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United States  
Department of  
Agriculture

Soil  
Conservation  
Service

Casper,  
Wyoming



# Wyoming Water Supply Outlook

March 1, 1986

2562745



WYOMING

# Foreword

## How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall. This snowfall accumulates high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data and narratives describing current conditions.

Streamflow forecasts are cooperatively generated by Soil Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff becomes known. For this reason, forecasts are issued that reflect three future precipitation conditions — Below Normal, Average, and Above Normal. These forecasts are termed reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values eight out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

## For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. Because of the limited space, snow survey measurements are not published in monthly reports. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687
Arizona	201 East Indianola, Suite 200, Phoenix, AZ 85012
Colorado (New Mexico)	2490 West 26th Ave., Denver, CO 80211
Idaho	304 North 8th Street, Room 345, Boise, ID 83702
Montana	10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715
Nevada	50 South Virginia Street, Third Floor, Reno, NV 89505
Oregon	1220 Southwest 3rd Ave., 16th Floor, Portland, OR 97204
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
Washington	360 U.S. Court House, Spokane, WA 99201
Wyoming	Federal Building, 100 East "B" Street, Casper, WY 82602

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 547, Portland, OR 97209.

Published by other agencies:

Water Supply Outlook Reports prepared by other agencies include: California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 98502; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A 3V1; Alberta, Saskatchewan, and N.W.T. — The Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta, T3C 1A6.



# Wyoming

## Water Supply Outlook and

## Federal-State-Private Cooperative Snow Surveys

### **Issued by**

Wilson Scaling  
Chief  
Soil Conservation Service  
Washington, D.C.

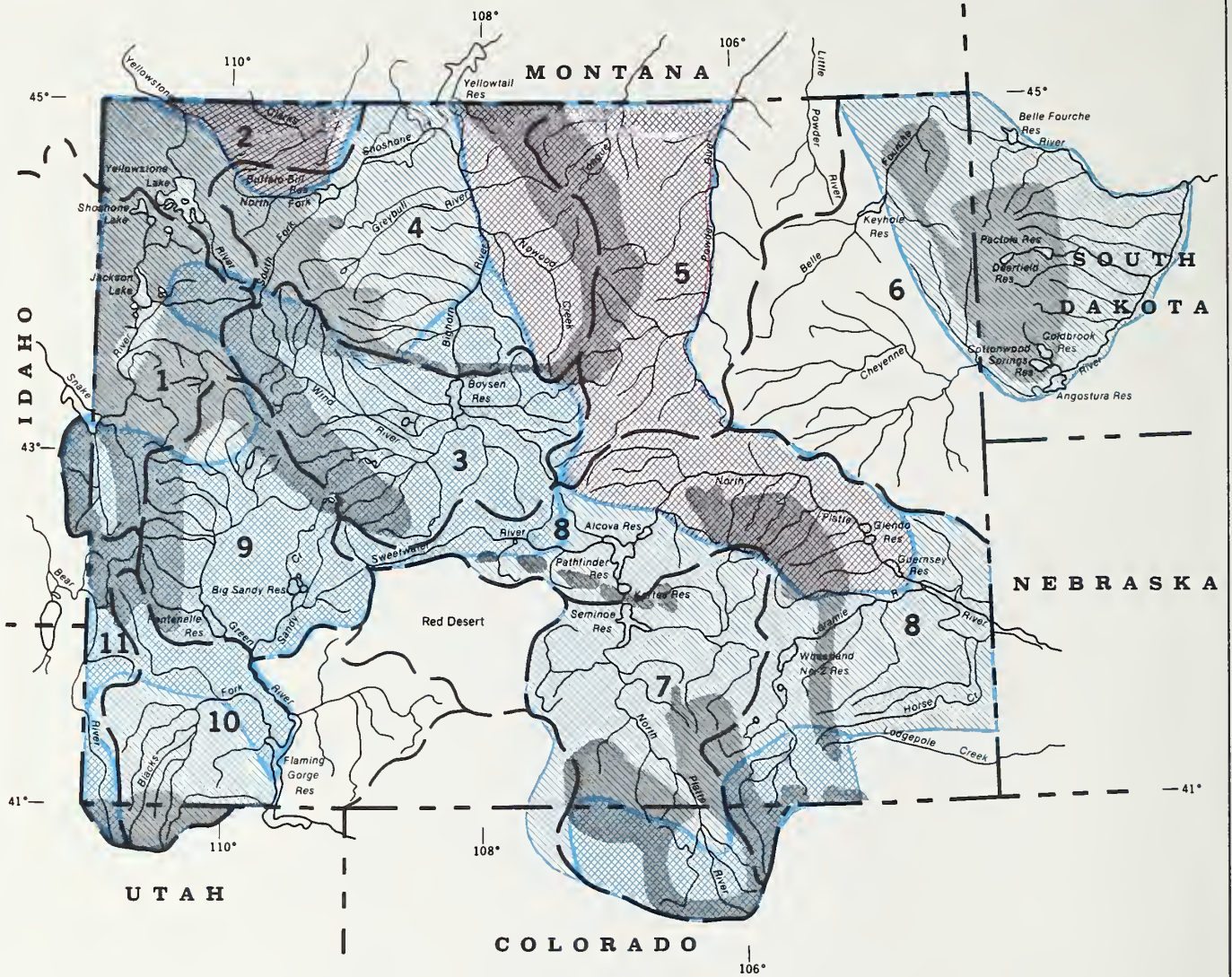
### **Released by**

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Casper, Wyoming 82601

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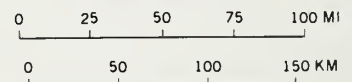
**LEGEND**  
**SPRING AND SUMMER PERIOD**  
**(PERCENT OF AVERAGE)**

- MUCH ABOVE AVERAGE 130+
- ABOVE AVERAGE 110-130
- NEAR AVERAGE 90-110
- BELOW AVERAGE 70-90
- MUCH BELOW AVERAGE 70 & LESS
- NOT FORECAST
- MOUNTAIN AREAS

**RIVER BASINS**

- 1. SNAKE
- 2. UPPER YELLOWSTONE AND MADISON
- 3. WIND
- 4. BIG HORN
- 5. POWDER AND TONGUE
- 6. BELLE FOURCHE AND CHEYENNE
- 7. UPPER NORTH PLATTE AND LITTLE SNAKE
- 8. LOWER NORTH PLATTE, SWEETWATER, AND LARAMIE
- 9. UPPER GREEN
- 10. LOWER GREEN
- 11. UPPER BEAR

**STREAMFLOW PROSPECTS**  
**WYOMING**



SOURCE: Data compiled by SCS Field Personnel.

USDA-SCS FORT WORTH, TEXAS 1985

JULY 1985 4-R-39346

FORMERLY 7-L-22029G

## GENERAL OUTLOOK

### SUMMARY:

FEBRUARY WAS A MONTH OF CONTRASTS. FROM RECORD BREAKING TEMPERATURES, BOTH HIGHS AND LOWS, TO RECORD OR NEAR RECORD SNOWPACK DEPTHS. WINTER STORMS DUMPED SNOW IN THE WESTERN PART OF THE STATE IN RECORD AMOUNTS. SOME SNOW COURSES SHOW ACCUMULATED SNOWPACK AS MUCH AS 100% ABOVE NORMAL. HEAVY WINDS THAT ACCOMPANIED THE STORMS ALONG WITH WARMING TEMPERATURES TRIGGERED AVALANCES IN MANY AREAS OF WESTERN WYOMING. STREAMFLOW PROSPECTS FOR THE STATE REMAIN BRIGHT FOR SPRING AND SUMMER. RUNOFF WILL BE FROM NEAR AVERAGE TO MUCH ABOVE AVERAGE IF PRESENT TRENDS CONTINUE.

### SNOWPACK:

A series of winter storms pushed the snowpack to record or near record levels in several areas of the state. Most snow accumulation was experienced in the Wind River, Wyoming, Teton, Gros Ventre and Absaroka Ranges in the north and west part of the state, and the Snowy and Sierra Madre Ranges in the south. The snowpack in these areas range from 30% to 100% above normal. Snowpack accumulation for the remainder of the state is near or slightly above average. The exception to the rule is the Casper Mountain and Muddy Mountain areas on the northwest flank of the Laramie Mountain Range in central Wyoming. These areas are about 5% below normal.

### PRECIPITATION:

February total precipitation at almost all stations were near normal or much above normal. Excessive snowfall occurred in extreme western Wyoming. Amounts up to 7 1/2-inches of water equivalent were common in the Star Valley area northward into the Tetons. Elsewhere, averages were normal to slightly above normal. Seasonal comparisons were mostly 25% to 100% above normal. Extreme northwest areas, including the Snake drainage were almost 200% above normal. East of the Big Horns...the Little Missouri and Tongue drainages were up to 130% above normal.



## RESERVOIRS:

Major reservoir storage in the state is generally less than at this time last year. When compared to the long term average, present storage is about 8% above normal.

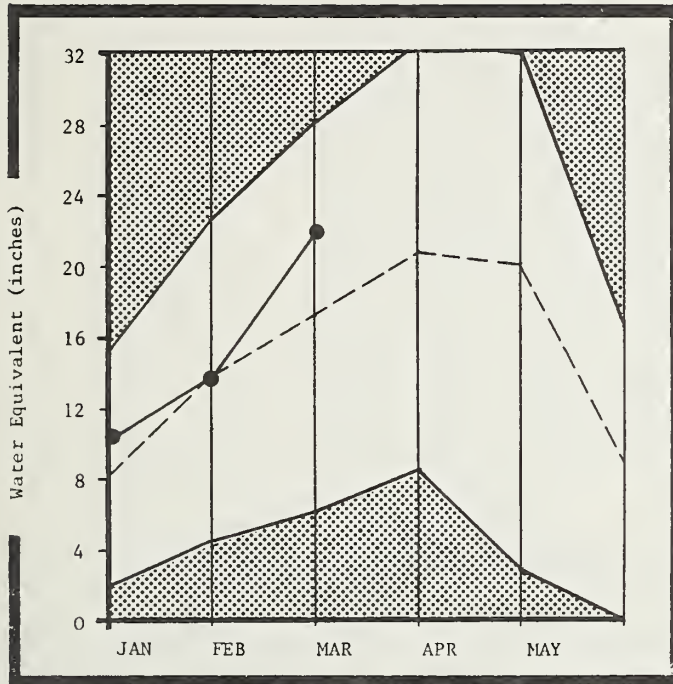
## STREAMFLOW:

Streamflow prospects for the spring and summer brightened during the month of February. Most encouraging was the improvement of flow prospects for the Lower Clarks Fork and Shoshone drainages. Water users in these drainages can expect normal to slightly above normal streamflows. The Upper North Platte, Sweetwater and Upper Laramie drainages in the south and south central part of the state can expect runoff to average from 30 to 50 percent above normal. The Upper Bear River, Upper Green River and Upper Wind River drainages can expect runoff to be 35 to 100 percent above normal. Streamflow predictions for the remainder of the state show normal or slightly above normal flows can be expected. These forecasts are dependent upon average snowfall accumulations for the remaining portion of the snow season. The forecasts in this bulletin are a result of coordinated activity between the Soil Conservation Service and the National Weather Service in an effort to provide the best possible service to the water user.

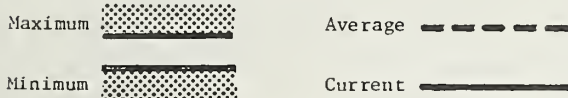


# SNAKE RIVER BASIN

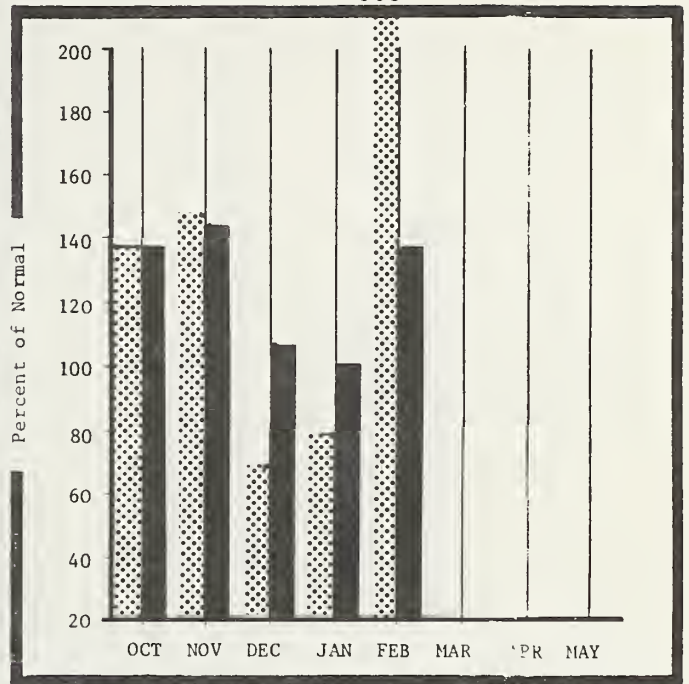
## MOUNTAIN SNOWPACK\*



\*Based on selected stations



## PRECIPITATION\*



\*Based on selected stations



## WATER SUPPLY OUTLOOK:

Streamflow forecasts for this basin show expected flows to be 20 to 36 percent above average. Snowpack buildup for the month took a jump with all stations well above average. Some were as much as 50% above average. Precipitation set records at several stations. The monthly precipitation was about 200% above normal, with the year to date precipitation being 37% above average. Reservoir storage with the exception of Jackson Lake is above average.

For more information contact your local Soil Conservation Service office.

**SNAKE RIVER BASIN**

STREAMFLOW FORECASTS

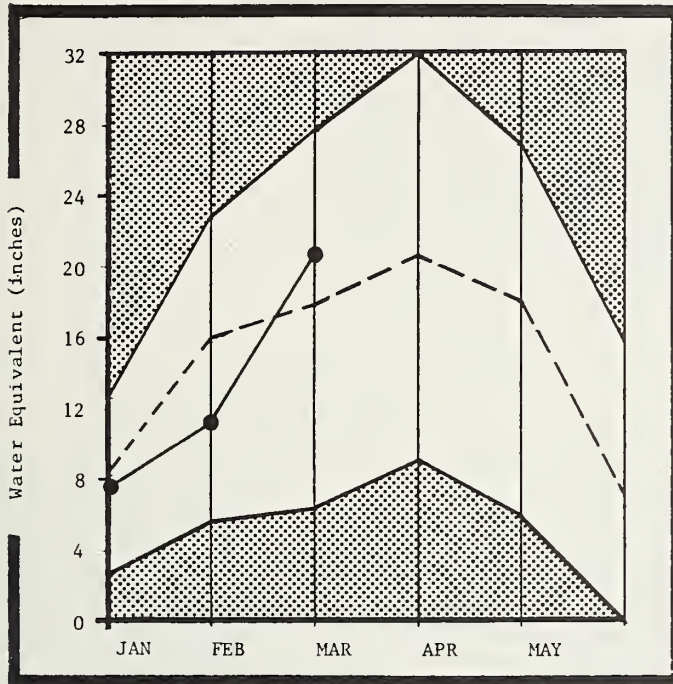
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
SNAKE RIVER near Moran *	APR-SEP	880.0	1070.0	121	138	106				
SNAKE RIVER above Palisades *	APR-SEP	2730.0	3281.0	120	136	104				
SNAKE RIVER at Heise, ID *	APR-SEP	4066.0	5080.0	124	149	101				
PACIFIC CREEK at Moran	APR-SEP	174.0	237.0	136	159	113				
GREYS RIVER above Palisades	APR-SEP	393.0	540.0	137	160	115				
SALT RIVER near Etna	APR-SEP	394.0	570.0	144	184	110				
FALISADES RESERVOIR Inflow *	APR-SEP	3793.0	4740.0	124	144	106				
SWIFT CREEK near Afton	MAY-SEP	46.0	52.6	114	137	91				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.	WATERSHED	NO. COURSES AVE.0	THIS YEAR AS % OF LAST YR.	% OF AVERAGE
GRASSY LAKE	15.1	12.9	13.1	10.4	SNAKE above JACKSON LAKE	8	135	129
JACKSON LAKE	624.4	148.8	274.8	553.0	PACIFIC CREEK	2	175	151
FALISADES	1200.0	911.4	888.5	851.0	GROS VENTRE RIVER	4	176	137
					HOBACK RIVER	7	166	139
					GREYS RIVER	4	166	128
					SALT RIVER	5	152	135
					SNAKE above FALISADES	29	152	133

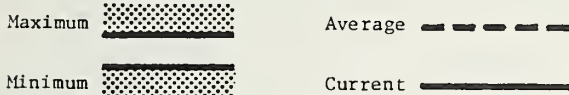
\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.

# UPPER YELLOWSTONE AND MADISON RIVER BASINS

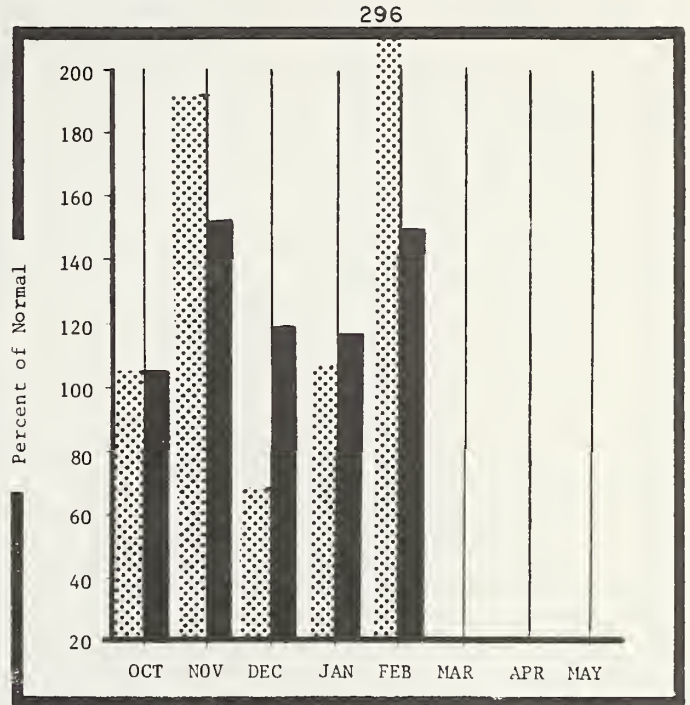
## MOUNTAIN SNOWPACK\*



\*Based on selected stations



## PRECIPITATION\*



\*Based on selected stations



## WATER SUPPLY OUTLOOK:

Snowpack buildup continues to be above average in the basin. Runoff estimates show that water users can expect near normal to above normal streamflows this spring and summer. February was a wet month for the basin as monthly precipitation amounts were 196% above normal. Year to date precipitation is about 50% above normal. Reservoir storage remains above average with about 73% of the usable capacity being used.

For more information contact your local Soil Conservation Service office.



**UPPER YELLOWSTONE and MADISON RIVER BASINS**

**STREAMFLOW FORECASTS**

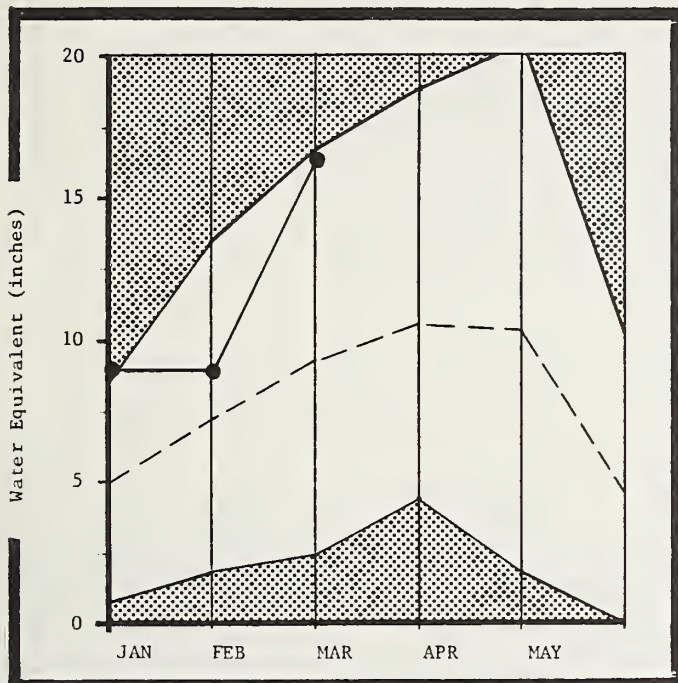
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
YELLOWSTONE RIVER at Lake Outlet	APR-SEP	826.0	900.0	108	125	93				
YELLOWSTONE RIVER at Corwin Spgs.	APR-SEP	2027.0	1960.0	96	113	81				
YELLOWSTONE RIVER near Livingston	APR-SEP	2379.0	2250.0	94	111	79				
MADISON RIVER near Grayling, MT *	APR-SEP	496.0	545.0	109	128	92				

RESERVOIR STORAGE (1000AF)				WATERSHED SNOWPACK ANALYSIS				
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVE.0	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVE.			LAST YR.	AVERAGE
ENNIS LAKE	41.0	30.1	32.5	35.7	UPPER MADISON RIVER	13	130	121
HEBGEN LAKE	378.0	277.1	305.2	224.6	CLARKS FORK	20	143	111
					UPPER YELLOWSTONE RIVER	17	145	119

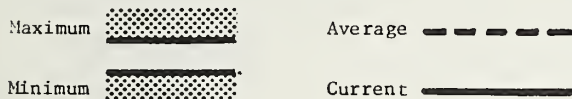
\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.

# WIND RIVER BASIN

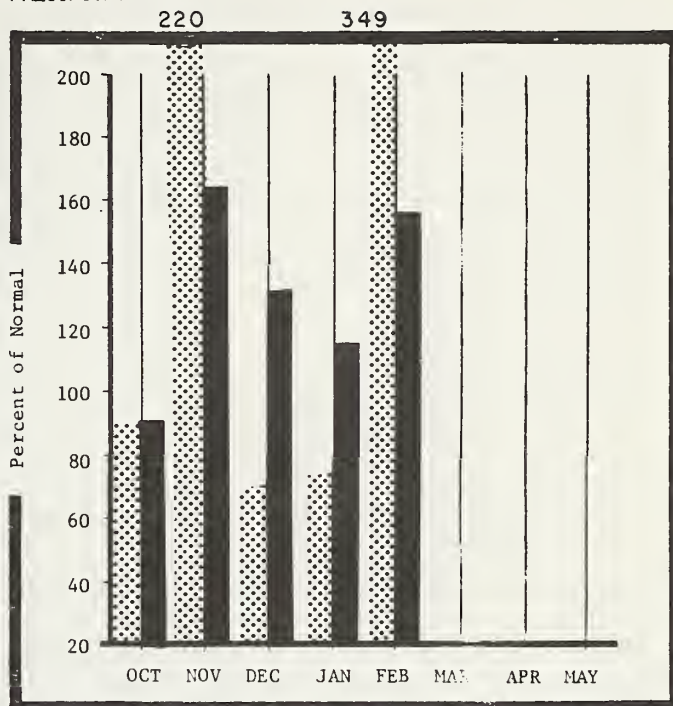
## MOUNTAIN SNOWPACK\*



\*Based on selected stations



## PRECIPITATION\*



\*Based on selected stations



## WATER SUPPLY OUTLOOK:

Streamflow prospects remain bright for the spring and summer. Flows are predicted to be from 39 to 50 percent above average. Precipitation for the month was the big story in this basin. February precipitation was 249% above average. This precipitation led to a snowpack that is between 50% and 90% above normal. Several snow courses had record depths. All reservoirs in the basin show above average storage quantities.

For more information contact your local Soil Conservation Service office.

**WIND RIVER BASIN**

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLDW (CFS)	PEAK DATE	LDW FLOW (CFS)	LDW DATE
WIND RIVER near Dubois	APR-SEP	106.0	152.0	143	167	120				
WIND RIVER at Riverton *	APR-SEP	678.0	1015.0	149	176	129				
WIND RIVER below Boysen *	APR-SEP	1163.0	1750.0	150	174	124				
BULL LAKE CREEK near Lenore *	APR-SEP	188.0	268.0	142	164	121				
LITTLE POPO AGIE RIVER near Lander	APR-SEP	53.0	74.0	139	168	111				

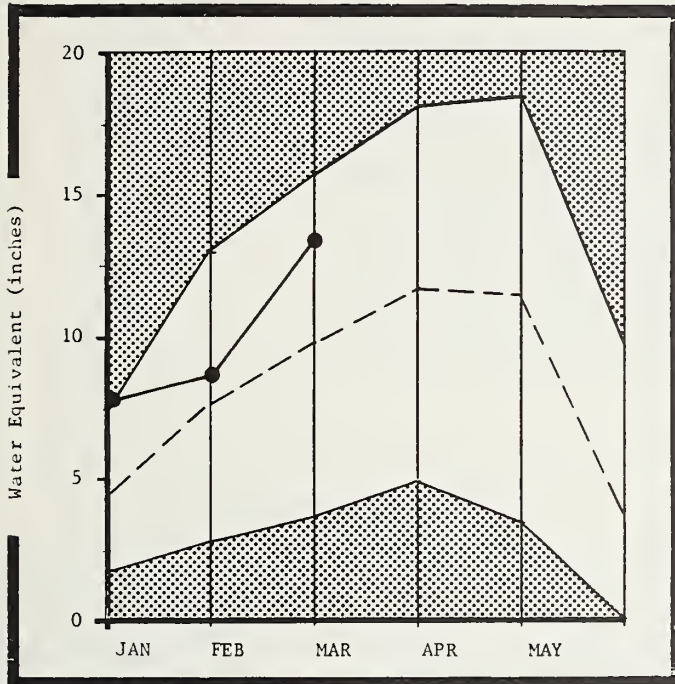
RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	% OF AVERAGE
BULL LAKE	151.1	43.7	89.9	88.0	UPPER WIND RIVER	11	213	150
BOYSEN	549.9	602.1	321.8	295.0	WIND above RIVERTON	19	224	161
PILDT BUTTE	31.6	25.0	23.5	15.4	POPO AGIE	4	222	191
					WIND above BOYSEN	23	224	166

\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.

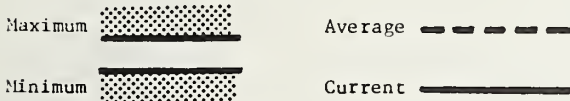


# BIGHORN RIVER BASIN

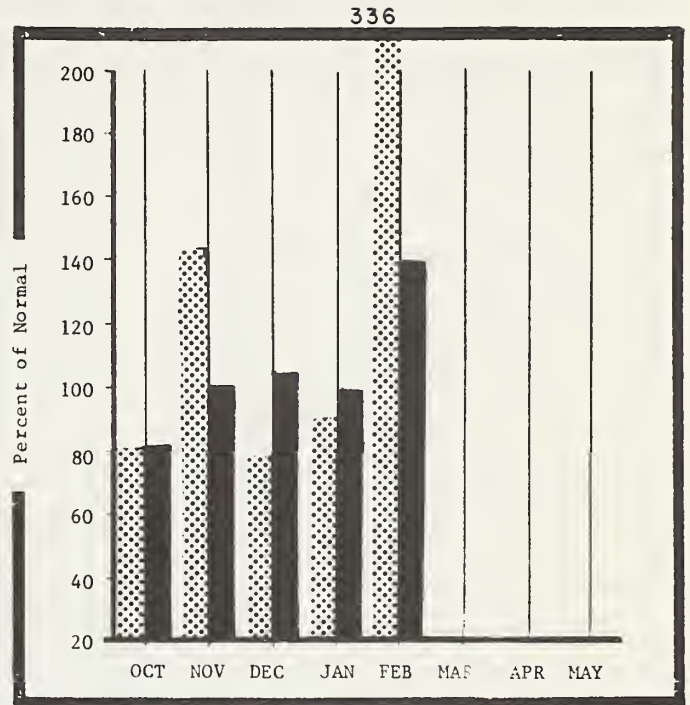
MOUNTAIN SNOWPACK\*



\*Based on selected stations



PRECIPITATION\*



\*Based on selected stations



## WATER SUPPLY OUTLOOK:

Precipitation during the month has greatly brightened the runoff prospects. Streamflows are expected to be near normal or slightly above normal, with the Greybull and Shoshone drainages being nearly 20% above average. Precipitation for the month in the basin was about 230% above normal. Snowpack accumulation remains above normal with the Greybull drainage being 84% above average. Reservoir storage is above normal for this time of year.

For more information contact your local Soil Conservation Service office.

## BIGHORN RIVER BASIN

### STREAMFLOW FORECASTS

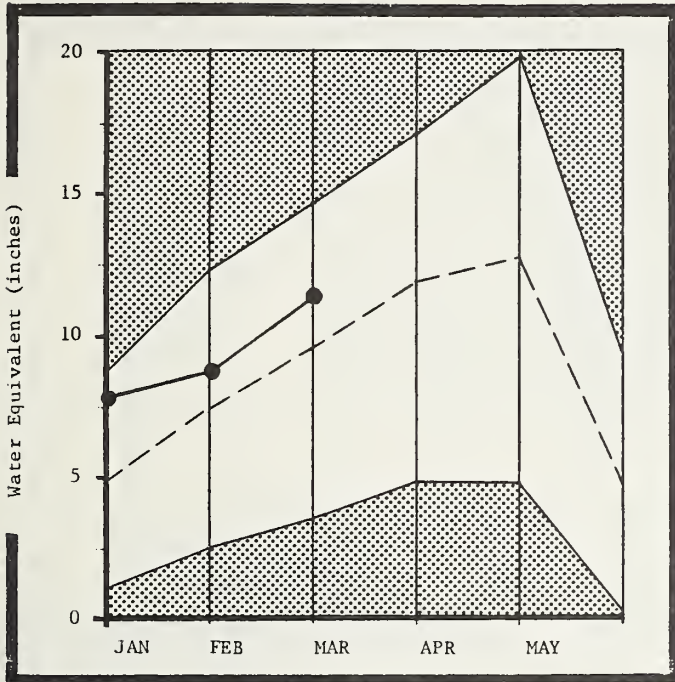
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
WIND RIVER below Boysen *	APR-SEP	1163.0	1750.0	150	174	126				
SHELL CREEK near Shell	APR-SEP	78.0	78.0	100	129	79				
GREYBULL RIVER at Meeteetse	APR-SEP	215.0	240.0	120	145	97				
SHOSHONE RIVER blw Buffalo Bill *	APR-SEP	845.0	1055.0	124	145	105				
CLARKS FORK near Belfry	APR-SEP	628.0	705.0	112	142	82				
SOUTH FORK SHOSHONE near Valley	APR-SEP	278.0	315.0	113	137	89				
NOWOOD RIVER near Tensleep	MAR-SEP	71.0	75.0	105	130	82				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE THIS YEAR	LAST YEAR	** AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	% OF AVERAGE
BOYSEN	549.9	602.1	321.8	295.0	SHOSHONE RIVER	10	188	156
BUFFALO BILL	373.1	275.2	238.5	169.0	NOWOOD RIVER	5	164	105
BIGHORN LAKE	1356.0	733.5	854.9	590.4	GREYBULL RIVER	4	200	184
					SHELL CREEK	7	149	113
					BIGHORN (Boysen-Bighorn)	35	173	131

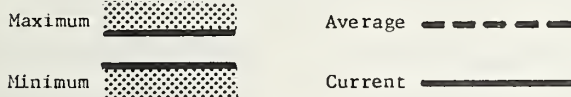
\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.

# POWDER AND TONGUE RIVER BASINS

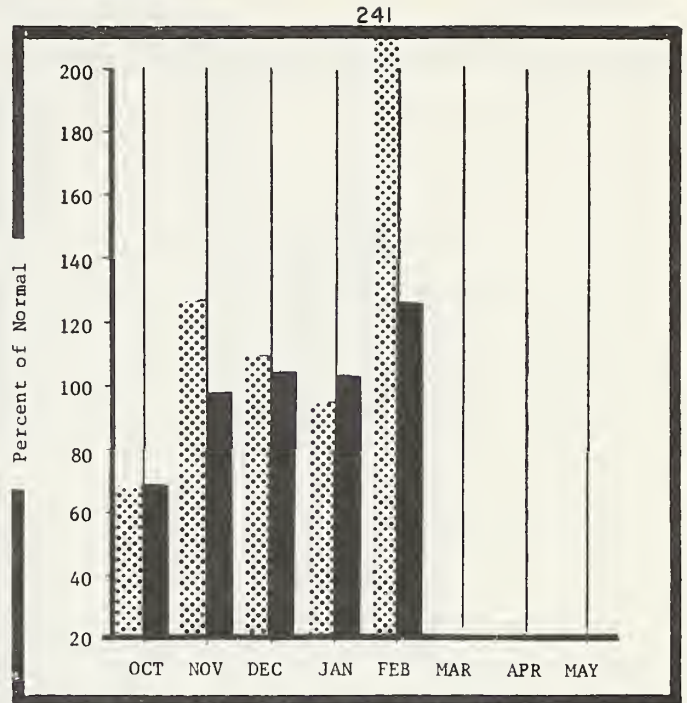
## MOUNTAIN SNOWPACK\*



\*Based on selected stations



## PRECIPITATION\*



\*Based on selected stations



## WATER SUPPLY OUTLOOK:

Streamflow forecasts are near to slightly above average. Snowpack buildup is near normal. Precipitation for the month was 141% above average. For the year precipitation is about 24% above average. If current conditions continue, water users can expect sufficient water supplies for the spring and summer.

For more information contact your local Soil Conservation Service office.



**POWDER and TONGUE RIVER BASINS**

STREAMFLOW FORECASTS

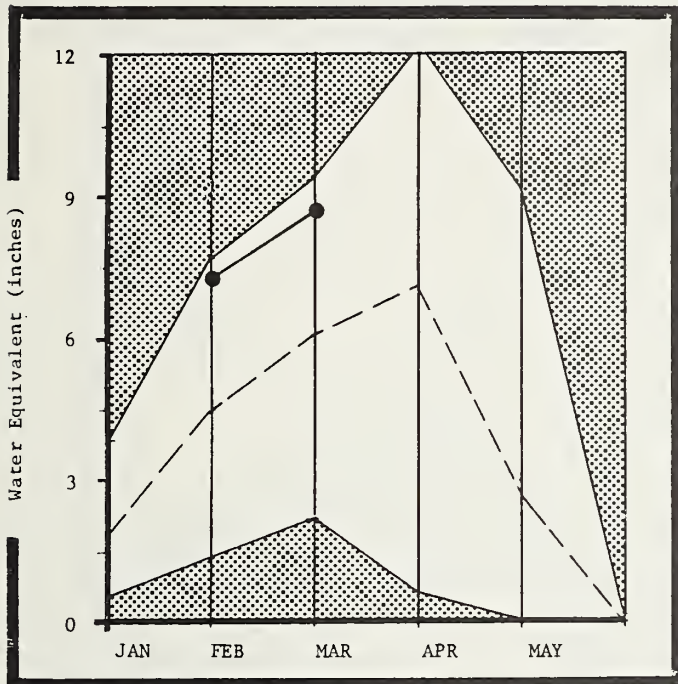
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
TONGUE RIVER near Dayton *	APR-SEP	123.0	130.0	105	133	78				
MIDDLE FORK POWDER near Barnum	APR-SEP	21.6	23.0	106	139	74				
NORTH FORK POWDER near Hazelton	APR-SEP	10.6	11.5	108	142	75				
CLEAR CREEK near Buffalo	APR-SEP	40.0	44.3	110	145	78				
ROCK CREEK near Buffalo	APR-SEP	25.4	28.0	110	146	75				
FINEY CREEK at Kearny	APR-SEP	54.8	60.0	109	144	75				
LITTLE BIGHORN at Hardin, MT	APR-SEP	182.0	218.0	119	167	64				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE THIS YEAR	LAST YEAR	** AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	% OF AVERAGE
TONGUE RIVER	68.0	24.6	10.2	34.4	UPPER TONGUE RIVER	13	136	113
					GOOSE CREEK	6	139	111
					CLEAR CREEK	3	202	130
					CRAZY WOMAN CREEK	3	203	109
					POWDER RIVER	29	148	112

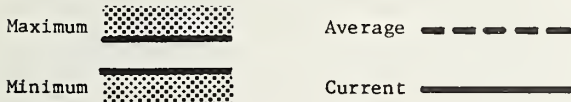
\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.

# BELLE FOURCHE AND CHEYENNE RIVER BASINS

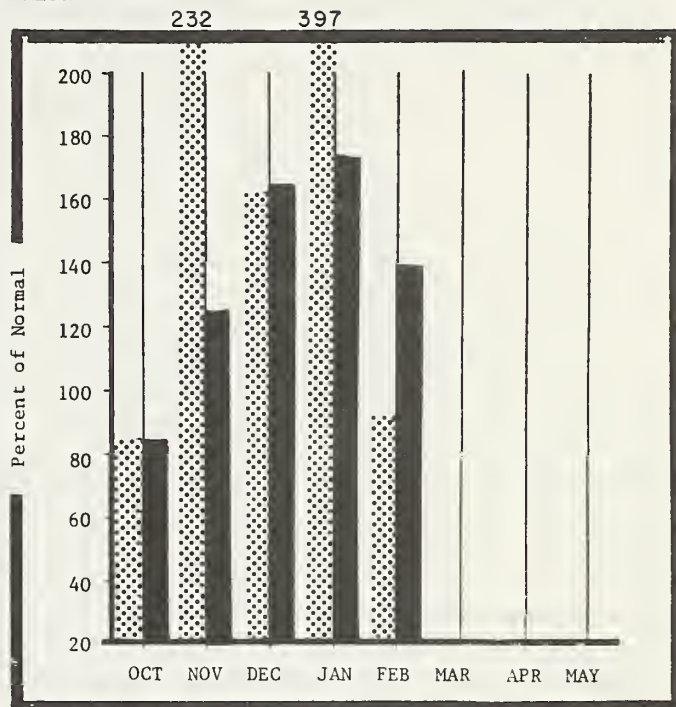
MOUNTAIN SNOWPACK\*



\*Based on selected stations



PRECIPITATION\*



\*Based on selected stations



## WATER SUPPLY OUTLOOK:

Precipitation during the month was only about 91% of normal which led to a reduction in the snowpack percentage. The snowpack remains above average by nearly 31%. However, this is a reduction from the previous months percentage. Reservoir storage on the Belle Fourche drainage is below normal. The remaining reservoir storage in the basin is near to slightly above average.

For more information contact your local Soil Conservation Service office.

BELLE FOURCHE and CHEYENNE RIVER BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
-No forecasts issued in this area-										

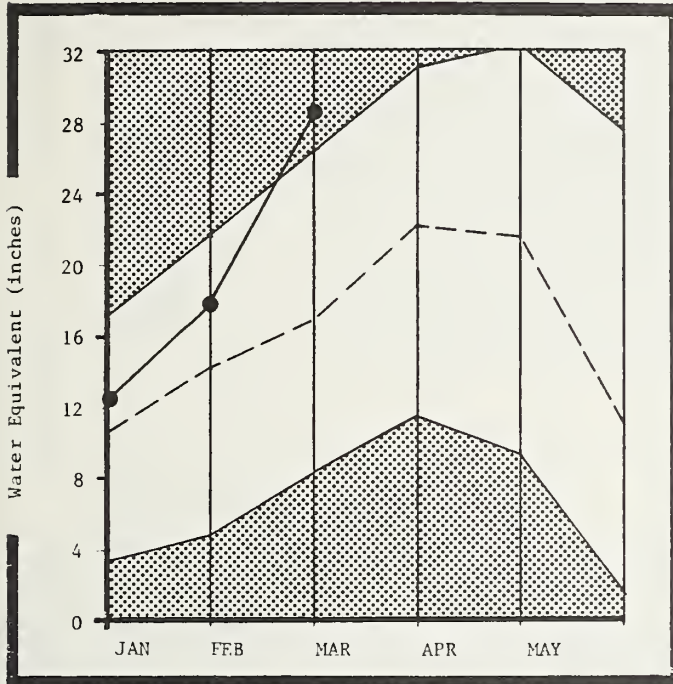
RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVE.0	THIS YEAR AS % OF LAST YR. AVERAGE	
		THIS YEAR	LAST YEAR	AVE.			LAST YR.	AVERAGE
ANGOSTURA	86.2	80.0	53.7	58.6	BELLE FOURCHE	6	179	131
BELLE FOURCHE	185.2	75.7	135.1	114.0				
DEERFIELD	15.1	15.2	15.6	13.2				
KEYHOLE	190.4	56.8	79.1	111.0				
FACTOLA	55.0	44.9	33.8	46.2				
SHADEHILL	81.5	120.3	53.5	48.0				

\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.

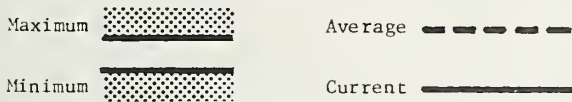


# UPPER NORTH PLATTE AND LITTLE SNAKE RIVER BASINS

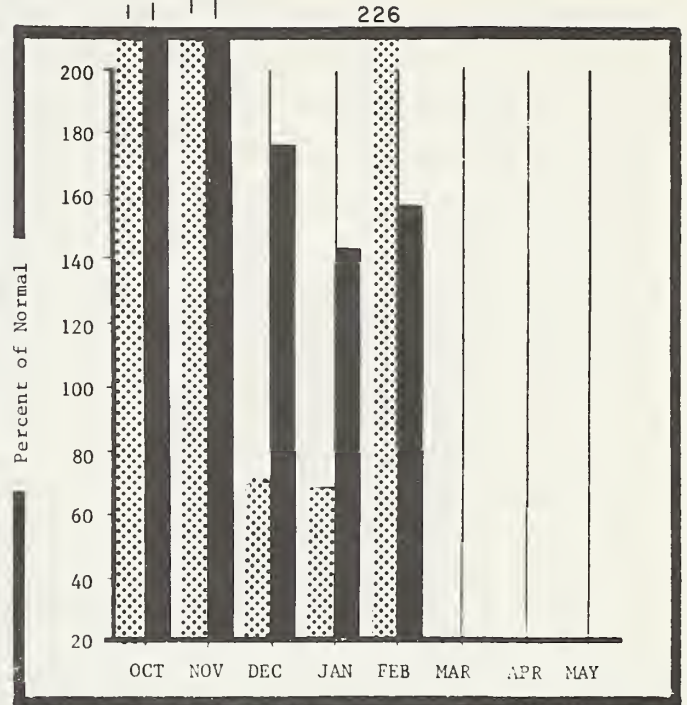
MOUNTAIN SNOWPACK\*



\*Based on selected stations



PRECIPITATION\*



\*Based on selected stations



## WATER SUPPLY OUTLOOK:

Streamflow prospects in the Little Snake River Basin improved during the month. Forecasts predict flows to be nearly 30% above normal. Streamflows expected for the Upper North Platte Basin remain above average. Precipitation during the month was much above average at 126%. Year to date precipitation is about 60% above normal. Snowpack accumulation also is above average with the Little Snake River Basin being between 13% and 34% above average and the Upper North Platte Basin being 40% above average.

For more information contact your local Soil Conservation Service office.

**UPPER NORTH PLATTE and LITTLE SNAKE RIVER BASINS**

STREAMFLOW FORECASTS

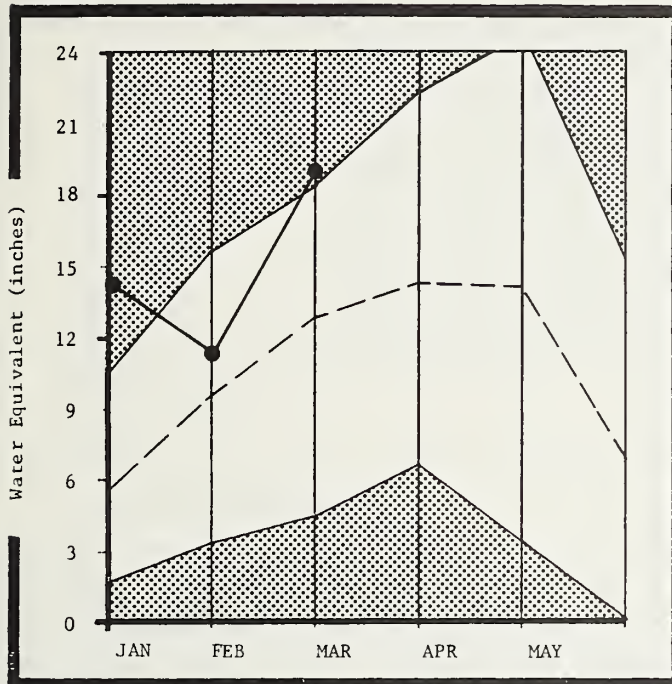
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
NORTH PLATTE RIVER near Northgate	APR-SEP	262.0	300.0	125	150	102				
NORTH PLATTE RIVER near Sinclair	APR-SEP	710.0	852.0	120	148	96				
ENCAMPMENT RIVER near Encampment	APR-SEP	156.0	195.0	125	149	101				
ROCK CREEK near Arlington	APR-SEP	57.6	75.0	130	155	106				
LITTLE SNAKE RIVER near Dixon *	APR-SEP	320.0	412.0	128	159	99				
LITTLE SNAKE near Slater, CO *	APR-SEP	158.0	200.0	126	156	97				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVE.			LAST YR.	AVERAGE
SEMINOE	1017.3	579.8	836.0	347.0	UPPER NORTH PLATTE	7	153	134
					ENCAMPMENT RIVER	3	145	137
					BRUSH CREEK	3	155	136
					MEDICINE BOW & ROCK CREEK	3	184	143
					N. PLATTE above SEMINOE	14	182	149
					UPPER LITTLE SNAKE RIVER	1	131	120
					SAVERY CREEK	1	139	134

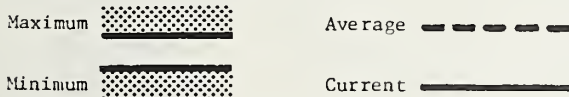
\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.

# LOWER NORTH PLATTE, SWEETWATER, AND LARAMIE RIVER BASINS

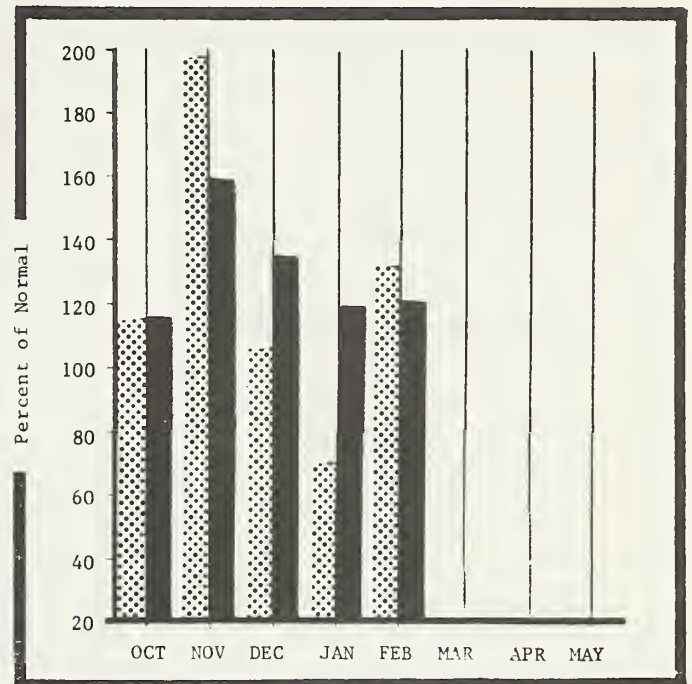
MOUNTAIN SNOWPACK\*



\*Based on selected stations



PRECIPITATION\*



\*Based on selected stations



## WATER SUPPLY OUTLOOK:

Streamflow outlook remains rosey for the basin except for the Deer and LaPrele Creeks. These drainages are predicted to be about 4% below normal. Flows for the remainder of the basin should be above average. Snowpack continues to be above average for most of the basin. Precipitation for the month was about 32% above normal and is about 21% above average for the year. Reservoir storage is above average in Seminoe and Pathfinder, and below average in the remaining main stem dams.

For more information contact your local Soil Conservation Service office.



LOWER NORTH PLATTE, SWEETWATER, and LARAMIE RIVER BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
NORTH PLATTE RIVER near Sinclair	APR-SEP	710.0	852.0	120	148	90				
SWEETWATER RIVER near Alcova	APR-SEP	73.7	99.5	135	213	184				
DEER CREEK at Glenrock	APR-SEP	51.8	59.0	96	158	35				
LaPRELE CREEK above Reservoir	APR-SEP	33.7	32.5	96	157	36				
LARAMIE RIVER near Woods *	APR-SEP	132.0	175.0	132	141	105				
LITTLE LARAMIE RIVER near Filmore	APR-SEP	65.1	84.0	129	157	181				

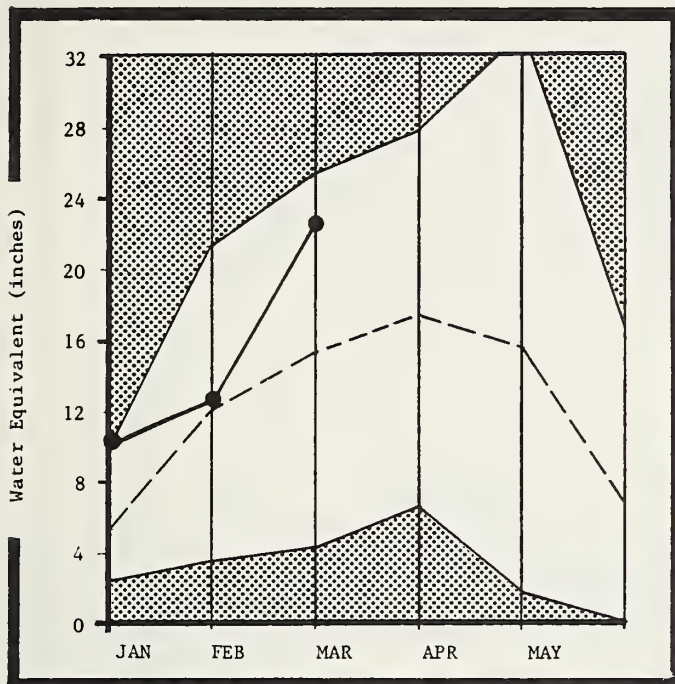
RESERVOIR STORAGE		(1000AF)			WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVE.			LAST YR.	AVERAGE
ALCOVA	184.3	147.9	156.4	162.7	SWEETWATER	4	280	200
GLENDO	789.4	175.9	368.2	383.0	DEER & LaPRELE CREEKS	2	110	95
GUERNSEY	45.6	12.3	32.4	12.7	N. PLATTE above LARAMIE	12	162	133
PATHFINDER	1016.5	780.8	886.4	547.0	LITTLE LARAMIE RIVER	4	184	127
SEMINOE	1017.3	579.8	836.0	347.0	UPPER LARAMIE RIVER	2	159	152
WHEATLAND #2	98.9	69.0	73.1	48.7	LARAMIE RIVER above MOUTH	10	174	130
NORTH PLATTE PROJ	1062.1	682.1	1054.0	653.8	NORTH PLATTE in WYOMING	39	177	144
KENDRICK PROJECT	1201.7	1104.3	1004.3	755.7				
GLENDO PROJECT USERS		NO REPORT						

\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.



# UPPER GREEN RIVER BASIN

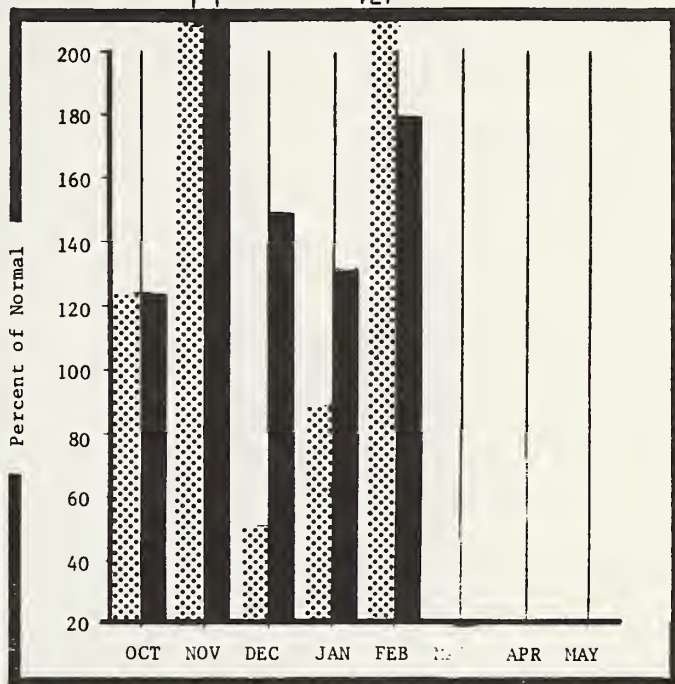
MOUNTAIN SNOWPACK\*



\*Based on selected stations

Maximum Average   
 Minimum Current

PRECIPITATION\*



\*Based on selected stations

Monthly precipitation Year to date precipitation

## WATER SUPPLY OUTLOOK:

Above average streamflows can be expected by the water users this spring and summer. Precipitation for the month was over 300% of normal and is nearly 81% above average for the year. The heavy precipitation led to a continued snowpack buildup that is above average. Snowpack is between 43% and 67% above normal for the basin. With the exception of Fontenelle Reservoir, all basin reservoir storage is above normal.

For more information contact your local Soil Conservation Service office.

UPPER GREEN RIVER BASIN

STREAMFLOW FORECASTS

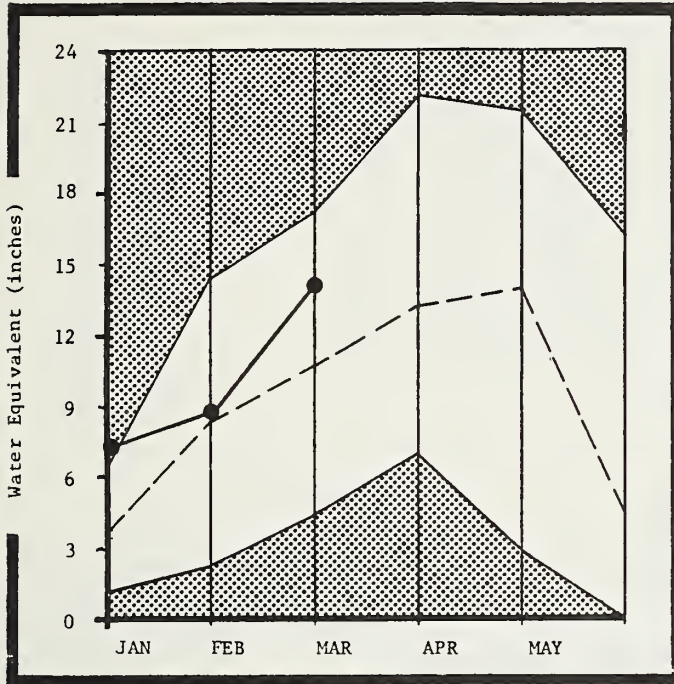
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
GREEN RIVER near Warren Bridge	APR-SEP	326.0	432.0	132	149	116				
FONTENELLE RESERVOIR Inflow	APR-JUL	869.0	1250.0	143	165	122				
LaBARGE CREEK at LaBarge Meadows	APR-SEP	8.9	12.1	135	157	112				
BIG SANDY RIVER near Big Sandy	APR-SEP	61.0	92.0	150	175	126	1200			

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE THIS YEAR	LAST YEAR	** AVE.	WATERSHED	NO. COURSES AVE.0	THIS YEAR AS % OF LAST YR.	% OF AVERAGE
BIG SANDY	38.3	21.0	24.2	17.2	GREEN above WARREN BRIDGE	4	237	162
EOEN	11.8	7.0	---	2.5	UPPER GREEN (West Side)	7	184	143
FLAMING GORGE	3749.0	2958.0	3036.5	---	NEWFORK LAKE	3	259	163
FONTENELLE	344.8	35.9	168.3	167.1	BIG SANDY/EOEN VALLEY	2	216	167
					GREEN above FONTENELLE	12	205	150

\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.

# LOWER GREEN RIVER BASIN

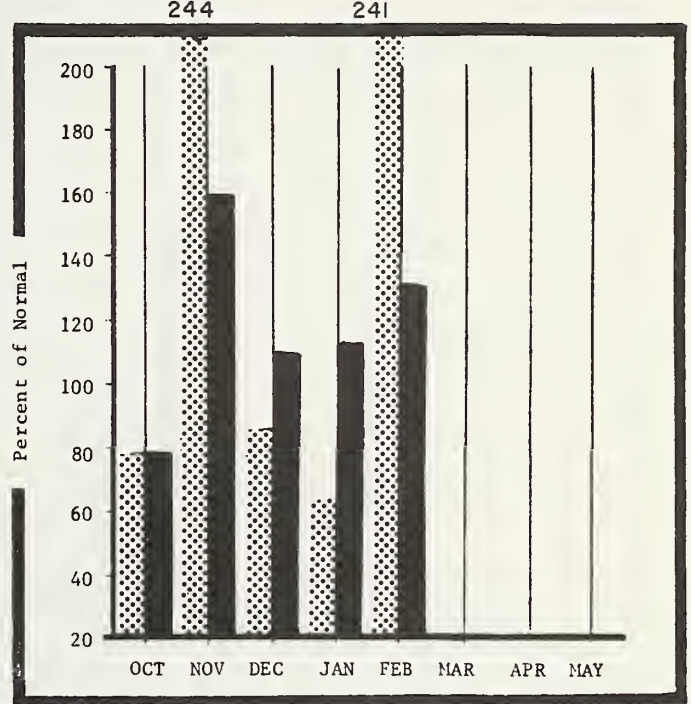
## MOUNTAIN SNOWPACK\*



\*Based on selected stations

Maximum Average   
 Minimum Current

## PRECIPITATION\*



\*Based on selected stations

Monthly precipitation Year to date precipitation

## WATER SUPPLY OUTLOOK:

Accumulated snowpack remains above average for the basin. It ranges from 19% to 50% above normal. Expected streamflows for spring and summer likewise are above average. Precipitation for February was above average by 141%. For the year it is about 34% above normal.

For more information contact your local Soil Conservation Service office.



LOWER GREEN RIVER BASIN

STREAMFLOW FORECASTS

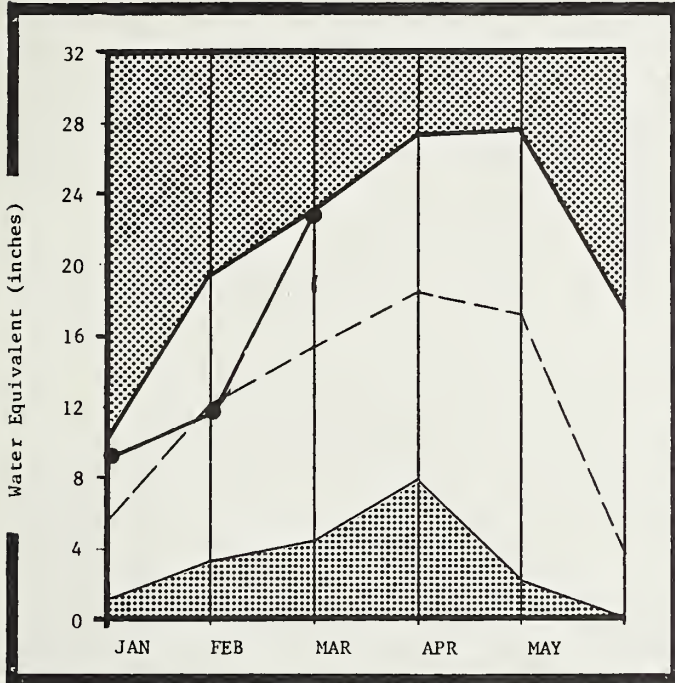
FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
FONTENELLE RESERVOIR Inflow	APR-JUL	869.0	1250.0	143	165	122				
HAMS FORK near Frontier	APR-SEP	71.3	120.0	168	195	142				
GREEN RIVER near Green River, WY *	APR-SEP	1079.0	1450.0	134	154	114				
BLACKS FORK near Milburne, UT	APR-JUL	89.9	120.0	133	168	102				
HENRYS FORK near Manila, UT	APR-SEP	48.0	62.5	130	169	100				
FLAMING GORGE Inflow *	APR-JUL	1248.0	1900.0	152	178	129				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE THIS YEAR	LAST YEAR	** AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	% OF AVERAGE
FONTENELLE	344.8	35.9	168.3	167.1	HAMS FORK RIVER	3	197	150
FLAMING GORGE	3749.0	2958.0	3036.5	---	BLACKS FORK	4	134	126
VIVA NAUGHTON RES		NO REPORT			HENRYS FORK	1	123	119
					GREEN above FLAMING GORGE	15	203	150

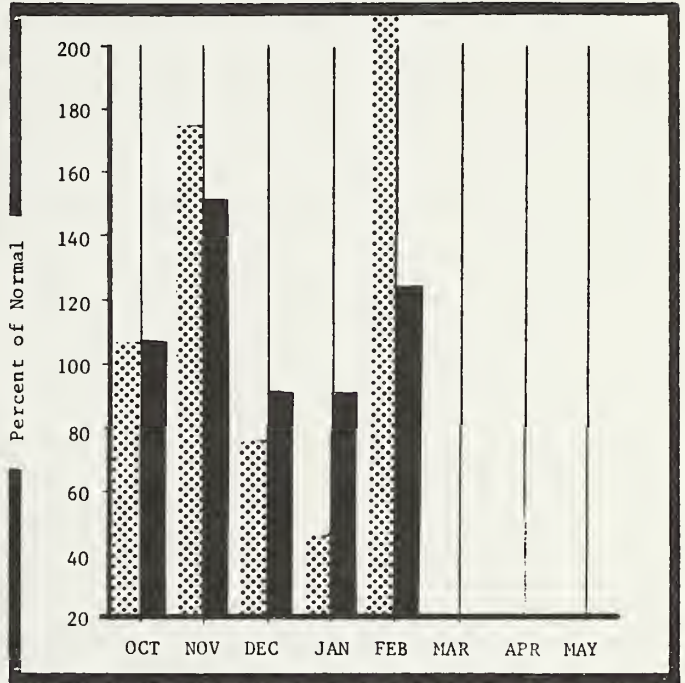
\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.

# UPPER BEAR RIVER BASIN

MOUNTAIN SNOWPACK\*



PRECIPITATION\*



\*Based on selected stations

\*Based on selected stations

Maximum Average   
 Minimum Current

Monthly precipitation Year to date precipitation

## WATER SUPPLY OUTLOOK:

Snowpack in the Smiths Fork and Thomas Fork portion of the basin is about 52% above normal. The snowpack for the rest of the basin is nearly 36% above normal. Precipitation for the month was 184% above average. Precipitation for the year is 24% above average. Forecasted streamflows for the spring and summer are 42% above normal.

For more information contact your local Soil Conservation Service office.

UPPER BEAR RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
SMITHS FORK near Border	APR-SEP	119.0	170.0	142	167	118				
THOMAS FORK near State line	APR-SEP	35.1	50.0	142	145	120				
BEAR RIVER at Utah-Wyoming line	APR-JUL	110.0	149.0	135	157	117				
BEAR RIVER near Woodruff, UT	APR-JUL	139.0	181.0	130	149	107				
BEAR RIVER near Randolph, UT	APR-JUL	110.0	222.0	201	254	150				

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE THIS YEAR	** USEABLE STORAGE LAST YEAR	** AVE.	WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	% OF AVERAGE
WOODRUFF NARROWS	55.8	34.2	57.8	---	UPPER BEAR RIVER	3	141	136
					SMITHS & THOMAS FORK'S	3	195	152
					BEAR RIVER abv IDAHO line	10	163	140

\*Corrected for upstream diversions or changes in reservoir storage.  
Average is for 1961-80 period.



THE FOLLOWING ORGANIZATIONS COOPERATE  
WITH THE SOIL CONSERVATION SERVICE  
IN SNOW SURVEY WORK

State

Conservation Districts of Wyoming  
State Engineer of Wyoming  
Department of Water Resources of Nebraska  
Irrigation Districts of Wyoming  
University of Wyoming  
    Department of Atmospheric Resources  
    Department of Agricultural Engineering

Federal

U.S. Department of Agriculture  
    Soil Conservation Service  
    Forest Service

U.S. Department of Commerce  
    NOAA, National Weather Service

U.S. Department of Interior  
    Bureau of Reclamation  
    Geological Survey  
    National Park Service  
    Bureau of Indian Affairs  
    Bureau of Land Management

Private

Utah Power and Light Company  
Eden Valley Irrigation District

Other organizations and individuals furnish information for the snow survey reports. Their cooperation is gratefully acknowledged.

United States Department of Agriculture  
Soil Conservation Service  
100 East 'B' Street - Room 3124  
Casper, WY 82601

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