202100		200	
BOYSEN	596.0	87.0	445.5 59	2.0	LITT	LE WIND		2	137	58
				i i						
PILOT BUTTE	31.6	23.8	23.5 2	20.0	POPO	AGIE		7	125	67
				Í						
					WIND	above Boyser	ı Resv	14	145	71

Bighorn River Basin (4)

Snow

Snowpack in this basin is well below average for this time of year. The Nowood drainage SWE is 65 percent of average (125 percent of last year). Greybull River SWE is 63 percent of average (151 percent of last year). Shell Creek SWE is 77 percent of average (126 percent of last year). The basin SWE, as a whole, is currently 70 percent of average (128 percent of last year). For more information see Basin Summary of Snow Courses at beginning of report.



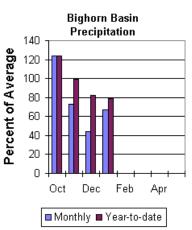
Precipitation

January precipitation was 67 percent of the monthly average (215 percent of last year). Sites ranged from 53 to 130 percent of average for the month. Year-to-date precipitation is 79 percent of normal; that is 126 percent of last year at this time. Year to date percentages, from the 10 reporting stations, range from 62 to 93.

Reservoir

Boysen Reservoir is currently storing 87,000-acre feet (15 percent of average). Bighorn

Lake is now at 82 percent of average (701,100-acre feet). Boysen is currently storing 81 percent of last year at this time and Big Horn Lake is storing 60 percent of last year's volume.



Streamflow

The 50 percent chance April through September runoff is anticipated to be below normal. The Boysen Reservoir inflow is forecast to yield

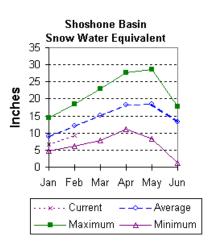
455,000 acre feet (56 percent of average); the Greybull River nr Meeteese should yield 90,000 acre feet (45 percent of average); Shell Creek near Shell should yield 37,000 acre feet (51 percent of average) and the Bighorn River at Kane should yield 575,000 acre feet (52 percent of average).

		SHOSHONE	& CLARKS FOR	K RIV	ER BASI	NS			
		Streamflo	w Forecasts	- Feb	ruary 1	, 2002			
		<<=====	= Drier ====	== F	uture Co	onditions ==	===== Wetter	====>>	
Forecast Point	Forecast			= Cha	nce Of 1	Exceeding * =			
	Period	90%	70%	50	% (Most	Probable)	30%	10%	30-Yr Avg.
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF)
				=====					
NF SHOSHONE RIVER at Wapiti	APR-SEP	255	309		345	66	381	435	520
SF SHOSHONE RIVER nr Valley	APR-SEP	95	128		150	57	172	205	265
				İ					
SF SHOSHONE RIVER abv Buffalo Bill	APR-SEP	37	83		115	51	147	193	225
BUFFALO BILL DAM Inflow (2)	APR-SEP	322	437		515	64	593	708	805
		522	107	i i	515	••			005
CLARKS FORK RIVER nr Belfry	APR-SEP	290	350		390	66	430	490	595
SHOSHONE & CLARKS	5 FORK RIVE	R BASINS				SHOSHONE	& CLARKS FORK	RIVER BAS	INS
Reservoir Storage (1000) AF) - End	of Januar	У	i		Watershed Sr	nowpack Analys	is - Februa	ary 1, 2002
				=====					
	Usable		le Storage *	**			Numbe		Year as % of
Reservoir	Capacity	This	Last		Wate	rshed	of		
		Year	Year A	vg			Data Si		
BUFFALO BILL	646.6	280.2	370.2 293	2.6	SHOSI	HONE RIVER	6	171	75
					CLAR	KS FORK in WY	τ 7	166	79

Shoshone and Clarks Fork River Basin (5)

Snow

Snow Water Equivalent (SWE) is 75 percent of the February average (171 percent of last year) in the Shoshone River basin. The Clarks Fork River basin SWE is 79 percent of average (166 percent of last year). For more information see the Basin Summary of Snow Course Data at the beginning of this report.



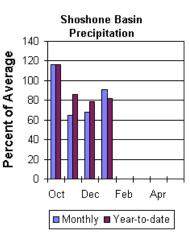
Precipitation

Precipitation for the month of January was 91 percent of normal. Monthly percentages range from 0 to 138 percent of average. The basin year-to-date precipitation is now 82 percent of average (141 percent of last year). Year-to-date percentages range from 63 to 88 percent of average.

Reservoir

Current storage in Buffalo Bill Reservoir is 96 percent of average (76 percent of last year's storage) – the reservoir is about 43 percent of capacity.

Currently, about 280,200 acre-feet are stored in the reservoir compared to 370,200 acre feet last year. Detailed reservoir data is shown on the following page and on the reservoir storage summary at the beginning of this report.



Streamflow

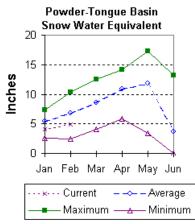
The fifty percent yield (April through September period) for North Fork Shoshone River at Wapiti is expected to be 345,000 acre-feet (66 percent of average). South Fork of the Shoshone River near Valley is estimated to yield of 150,000 acre-feet (57 percent of average), and South Fork above Buffalo Bill Reservoir is expected to be 115,000 acre-feet (51 percent of average). At the Buffalo Bill Reservoir, the fifty percent chance yield for the Shoshone River is expected to be about 515,000 acre-feet (64 percent of average). The fifty-percent chance yield for the Clarks Fork of the Yellowstone near Belfry, Montana is expected to be about 390,000 acre-feet (66 percent of average).

		STOCTONE	& CLARKS FOR	===== 2 DTV		======================================			
			w Forecasts						
		<<====	= Drier =====	== F1	uture C	onditions ==	===== Wetter	====>>	
Forecast Point	Forecast			= Cha	nce Of 1	Exceeding * :			
	Period	90%	70%			Probable)		10%	30-Yr Avg.
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF)
				=====					
NF SHOSHONE RIVER at Wapiti	APR-SEP	243	286		315	61	344	387	520
SF SHOSHONE RIVER nr Valley	APR-SEP	72	108	1	132	50	156	192	265
-				i					
SF SHOSHONE RIVER abv Buffalo Bill	APR-SEP	26	77		112	50	147	198	225
BUFFALO BILL DAM Inflow (2)	APR-SEP	280	408		495	62	582	710	805
CLARKS FORK RIVER nr Belfry	APR-SEP	291	359		405	68	451	519	595
				 =====					
SHOSHONE & CLARKS	5 FORK RIVE	R BASINS		1		SHOSHONE	& CLARKS FORK	RIVER BASI	NS
Reservoir Storage (1000) AF) - End	of Decemb	er	Í		Watershed Sn	nowpack Analys	is - Januar	y 1, 2002
Reservoir	Usable Capacity	This	le Storage ** Last	**	Wate	rshed	Numbe		Year as % of
Reservoir	Capacity	Year	Year A		wale.	Islied			Yr Average
				==== :					
BUFFALO BILL	646.6	234.4	379.0 299	9.0	SHOS	HONE RIVER	6	122	70
					CLAR	KS FORK in WY	ť 7	127	78

Powder and Tongue River Basins (6)

Snow

Snow water equivalent (SWE) in the Upper Tongue River drainage is 72 percent of normal (111 percent of last year). The Goose Creek drainage is 71 percent of average (104 percent of last year). Clear Creek drainage is 73 percent of normal SWE (126 percent of last year). Crazy Woman Creek is 76 percent of average (168 percent of last year). The Upper Powder River drainage is 72 percent of average (121 percent of last year). The Powder River drainage is 72 percent of average (121 percent of last year). The Powder River drainage is 72 percent of average (121 percent of last year). The Powder River basin snow water equivalent (SWE), in Wyoming, is about 73 percent of average (123 percent of last year). For more information see Basin Summary of Snow Courses at beginning of report.



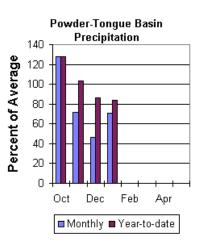
Precipitation

January precipitation was 71 percent of average for the 11 reporting stations. Monthly percentages range from 9 to 132 percent of average. Precipitation for the year ranges from 59 to 113 percent of average at the reporting stations. Year-to-date precipitation is about 84 percent of average in the basin; this is 123 percent of last year at this time.

Reservoir

Tongue River Reservoir is currently at 96 percent of average storage for this time of

year (21,800 acre feet) – the reservoir is about 28 percent of capacity (total capacity is 79,100 acre feet). Last year at this time the reservoir was storing about 34,000 acre feet – average storage is about 22,700 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

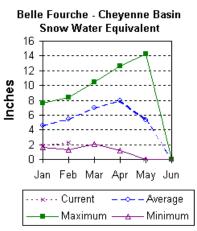
The following runoff values are for the 50 percent probability during the April through September forecast period. The estimated yield for Tongue River near Dayton is 59,000-acre feet (54 percent of normal). Middle Fork of the Powder River near Barnum is estimated to yield 8,700-acre feet (47 percent of average). The North Fork of the Powder near Hazelton should yield about 5,700 acre-feet (55 percent of normal). The estimated yield for Clear Creek near Buffalo is 21,000 acre-feet (54 percent of average). Rock Creek near Buffalo will yield about 12,500 acre-feet (52 percent of normal), and Piney Creek at Kearny should yield about 25,000 acre-feet (48 percent of average).

		POWDEF Streamflow	& TONGUE			2002			
		<<=====	Drier ===	I	Future Co	onditions ==	===== Wetter	: ====>>	
Forecast Point	Forecast	 ========		== Cha	ance Of E	xceeding * =			
	Period	90%	70%	50)% (Most	Probable)	30%	10%	30-Yr Avg.
		(1000AF)	(1000AF)		,	(% AVG.)		(1000AF)	(1000AF)
TONGUE RIVER nr Dayton (2)	APR-SEP	43	52		59	54	71	89	109
MIDDLE FORK POWDER nr Barnum	APR-SEP	5.1	7.2		8.7	47	11.8	16.3	18.7
NORTH FORK POWDER nr Hazelton	APR-SEP	4.2	5.1		5.7	55	6.8	8.3	10.4
CLEAR CREEK nr Buffalo	APR-SEP	16.7	19.3		21	54	24	29	39
ROCK CREEK nr Buffalo	APR-SEP	9.8	11.4		12.5	52	14.6	17.8	24
PINEY CREEK at Kearny	APR-SEP	12.3	19.9		25	48	36	51	52
POWDER & TON Reservoir Storage (10	GUE RIVER BA: 00 AF) - End		,				& TONGUE RIV owpack Analys		ary 1, 2002
Reservoir	Usable Capacity	*** Usabl This	le Storage Last	***	Water	shed	Numbe		Year as % of
		Year		Avg			Data Si		
TONGUE RIVER	79.1	21.8		22.7		TONGUE RIVE		111	72
					GOOSE	CREEK	2	108	71
					CLEAR	CREEK	4	126	73
					CRAZY	WOMAN CREEK	3	168	76
					UPPER	POWDER RIVE	R 4	121	72
					POWDE	R RIVER in W	т 8	123	73

Belle Fourche and Cheyenne River Basins (7)

Snow.

The Belle Fourche River Basin snow water equivalent (SWE) is much below average. SWE is currently 42 percent of average snow pack; 28 percent of last years amount at this time. See Basin summary of Snow Course Data at the beginning of this report for a detailed listing.



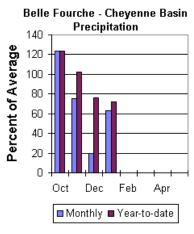
Precipitation.

Precipitation, for the month of January was 63 percent of average in the Black Hills. Monthly percentages range from 0 to 138 percent. Year-to-date precipitation is 72 percent of average and 69 percent of last year's amount.

Reservoir.

Usable reservoir storage is generally above average in the basin. Angostura is currently

storing 101 percent of average (99,500-acre feet), about 81 percent of capacity. Belle Fourche reservoir is storing 133 percent of average (134,800-acre feet), about 76 percent of capacity. Deerfield reservoir is storing 116 percent of average (14,900-acre feet), about 98 percent of capacity. Keyhole reservoir is storing 151 percent of average (154,400-acre feet), 80 percent of capacity. Pactola reservoir is storing 115 percent of average (52,800-acre feet), 96 percent of capacity. Shadehill



reservoir is storing 104 percent of average (51,000-acre feet), 63 percent of capacity.

Streamflow

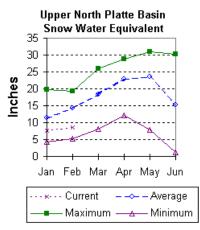
Water supply is estimated to be below normal this year. The following values reflect the 50 percent chance yields for the April through July runoff period. Deerfield Reservoir inflow is forecast at 2,630 acre feet (63 percent of average). Pactola is forecast at 9,700 acre feet (51 percent of average).

		BELLE FOU	RCHE & CHI ow Foreca:						
							===== Wetter		
Forecast Point	Forecast Period	90% (1000AF)	70% (1000A)	F) 5	0% (Most (1000AF)	Probable) (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
DEERFIELD RESERVOIR Inflow	MAR-JUL APR-JUL	1.24 0.89	2.37 1.92		3.14 2.63	64 63	4.34 3.75	6.12 5.40	4.90 4.20
PACTOLA RESERVOIR Inflow	MAR-JUL APR-JUL	1.7 0.9	7.4 6.1		11.3 9.7	54 51	18.5 16.7	29 27	21 18.9
						1			
Reservoir Storage	& CHEYENNE RIV (1000 AF) - End Usable	ER BASINS of Janua: ====================================	ry ====================================		 	BELLE FOUR Watershed Sn	CHE & CHEYENN Nowpack Analys: Number	E RIVER BA is - Febru ======= r This	SINS ary 1, 2002 Year as % of
BELLE FOURCHE Reservoir Storage Reservoir	& CHEYENNE RIV (1000 AF) – End Usable Capacity	ER BASINS of Janua: *** Usal This Year	ry ======== ble Storag Last Year	====== ge *** Avg	 Water	BELLE FOUR Watershed Sn	CHE & CHEYENN howpack Analys: Number of Data Sit	E RIVER BA is - Febru ======================== r This ===== tes Last	SINS ary 1, 2002 Year as % of Yr Average
BELLE FOURCHE Reservoir Storage Reservoir	& CHEYENNE RIV (1000 AF) – End Usable Capacity	ER BASINS of Janua: *** Usal This Year	ry ======== ble Storag Last Year	====== ge *** Avg	 	BELLE FOUR Watershed Sn	CHE & CHEYENN owpack Analys Number of	E RIVER BA is - Febru ======================== r This ===== tes Last	SINS ary 1, 2002 Year as % of Yr Average
BELLE FOURCHE Reservoir Storage Reservoir ANGOSTURA	& CHEYENNE RIV (1000 AF) - End Usable Capacity 	ER BASINS of Janua: *** Usal This Year	ry ble Storag Last Year	====== ge *** Avg =======	 	BELLE FOUR Watershed Sn	CHE & CHEYENNI lowpack Analys: 	E RIVER BA is - Febru T This ==== tes Last	SINS ary 1, 2002 Year as % of Yr Average
BELLE FOURCHE Reservoir Storage Reservoir ANGOSTURA BELLE FOURCHE	& CHEYENNE RIV. (1000 AF) - End Usable Capacity 122.1	ER BASINS of Janua: *** Usal This Year 99.5	ry ble Storag Last Year 87.9	ge *** Avg 98.1	 	BELLE FOUR Watershed Sn	CHE & CHEYENNI lowpack Analys: 	E RIVER BA is - Febru T This ==== tes Last	SINS ary 1, 2002 Year as % of Yr Average
BELLE FOURCHE Reservoir Storage Reservoir ANGOSTURA BELLE FOURCHE DEERFIELD	& CHEYENNE RIV. (1000 AF) - End Usable Capacity 122.1 178.4	ER BASINS of Janua: *** Usal This Year 99.5 134.8	ry ble Storag Last Year 87.9 144.0	ge *** Avg 98.1 101.4	 	BELLE FOUR Watershed Sn	CHE & CHEYENNI lowpack Analys: 	E RIVER BA is - Febru T This ==== tes Last	SINS ary 1, 2002 Year as % of Yr Average
BELLE FOURCHE Reservoir Storage	& CHEYENNE RIV. (1000 AF) - End Usable Capacity 122.1 178.4 15.2	ER BASINS of Janua: *** Usal This Year 99.5 134.8 14.9	ry Last Year 87.9 144.0 15.1	ge *** Avg 98.1 101.4 12.8	 	BELLE FOUR Watershed Sn	CHE & CHEYENNI lowpack Analys: 	E RIVER BA is - Febru T This ==== tes Last	SINS ary 1, 2002 Year as % of Yr Average

Upper North Platte River Basin (8)

Snow

The snow courses above Seminoe Reservoir have about 60 percent of average snow water equivalent (SWE) recorded for this time of the year (79 percent of last year). SWE in the drainage area above Northgate is about 59 percent of average and 76 percent of last year at this time. SWE in the Encampment River drainage is about 64 percent of normal and 88 percent of last year. Brush Creek SWE for the year is about 66 percent of normal and 79 percent of last year's SWE. Medicine Bow and Rock Creek drainage SWE is about 47 percent of average and 67 percent of last year at this time. For more information see Basin Summary of Snow Courses at the beginning of this report.



Precipitation

Eleven reporting stations indicate last month's precipitation was 52 percent of average and about 117 percent of last year's amount. Precipitation varied from 7 to 106 percent of average. Total water-yearto-date precipitation is about 67 percent of average for the basin, which is about 92 percent of last year's amount. Year to date percentage ranges from 57 to 93 percent of average for the 11 reporting stations.

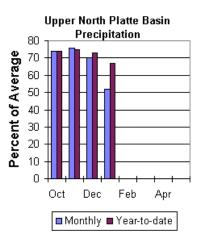
Reservoirs

Seminoe Reservoir is currently storing about 84 percent of normal for this time of the year. Currently, the reservoir is storing 67 percent of last year's amount. Seminoe Reservoir is estimated to be storing 480,000 acre-feet (47 percent of capacity). Last year, at this time, the reservoir had 680,900 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 120,000 acre-feet (44 percent of

average). Encampment River near Encampment is estimated to yield 110,000 acre-feet (67 percent of normal). Rock Creek near Arlington is estimated to yield 32,000 acre-feet (56 percent of average). Seminoe Reservoir inflow should be about (420,000 acre-feet (49 percent of normal). See the following table for more detailed information on projected runoff.

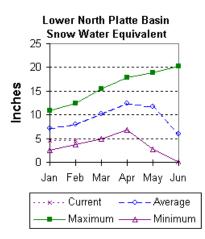


		UPPER 1	NORTH PLATT	RIVER BASIN	1			
		Streamflo	w Forecasts	- February 1	L, 2002			
		<<====	= Drier ====	== Future C	Conditions ===	===== Wette	er =====>>	
Forecast Point	Forecast			= Chance Of	Exceeding * ==			
	Period	90%	70%		Probable)	30%	10%	30-Yr Avq
		(1000AF)	(1000AF)		(% AVG.)	(1000AF)	,	(1000AF
orth Platte River nr Northgate	APR-SEP	71	100	120	44	 165	232	270
orth flutte kiver hr korthgute	AIR DEI	71	100	120		105	252	270
Encampment River nr Encampment	APR-SEP	68	93	110	67	127	152	165
Rock Creek nr Arlington	APR-SEP	19.7	27	32	56	38	47	57
Seminoe Reservoir inflow	APR-JUL	233	324	386	48	515	706	800
	APR-SEP	278	363	420	49	537	710	860
UPPER NORTH F						ORTH PLATTE		
Reservoir Storage (10			-		Watershed Sno			-
	Usable		le Storage '			Numb		Year as % o
Reservoir	Capacity	This	Last	Wate	ershed	of		
		Year		Avg		Data S		Yr Averag
SEMINOE	1016.7	480.0			LATTE above No			59 59
				ENC	MPMENT RIVER	4	88	64
				BRUS	SH CREEK	5	83	70
				MEDI	CINE BOW & ROO	CK CREEK 3	67	47

Lower North Platte River Basin (9)

Snow

SWE for the North Platte River basin in Wyoming averages 57 percent of normal (75 % of last year). The Sweetwater drainage SWE is currently 74 percent of average (133 percent of last year). Deer and LaPrele Creek SWE is 44 percent of average (43 percent of last year. SWE for the North Platte above the Laramie River drainage is 61 percent of average (80 % of last year). SWE for the Laramie River above the mouth is 46 percent of average (64 % of last year). SWE for the Laramie River above Laramie is 49 percent of average (66 % of last year). SWE for the Little Laramie River is 39 percent of average (58 percent of last year). For more information see Basin Summary of Snow Courses at beginning of report.



Precipitation

Of the 14 reporting stations, percentages for the month range from 0 to 112. January precipitation for the basin was 49 percent of average (134 percent of last year). The water year-to-date precipitation for the basin is currently 72 percent of average (99 percent of last year). Year to date percentages range from 58 to 130.

160

140

120

100

80

60

40 20

n

Oct

Percent of Average

Lower North Platte Basin

Precipitation

Dec

Feb

Monthly Year-to-date

Apr

Reservoir

The Lower North Platte River basin reservoir storage is well below to well above average. Reservoir storage is as follows:

Alcova 156,800 acre feet (101 percent of average); Glendo 283,000 acre feet (85 percent of average); Guernsey 13,200 acre feet (145 percent of average); Pathfinder 502,700 acre feet (74 percent of average); Seminoe 480,000 acre feet (84 percent of average). Wheatland No.2 19,000 acre feet (42 percent of average). Water allocated to project use is near average with North Platte Project users at 48 percent of average, Kendrick Project users at 101 percent of average, and Glendo Project users at 112 percent of average.

Streamflow

Yields from 17 to 58 percent are expected in the basin during the forecast period. The following yields are based on the fifty percent chance probability runoff for the April through September forecast period. The Sweetwater near Alcova is forecast to yield about 38,000 acre-feet (48 percent of average). Deer Creek at Glenrock is expected to yield about 17 percent of average (7,000 acre-feet). LaPrele Creek above the reservoir is estimated to yield 17 percent of average (4,000 acre-feet). North Platte River below Guernsey Reservoir is expected to yield about 39 percent of normal (398,000 acre-feet), and below Glendo Reservoir is anticipated to yield about 40 percent of average (392,000 acre-feet). Laramie River near Woods should yield about 58 percent of average (78,000 acre-feet). The Little Laramie near Filmore should produce about 27,000 acre-feet (42 percent of average).

_____ LOWER NORTH PLATTE, SWEETWATER & LARAMIE RIVER BASINS Streamflow Forecasts - February 1, 2002

<===== Drier ===== Future Conditions ====== Wetter =====>>									
		1					İ		
Forecast Point	Forecast								
	Period	90%	70%		Probable)	30%	10%	30-Yr Avg.	
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF)	
Sweetwater River nr Alcova	APR-JUL	13.6	26	35	47	53	81	74	
Sweetwater River nr Alcova	APR-JUL APR-SEP		26	35		53	81		
	APR-SEP	15.3	29	38	48	57	85	80	
Deer Creek at Glenrock	APR-SEP	2.7	4.8	7.0	17	12.3	23	41	
Deel Cleek at Gieniock	AFR-SEF	2.7	1.0	,	17	12.5	25		
La Prele Creek ab La Prele Reservoir	APR-SEP	1.0	1.8	4.0	17	8.5	19.7	24	
Alcova to Orin Gain	APR-JUL	4.0	9.0	12.0	8	50	107	152	
	APR-SEP	5.0	10.0	13.0	8	52	110	161	
North Platte River blw Glendo Reserv	APR-JUL	281	345	389	41	496	652	960	
	APR-SEP	281	347	392	40	504	670	990	
North Platte River blw Guernsey Resv		254	330	382	39	515	710	970	
	APR-SEP	265	344	398	39	536	738	1010	
Laramie River nr Woods	APR-SEP	40	62	78	58	105	144	135	
Laramie Kiver ni WOOds	AFR-SEP	40	02	/8	58	105	144	135	
Little Laramie River nr Filmore	APR-SEP	18.3	24	27	42	35	48	64	
		2010				55	10	• •	

LOWER NORTH PLATTE, SWEETWATER & LARAMIE RIVER BASINS Reservoir Storage (1000 AF) - End of January LOWER NORTH PLATTE, SWEETWATER & LARAMIE RIVER BASINS Watershed Snowpack Analysis - February 1, 2002

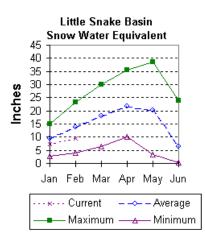
KODOLIOIL DUOLUGO (10								
Reservoir	Usable Capacity	*** Usa This Year	ble Stora Last Year	ge ***	Watershed	Number of Data Sites		r as % of ====== Average
	I	Iear	Iear	Avg	l l	Data Sites		Average
ALCOVA	184.3	156.8	156.6	155.0	SWEETWATER	3	133	74
GLENDO	506.4	283.0	283.5	334.9	DEER & LaPRELE CREEKS	3	43	44
GUERNSEY	45.6	13.2	12.8	9.1	N PLATTE abv Laramie R	. 25	80	62
PATHFINDER	1016.5	502.7	728.1	678.3	LARAMIE RIVER abv Lara	mie 8	66	49
SEMINOE	1016.7	480.0	680.9	573.2	LITTLE LARAMIE RIVER	4	58	39
WHEATLAND #2	98.9	19.0	34.0	45.3	LARAMIE RIVER above mo	uth 11	64	46
NORTH PLATTE PROJ	1062.1	286.6	584.9	601.0	NORTH PLATTE	31	76	58
KENDRICK PROJECT	1201.7	828.6	971.2	819.1				
GLENDO PROJECT USERS	183.2	134.5	136.3	119.8				

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

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 68 percent of average (88 percent of last year at this time). For more information see Basin Summary of Snow Courses at beginning of this report.



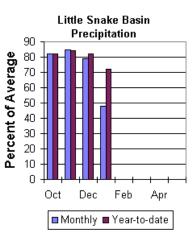
Precipitation

Precipitation across the basin was below average this past month. January precipitation was 48 percent of average (103 percent of last year) for the 5 reporting stations. January precipitation ranged from 36 to 69 percent of average. The Little Snake River basin water-year-todate precipitation is currently 72 percent of average (96 percent of last year). Year-to-date percentages range from 66 to 79 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 90,000 acre-feet (57 percent of normal). Little Snake River near Dixon is estimated to yield 180,000 acre-feet (55 percent of normal).

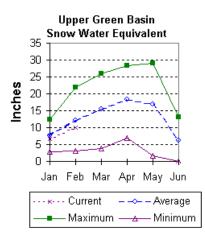


LITTLE SNAKE RIVER BASIN Streamflow Forecasts - February 1, 2002									
		<<=====	Drier ====	== F	uture Co	onditions ==	===== Wetter	====>>	
Forecast Point	Forecast			= Cha	nce Of I	Exceeding * =			
	Period	90% (1000AF)	70% (1000AF)			Probable) (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Little Snake River nr Slater	APR-JUL	======== 56	75	====	90	57	106	132	159
		50		1		5.	200	101	200
LITTLE SNAKE R nr Dixon	APR-JUL	113	153		180	55	229	301	330
				 =====					
	E RIVER BAS						LE SNAKE RIVE		
Reservoir Storage (100		-					owpack Analys		• •
	Usable		.e Storage *				Numbe		Year as % of
Reservoir	Capacity	This	Last	i	Water	rshed			
		Year	Year A	vg			Data Si	tes Last	Yr Average
					LITTI	LE SNAKE RIVE	R 8	88	68

Upper Green River Basin (11)

Snow

The Upper Green River Basin snow water equivalent (SWE), above Fontenelle Reservoir, is 82 percent of average (132 percent of last year). The Green River basin SWE above Warren Bridge is 84 percent of normal (138 percent of last year). SWE on the west side of the Upper Green River basin is about 80 percent of normal, 137 percent of this time last year. Newfork River SWE is now 84 percent of normal (109 percent of last year). Big Sandy-Eden Valley SWE is about 89 percent of average (131 percent of last year). For more information see the Basin Summary of Snow Courses at the beginning of this report.



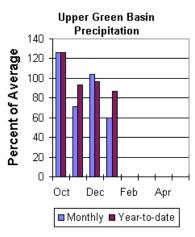
Precipitation

The 11 reporting precipitation sites in the basin were 60 percent of last month's average . Precipitation varied from 46 to 79 percent of average. Water year-to-date precipitation is about 87 percent of average (134 percent of last year). Year to date percentage of average ranges from 79 to 95 percent for the reporting stations.

Reservoir

Big Sandy Reservoir is currently storing 3,100 acre feet (17 percent of average) --14 percent of last year and 8

percent of capacity. Eden Reservoir is currently storing 480 acre feet (15 percent of average) -- 4 percent of capacity. Fontenelle Reservoir is storing 141,200 acre-feet (77 percent of average and 41 percent of the total capacity). Flaming Gorge Reservoir is currently storing 2,854,100 acre feet (96 percent of average) -- 95 percent of last year and 72 percent of capacity. Detailed reservoir data is shown on the following page and on the reservoir storage summary at the beginning of this report.



Streamflow

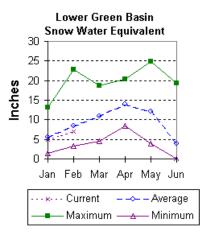
The following forecast is based on the fifty-percent chance April through July runoff in the Upper Green River basin. Runoff is forecast to be below average. Green River at Warren Bridge is expected to yield about 215,000 acre-feet (81 percent of normal). Pine Creek above Fremont Lake is expected to yield 82,000 acre-feet (79 percent of normal). New Fork River near Big Piney is expected to yield about 290,000 acre-feet (73 percent of normal). Fontenelle Reservoir Inflow is estimated to be 590,000 acre-feet (69 percent of average), and Big Sandy near Farson is expected to be about 46,000 acre-feet (79 percent of normal).

UPPER GREEN RIVER BASIN										
OFFER GREEN RIVER BASIN Streamflow Forecasts - February 1, 2002										
StreamIOW ForeCasts - February 1, 2002										
<pre></pre>										
		<<====	== Drier ==		Future C	onditions ==	===== Wette	r ====>>		
		1								
Forecast Point	Forecast					Exceeding * =				
	Period	90%	70%			Probable)	30%	10%	30-Yr Avg.	
		(1000AF) (1000AF)		,	(% AVG.)	,	(1000AF)	(1000AF)	
				=== ===:						
Green River at Warren Bridge	APR-JUL	154	190		215	81	240	276	265	
Pine Creek abv Fremont Lake	APR-JUL	64	75	i	82	79	89	100	104	
				i i						
New Fork River nr Big Piney	APR-JUL	166	240	1	290	73	340	414	395	
Fontenelle Reservoir Inflow	APR-JUL	418	517		590	69	668	792	860	
Foncenerie Keservoir inflow	AFR-00D	410	517		590	05	000	192	000	
Big Sandy River nr Farson	APR-JUL	28	39		46	79	53	64	58	
Big Sandy River nr Farson	APR-JUL	28	39		40	79	53	64	58	
	EEN RIVER BAS									
							ER GREEN RIV			
Reservoir Storage (1)			-		1	Watershed Sn				
	Usable		ble Storage	e ***			Numb		Year as % of	
Reservoir	Capacity	This	Last		Wate	rshed	of			
		Year	Year	Avg			Data S	ites Last	Yr Average	
					= = = = = = = = =					
BIG SANDY	38.3	3.1	5.5	18.6	GREE	N above Warre	n Bridge 4	140	84	
					i					
EDEN	11.8	0.5		3.2	UPPE	R GREEN (West	Side) 7	137	80	
						• • • •				
FLAMING GORGE	3749.0	2854.1	2992.0	2966.0	NEW	FORK RIVER	3	109	84	
	5745.0	2031.1	2772.0		1.20		5	109		
FONTENELLE	344.8	141.2	120.4	182.2	BTG	SANDY/EDEN VA	LLEY 1	131	89	
FUNIEREDEE	344.0	141.2	120.4	102.2	BIG	SANDI/EDEN VA	1 181	131	09	
					00000	N above Fonte	nelle 14	100	00	
					GREE	N abové Fonte	neile 14	132	82	
					1					

Lower Green River Basin (12)

Snow

The Blacks Fork and Henrys Fork drainage's are below average. SWE in the Hams Fork, as of February 1, is 84 percent of average (131% of last year). Blacks Fork SWE is currently 71 percent of average (90 percent of last year). The basin, as a whole, is 81 percent of average (125 percent of last year). For more information see Basin Summary of Snow Courses at beginning of this report.



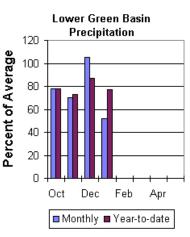
Precipitation

Precipitation was below average for the month (52 percent) for the 3 reporting stations during January. Precipitation ranged from 47 to 58 percent of average for the month. The basin year-to-date precipitation is currently 77 percent of average (131 percent of last year). Year to date percentages range from 74 to 79.

Reservoir

Fontenelle Reservoir is currently storing 141,200 acre feet; this is 77 percent of

average (117 percent of last year). Flaming Gorge is currently storing 2,854,100 acre feet,this is 96 percent of average (95 percent of last year). Viva Naughton is currently storing 28,300 acre feet; this is 93 percent of average.



Streamflow

Expected yields vary from 61 to 69 percent of average across the basin.

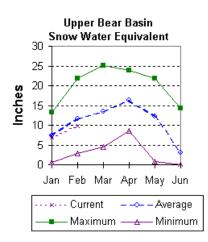
The following forecast values are based on a 50 percent chance probability for the April through July forecast period. Green River near Green River is forecast to yield about 600,000-acre feet (69 percent of average). Blacks Fork near Robertson is forecast to yield 62,000-acre feet (65 percent of average). East Fork of Smiths Fork near Robertson is estimated to yield 19,000 acre-feet (61 percent of average). The estimated yield for Hams Fork near Frontier is 45,000-acre feet (69 percent of average). Viva Naughton Reservoir inflow will be about 58,000-acre feet (65 percent of average). Flaming Gorge Reservoir inflow will be about 770,000-acre feet (65 percent of average).

LOWER GREEN RIVER BASIN Streamflow Forecasts - February 1, 2002											
		<<====	== Drier =		Future Co	onditions ====	==== Wetter	: ====>>			
Forecast Point	Forecast					Exceeding * ===					
	Period	90% (1000AF)	70% (1000AB			Probable) (% AVG.)	30%	10% (1000AF)	30-Yr Avg. (1000AF)		
					,			,	(1000AF)		
Green River nr Green River, WY	APR-JUL	338	494		600	69	706	862	875		
dieen kiver in dieen kiver, wi	MIN COL	550	101		000	05	700	002	075		
Blacks Fork nr Robertson	APR-JUL	43	54		62	65	74	92	95		
				i							
EF of Smiths Fork nr Robertson	APR-JUL	14.2	16.9	i	19.0	61	21	25	31		
				i i		Í					
Hams Fk blw Pole Ck nr Frontier	APR-JUL	25	36		45	69	55	70	65		
Hams Fk Inflow to Viva Naughton Res	APR-JUL	21	43		58	65	73	95	89		
Flaming Gorge Reservoir Inflow	APR-JUL	403	622		770	65	918	1137	1190		
LOWER GREEN					1		GREEN RIVE				
Reservoir Storage (1000			v		Watershed Snowpack Analysis - February 1, 2002						
			-		1						
	Usable	*** Usab	le Storag	re ***	1		Numbe	er Thi	s Year as % of		
Reservoir	Capacity	This	Last	-	Water	shed	of	===:			
	ĺ	Year	Year	Avg	ĺ		Data Si	ites Las	t Yr Average		
FONTENELLE	344.8	141.2	120.4	182.2	HAMS	FORK RIVER	4	131	84		
					1						
FLAMING GORGE	3749.0	2854.1	2992.0	2966.0	BLACE	KS FORK	2	90	71		
VIVA NAUGHTON RES	42.4	28.3		30.3	UP101	S FORK	2	70	69		
VIVA NAUGHTON RES	42.4	28.3		50.3	HENR	IS FURK	2	70	69		
					מספט	N above Flamino	Gorge 21	125	81		
					GREEI	above rialling	, corge 21	125	01		

Upper Bear River Basin (13)

Snow

Snow water equivalent (SWE), at snow courses in the Bear River above the Idaho State line, is 83 percent of average (130 percent of last year). SWE for the Bear River in Utah is estimated to be 81 percent of average; that is about 116 percent of last year at this time. SWE in the Wyoming portion of the Bear River drainage (Smiths and Thomas Forks) is estimated at 83 percent of average (135 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.



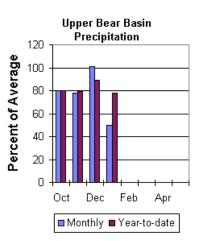
Precipitation

Precipitation for last month was 50 percent of average for the 2 reporting stations. The year-to-date precipitation, for the basin, is 78 percent of average; this is 119 percent of last year's amount.

Reservoir

Woodruff Narrows reservoir is currently storing 4,000 acre feet (7 percent of capacity). Normally, the reservoir is storing 44 percent of capacity at this time of the year.

Current storage is 16 percent of average, and 14 percent of last year's amount.



Streamflow

The following is based on the 50 percent chance stream flow yields are for the April through September period. Smiths Fork near Border is estimated to yield 91,000 acre-feet (77 percent of normal), and Thomas Fork drainage near the Idaho-Wyoming state line is much below average. Bear River above the Utah-Wyoming State Line is expected to yield about 100,000 acre feet (80 percent of average), The Bear River near Woodruff is expected to yield about 118,000 acre-feet (about 77 percent of normal).

		UPI	PER BEAR RI	VER BA	SIN					
					-					
	<<===== Drier ===== Future Conditions ====== Wetter ====>>									
Forecast Point	Forecast Period	90% (1000AF)	70% (1000AF)	50	% (Most 1000AF)	Exceeding * = Probable) (% AVG.)	(1	30% 000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
SMITHS FK nr Border, WY	APR-SEP	62 e====	78	= ====	91	77		107	134	118
Bear R nr UT-WY State Line	APR-SEP	72	88		100	80		114	139	125
BEAR R nr Woodruff, UT	APR-SEP	63	92		118	77		152	220	154
	R RIVER BASI							R RIVER I		
Reservoir Storage (10)		-				Watershed Sn	-	-		-
Reservoir	Usable Capacity	*** Usabl This	le Storage [:] Last	***		rshed		Number of	This ====:	Year as % of
		Year		Avg						Yr Average
WOODRUFF NARROWS	57.3	4.0		25.2		R BEAR RIVER			116	81
					SMIT	HS & THOMAS F	ORKS	4	135	83
					BEAR	RIVER abv ID	line	7	130	83
					NORTI	HWEST		76	155	79
					NORTI	HEST		21	86	67
					SOUTI	HEAST		34	78	61
					SOUTI	HWEST		30	112	76

lssued by

Pearlie S. Reed Chief Natural Resources Conservation Service U.S. Department of Agriculture Released by

Lincoln "Ed" Burton State Conservationist Natural Resources Conservation Service Casper, Wyoming

