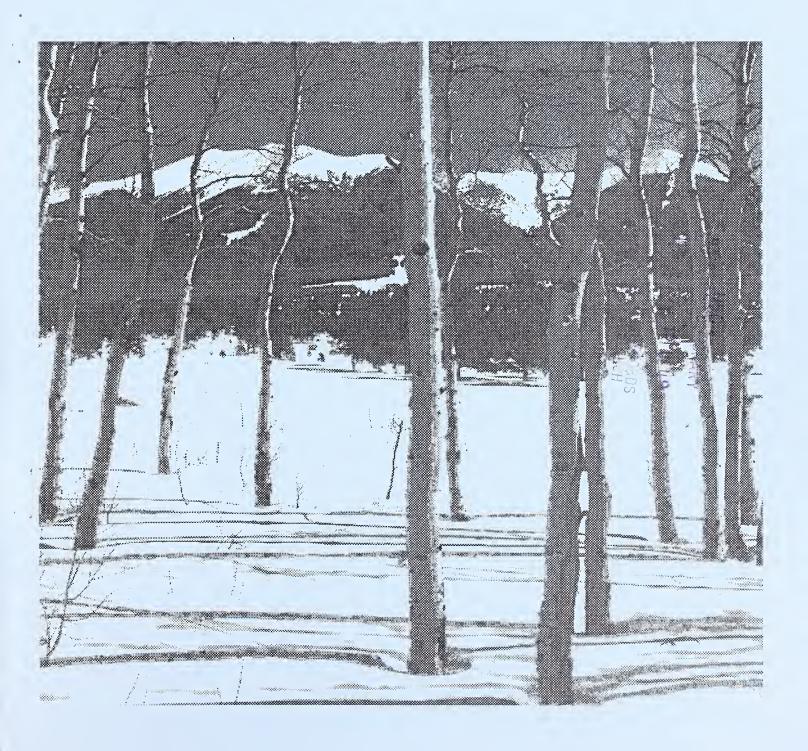


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Natural Resources Conservation Service



Washington Basin Outlook Report February 1, 1996



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

For more water supply and resource management information, contact:

Local Natural Resources Conservation Service Field Office

or Scott Pattee Acting Water Supply Specialist Natural Resources Conservation Service W. 316 Boone Ave., Suite 450 Spokane, WA 99201-2348 (509) 353-2341

How forecasts are made

Most of the annual streamflow in the Western United States originates as snowfall that has accumulated 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 combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Natural Resources Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply 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.

Snowpack data are obtained by using a combination of manual and automated SNOTEL 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 and temperature are monitored on a daily basis and transmitted via meteor burst telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

Forecast uncertainty originates from two sources: (1) uncertainty of future hydrologic and climatic conditions, and (2) error in the forecasting procedure. To express the uncertainty in the most probable forecast, four additional forecasts are provided. The actual streamflow can be expected to exceed the most probable forecast 50% of the time. Similarly, the actual streamflow volume can be expected to exceed the 90% forecast volume 90% of the time. The same is true for the 70%, 30%, and 10% forecasts. Generally, the 90% and 70% forecasts reflect drier than normal hydrologic and climatic conditions; the 30% and 10% forecasts reflect wetter than normal conditions. As the forecast season progresses, a greater portion of the future hydrologic and climatic uncertainty will become known and the additional forecasts will move closer to the most probable forecast.

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Washington Water Supply Outlook

February 1996

General Outlook

As the old northwest wives tale goes; if you don't like the weather, wait a bit and it will change. Heavy dry snowfall blanketed most of Washington in January. The promise of seasonally normal weather rapidly turned to an arctic blast of record low temperatures. The mercury dropped to 24 degrees below zero on January 31 in Spokane, breaking a 115-year old record. Frigid temperatures carried over to the 3rd of February, then abruptly changed from below normal to above normal. With the warmer temperatures came rain and subsequent flooding. Once again the sand bags and armies of volunteers emerged to attempt to hold back the wrath of raging waters. Short-term Weather forecasts are for unseasonably dry and warmer conditions.

Streamflow

Forecasts for summer streamflow are for near to above average with a couple of streams forecasted slightly below average. They vary from 128% of average for the Okanogan near Tonasket to 87% of normal for the Rex River near Cedar Falls. February forecasts for some Western Washington streams include: Cedar River near Cedar Falls, 92%; Green River, 99%; and the Dungeness River, 94%. Some Eastern Washington streams include Mill Creek at Walla Walla, 104%; the Wenatchee River at Peshastin, 108%; and the Colville River, 95%. January streamflows varied greatly throughout the state but were all well above normal. The Naches at Naches River was the highest at 243% of average; and the Snake River below Lower Granite Dam, with 137% of normal, was the lowest in the state. Other streamflows were the following percentage of normal: the Cowlitz River, 148%; the Okanogan River, 227%; the Spokane River, 166%; the Columbia at the Canadian border, 158%, and the Yakima River at Kiona, 228%.

BASIN PERCENT OF AVERAGE
MOST PROBABLE FORECAST
(50 PERCENT CHANCE OF EXCEEDANCE)

Spokane93
Colville-Pend Oreille95-123
Okanogan-Methow92-128
Wenatchee-Chelan95-119
Yakima98-113
Walla Walla
Cowlitz-Lewis
White-Green-Cedar87-99
North Puget Sound91-95
Olympic Peninsula88-94

Snowpack

The February 1 statewide SNOTEL reading showed the snowpack to be 91% of average. Snowpack varied across the state, with the Olympic Peninsula River Basin SNOTEL reporting the lowest with 61% of average, and the Methow River Basin staying the highest at 129% of normal. Westside averages from SNOTEL and February 1 snow surveys include the North Puget River Basins with 78% of normal, the Olympic Basins with 61%, and the Lewis-Cowlitz basins with 85% of normal. Snowpack along the east slopes of the Cascade Mountains include the Yakima with 91%, and the Wenatchee with 90%. Snowpack in the Spokane River Basin was at 73%, and the Pend Oreille River Basin, including Canadian data, had 111% of normal. Maximum snow cover was at Lyman Lake SNOTEL in the north-central Cascade Mountains, with a water content of 43.4 inches. This site would normally have 39.0 inches of water content on February High average in the state goes to Spirit Lake SNOTEL near Mt. St. Helens with 166% of normal. At this time last month Spirit Lake had no reportable snowpack. Because of the dry snow conditions that were prevalent in January we are seeing very little meltout at the 45 SNOTEL sites in Washington. However some of the lower elevations are showing decreases and if the current weather conditions persist we could see another round of flooding from the higher elevations.

BASIN	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Colville Pend Oreille Okanogan Methow Wenatchee Chelan Yakima		
Lewis		
	la36	

New SNOTEL Sites

Elbow Lake and Wells Creek sites were installed in August "95" in cooperation with Whatcom County as a component of their new Early Flood Warning System. The new sites, located on the North Fork and South Fork of the Nooksack River, act as the first indicators of potential upper watershed snow melt.

The final two of six new SNOTEL sites were installed in cooperation with Seattle Water Department. Skookum Creek was installed in the headwaters of the Tolt Reservoir, and Rex River site was installed in the Rex River Basin, a tributary of the Cedar River Watershed. All six sites are used by Seattle Water Department for reservoir management.

Precipitation

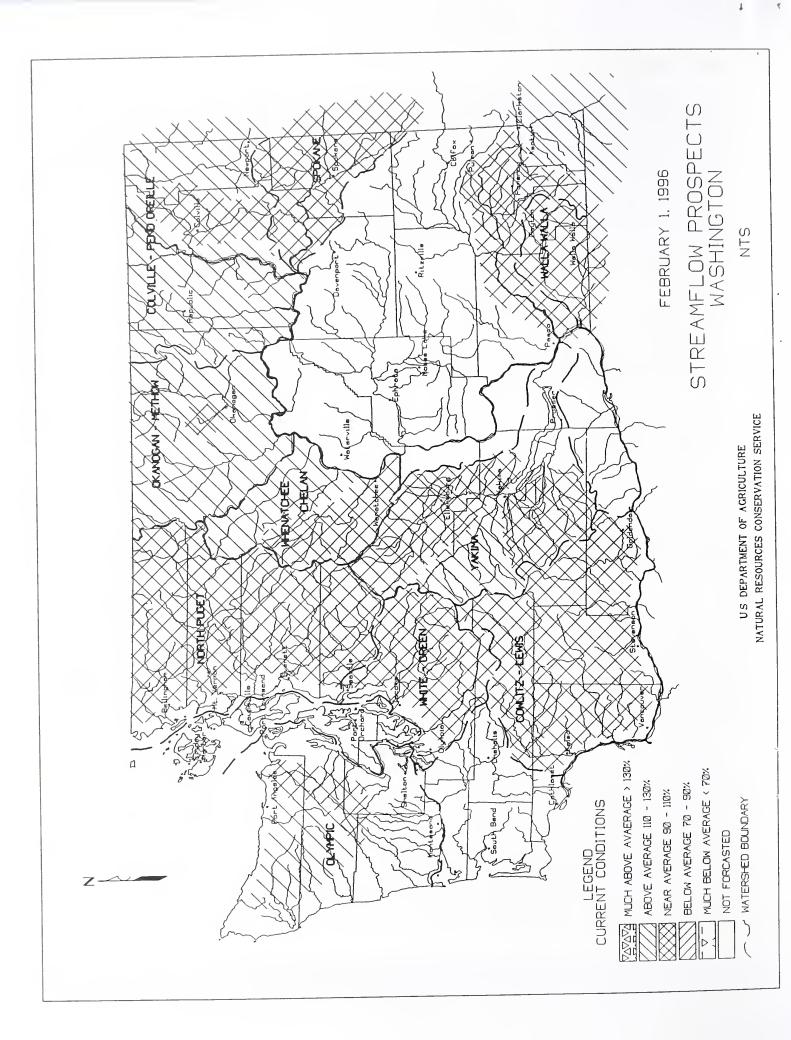
During the month of January the National Weather Service and Natural Resources Conservation Service climate stations showed near to much above normal precipitation across the state. The highest percent of average in the state was at Mill Creek Dam in Walla Walla County, which reported 295% of normal for a total of 6.4 inches. Normal for this site is 2.2 inches for January. Averages for the water year varied from 117% of normal in the Okanogan - Methow River Basins to 163% of normal in the Yakima River basin. The highest average for the year is 217% of normal at Concrete in Skagit County, down from 263% last month.

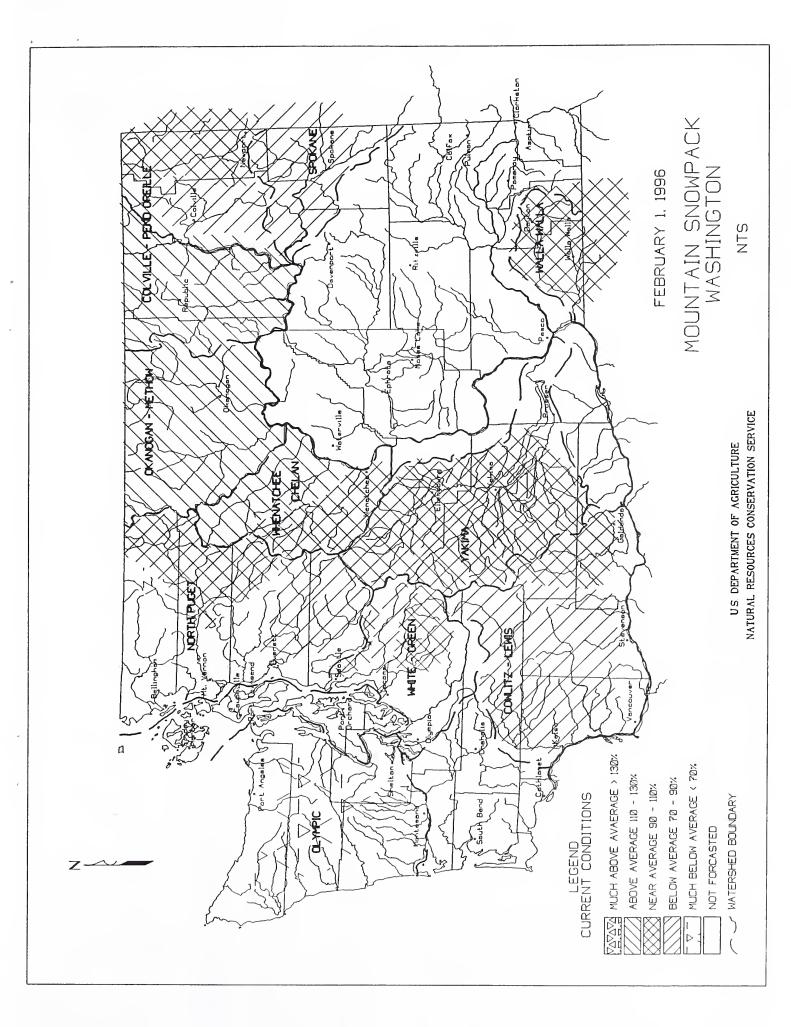
	JANUARY	WATER YEAR
BASIN PERCENT	OF AVERAGE	PERCENT OF AVERAGE
Spokane	126	
Colville-Pend Oreille		
Okanogan-Methow	102	
Wenatchee-Chelan		
Yakima	129	
Walla Walla		
Cowlitz-Lewis		
White-Green-Cedar		
North Puget Sound		
Olympic Peninsula		

Reservoir

Reservoir storage in Washington remained above average for February 1. Reservoir storage in the Yakima Basin was 816,400 acre feet, 127% of normal. Storage at other reservoirs included Roosevelt at 113% of average, and the Okanogan reservoirs with 128% of normal for February 1. The power generation reservoirs include the following: Coeur d'Alene Lake, 127,500 acre feet, or 100% of normal; Chelan Lake, 572,200 acre feet, 127% of average and 85% of capacity; and Ross Lake at 161% of average and 90% of capacity. Release rates had tapered off considerably from all reservoirs from a month ago however warmer temperatures and increased snowmelt over the past 5-7 days has forced reservoir operators to release large quantities of water in order to maintain emergency holding capacity. Until near normal climatic conditions return we may see dramatic changes in reservoir levels.

BASIN PERCENT OF CAPACITY	PERCENT OF AVERAGE
Spokane53	100
Colville-Pend Oreille83	
Okanogan-Methow75	128
Wenatchee-Chelan85	
Yakima77	
North Puget Sound85	

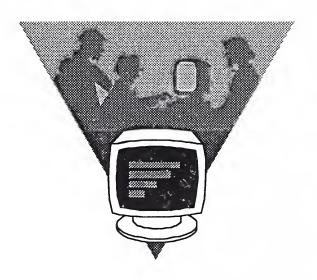




BASIN SUMMARY OF SNOW COURSE DATA

FEBRUARY 1996

BOTH FIRST 1989 1	SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-90	SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-90
Bender Street 1.00												8.0S	16.8	13.6
Second Color 1500 2771/196 17.0 17														14.2
MORNING 6630 3/16776 179 30-7 20-76 20-77 20-76 20-77 20														
MINISTRY 1988 1988 1989 1889 1889 1889 1889 1889 188														
LOCATION FILLON S160 27/21/96 39 13-4 13-5 22-3 23-5														
STEEL SUFFE Color		LLOW 5140												
MARIE CREEK CM 5000 1/26/96 59 19.5 1		CAN. 3100	1/29/96	35	9.3	13.9	11.3							22.0
BOTT CRIEF COL. 5316 1/28/076 52 15.2 15.5 12.8 GROUTE CATE PILLOS 338 2/70176 53 16.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7				5.0	***	16.1	12.6							
BOTTO CRIEF 1.00														
PARTIES CAMP														
CONCINE LIVES 1609 1/279/6 23 4.7 6.5 5.2 MORE INC. PARTIELLOS 1609 1/279/6 23 1.729/6 23 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.				37										
DATION 1 22 127 177 177 177 177 177 177 177 17	GOAT CREEK	3600	1/29/96	23	4.7	6.5	5.2	MORSE LAKE PILI	OW 5400	2/01/96				
PATRON 11 12 22 2719/6 21 3.3 8.8 7.0 THAMEER PASS PILLON 250 2719/6 10 11.5 27.0 27.0		4600	1/29/96	26	5.0	8.3	5.6							
TRINSEL MANUEL 1976 - 1977 - 1978 - 1		2220	1 /20 /07	21	2 2									
MILEGION CORRES PILLON 1910 1/27/96 39 4.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1														
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FOURTH OF JULY 101 250 2019/6 27019/6			1/27/96	39	4.0					_, , , .				
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Designation 10 20 20 20 20 20 20 20														
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SAMPLE FILLIN 510 20196 17.4 16.9 24.8									W 49AU	2/01/96		14 95	22 9	16.0
MATTOR PILLON 516 27/196 17.4 19.5 22.3 LENTS, COMMITTA NUMBER 10.0	-													
COMMON_CAMPER PILLON 1700														
SAMPON-METINEN RIVER BASINS 1.00								CAYUSE PASS						
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FREEZEOUT CT. TRAIL 15.00 131/56 31 3.1 10.4 6.8 POTATO HILL FILLOW 4500 2/01/96 11.45 20.3 16.4														
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MISSEULLOCH CAN, 4200 1/30796 24 5.4 6.0 5.0 CAYINS PASS 5300 2/01/96 51.6E 89.9 52.9 MISSEULLOCK MICKER CAN, 5800 1/27/96 31 -7.6 9.6 6.9 CORRAL PASS PILLOM 6000 2/01/96 21.6E 29.5 21.7 MISSEUM CKEEK CAN, 5800 1/27/96 33 3.10.2 8.7 MISSEUM CKEEK CAN, 5800 1/27/96 23 3.1 MISSEUM CKEEK CAN, 5800 1/27/96 23 3.2 MISSEUM CKEEK CAN, 5800 1/27/96 24 6.2 MISSEUM CKEEK CAN, 5800 1/27/96 30 7.3 6.2 5.8 LESTER CREEK 3100 2/01/96 8.2E 1.0 10.3 FOSTILL LANE CAN, 5800 1/30/96 30 7.3 6.2 5.8 LESTER CREEK 3100 2/01/96 8.2E 1.0 10.3 FOSTILL LANE CAN, 5800 1/30/96 30 7.3 6.2 5.8 LESTER CREEK 3100 2/01/96 11.1E 16.2 14.8 RUSTY CKEEK 1000 1/30/96 22 5.2 8.6 5.0 LIND LAKE 8000 2/01/96 11.1E 16.2 14.8 SALMON HAND FILLOM 5000 2/01/96 11.1E 16.2 14.8 SALMON HAND FILLOM 5000 1/27/96 74 24.3 22.1.8 FOSTILLOM 5000 2/01/96 2.2 8.8 6.7 2.1 5.9 SAMPHILL RIDGE 1000 2/01/96 11.1E 16.2 14.9 SALMON HAND FILLOM 5000 2/01/96 2.2 8.8 6.7 2.1 5.9 SAMPHILL RIDGE 1000 2/01/96 2.2 8.8 6.7 2.1 5.9 SAMPHILL RIDGE 1000 2/01/96 2.2 8.8 6.7 2.1 5.9 SAMPHILL RIDGE 1000 2/01/96 2.2 8.8 6.7 2.1 5.9 SAMPHILLOM 5000 2/01/96 2.2 8.8 6.7 2.1 5.7 SAMPHILLOM 5000 2/01/96 2.2 8.8 6.7 2.1 5.7 SAMPHILLOM 5000 2/01/96 2.2 8.8 SAMPHILLOM 5000 2/01/96 2.2 8.8 SAMPHILLOM 5000 2/01/96 3.0 9.8 SAMPHILLOM 5000 2/01/96 2.2 8.8 SAMPHILLOM 500										2/01/96		11.95	20.7	15.5
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SALMON MEMS FILLOW 4500 2701/96 6.55 12.7 5.9 SAMPLE RIDGE 4700 2701/96 19.1E 26.1 23.9														
STAMPER STAR MITN CAN. 600 1/27/96 74 24.3 21.8 19.2 STAMPEDE PASS FILLOW 2860 2/01/96 9.25 12.5 9.6														
SUMMERIAND RES CAN. 4200 1/30/96 23 8.3 8.4 7.0 MT. GARDNER FILLOW 2600 2/01/96 17.15 23.5 12.9 7.0														
SINDAY SUMMIT CAN. 4300 1/30/96 20 5.1 3.6 4.8 TINKHAM CREEK PILLOW 3000 2/01/96 17.15 17.5 17.7														
WHITE ROCKS MIN CAN. 6000 2/02/96 48 14.2 19.8 15.7 SNOQUAMIE, SKYKOMISH, SKAGIT, BARER RIVERS 48.7 28.8												17.1S	23.5	
HARTS PASS 6500 1/31/96 94 32.6 32.6 29.6 OLALLIE MEMS PILLOW 3600 2/01/96 26.5E 45.6 34.3 HARTS PASS PILLOW 4500 2/01/96 22.8 45.6 34.3 MUTTON CREEK 1 5700 1/30/96 33 8.7 14.7 9.2 STEVENS PASS PILLOW 4070 2/01/96 22.8 40.3 27.3 RISTY CREEK 4000 1/30/96 62 5.2 8.6 6.5 5.0 STEVENS PASS PILLOW 4070 2/01/96 22.8 40.3 27.3 RISTY CREEK 4500 2/01/96 6.5 12.7 5.9 BEAVER CREEK TRAIL 2200 1/30/96 60 15.3 30.6 23.9 SALMON NDMS PILLOW 4500 2/01/96 41.4 54.2 27.1 BECAN TOP AM 6000 1/29/96 11 36.0 45.8 41.2 LYMAN LAKE PILLOW 5900 2/01/96 30.9 45.2 27.1 BECAN TOP AM 6000 1/29/96 11 36.0 45.8 41.2 LYMAN LAKE PILLOW 5900 2/01/96 35.9 39.3 40.2 DEVILS PARK 5900 1/29/96 91 30.0 32.4 30.3 PARK (X RIDGE PILLOW 4600 2/01/96 35.9 39.3 40.2 DEVILS PARK 5900 1/29/96 91 30.1 31.1 10.4 88.8 RAINY PASS PILLOW 4700 2/01/96 35.8 33.5 37.7 24.5 43.5 RAINY PASS PILLOW 4700 2/01/96 35.8 35.5 37.7 24.5 43.5 POPE RIDGE PILLOW 3540 2/01/96 35.8 35.5 37.7 24.5 BERNET PASS EVER PASS PILLOW 4700 2/01/96 35.8 35.5 27.7 BELEWETT PASS SEVEN DEVILS AM 4700 2/01/96 47.4 12.8 47.7 BELEWETT PASS SEVEN DEVILS AM 4700 2/01/96 47.4 12.8 47.7 BELEWETT PASS SEVEN DEVILS AM 4700 2/01/96 47.4 12.8 47.7 BELEWETT PASS SEVEN DEVILS AM 4700 2/01/96 47.4 12.8 47.7 BELEWETT PASS SEVEN DEVILS AM 4700 2/01/96 47.4 12.8 47.7 BELEWETT PASS SEVEN DEVILS AM 4700 2/01/96 47.4 12.8 47.7 BELEWETT PASS SEVEN DEVILS AM 4700 2/01/96 47.5 47.5 47.5 BELEWETT PASS SEVEN DEVILS AM 47.0 2/01/96 47.5 47.5 BELEWETT PASS SEVEN DEVILS				29								11.75	17.7	16.2
MATTS PASS PILLOW 6500 2/01/96 35.85 35.5 27.7 STAMPEDE PASS PILLOW 3600 2/01/96 23.45 48.7 28.8												26 55	45 6	24.2
MUTTON CREEK \$1 5700 1/30/96 33 8.7 14.7 9.2 STEVENS PASS PILLOW 4070 2/01/96 23.4\$ 40.3 27.3 RUSTY CREEK 4000 1/30/96 22 5.2 8.6 5.0 STEVENS PASS SAND SD 3700 1/30/96 60 15.3 40.3 23.9 SALMON HUMS PILLOW 4500 2/01/96 6.5\$ 12.7 5.9 BEAVER CREEK TRAIL 2200 1/30/96 60 15.3 7.7 22.7 19.7 ELEAN, ENTIAT, WENATCHEE BASINS CLOUPY PASS AN 6500 2/01/96 30.9E 45.2 27.1 BEAVER CREEK TRAIL 2200 1/30/96 31 7.7 22.7 19.7 ELEAN, ENTIAT, WENATCHEE BASINS CLOUPY PASS AN 6500 2/01/96 30.9E 45.2 27.1 BEAVER CREEK TRAIL 2200 1/30/96 31 7.7 22.7 19.7 ELEAN, ENTIAT, WENATCHEE BASINS CLOUPY PASS AN 6500 2/01/96 30.9E 45.2 27.1 BEAVER CREEK TRAIL 2200 1/30/96 31 7.7 22.7 19.7 ELEAN, ENTIAT, WENATCHEE BASINS CLOUPY PASS AN 6500 2/01/96 30.9E 45.2 27.1 BEAVER CREEK TRAIL 30.0 2/01/96 30.9E 45.2 27.1 BEAVER PASS AN 6500 2/01/96 30.9E 45.2 27.1 BEAVER PASS AN 6500 2/01/96 30.9E 45.2 27.1 BEAVER PASS AN 6500 2/01/96 30.9E 45.2 27.1 BEAVER CREEK TRAIL 30.0 1/31/96 91 30.0 30.9 E45.2 27.1 BEAVER PASS PILLOW 4600 2/01/96 35.6S 33.0 29.6 FREEZEOUT CK. TRAIL 3500 1/31/96 13 3.1 10.4 8.8 BEAVER CREEK TRAIL 30.0 1/31/96 94 32.6 30.3 BEAVER PASS PILLOW 4780 2/01/96 36.5S 39.7 24.5 HARTS PASS PILLOW 4780 2/01/96 35.6S 39.7 24.5 HARTS PASS PILLOW 59.0 2/01/96 35.8S 35.5 27.7 BEAVER PASS 82 4270 1/29/96 39 7.7 15.9 11.6 BEAVER PASS 82 4270 1/29/96 39 7.7 15.9 11.6 BEAVER PASS PILLOW 4780 2/01/96 43.4S 54.2 39.0 BEAVER PASS PILLOW 4780 2/01/96 43.4S 54.2 39.0 ELEMET PASS 82 11.0 4780 2/01/96 43.4S 54.2 39.0 ELEMET PASS 82 11.0 4780 2/01/96 43.4S 54.2 39.0 ELEMET PASS 82 11.0 4780 2/01/96 43.4S 54.2 39.0 ELEMET PASS 82 11.0 4780 2/01/96 43.4S 54.2 39.0 ELEMET PASS 82 11.0 4780 2/01/96 43.4S 54.2 39.0 ELEMET PASS 82 11.0 4780 2/01/96 43.4S 54.2 39.0 ELEMET PASS 82 11.0 4780 2/01/96 43.4S 54.2 39.0 ELEMET PASS 82 11.0 4780 2/01/96 43.4S 54.2 39.0 ELEMET PASS 82 11.0 4780 2/01/96 43.4S 54.2 39.0 ELEMET PASS 82 11.0 4780 2/01/96 40.7 53.5 53.5 39.7 24.5														
RUSTY CREEK 4000 1/30/96 22 5.2 5.2 8.6 5.0 STEVENS PASS SAND SD 3700 1/30/96 60 15.3 30.6 23.9 SAND SD 3700 1/30/96 60 15.3 30.9 SAND SD 3700 1/29/96 31 3.7 7 24.5 SAND SD 3700 1/29/96 31 3.7 7 24.5 SAND SD 3700 1/29/96 91 30.0 32.6 25.2 SAND SD 3700 1/29/96 91 30.0 32.6 25.2 SAND SD 3700 1/29/96 91 30.0 32.6 SAND SD 3700 1/30/96 92 SAND SD 3700 1/29/96 91 30.0 32.6 SAND SD 3700 1/29/96 91 30.9 SAND SD 3700 1/29/96 91 30.9 SAND SD 3700 1/29/96 91 30.0 32.6 SAND SD 3700 1/29/96 32														
SALMON MIMS PILLOW 4500 2/01/96 6.55 12.7 5.9 BEAVER CREEK TRAIL 2200 1/30/96 26 5.8 12.2 9.7 CLOUDY PASS AM 6500 2/01/96 30.9E 45.2 27.1 BROWN TOP AM 6600 1/29/96 110 36.0 45.8 41.2 LYMN LAYE PILLOW 5900 2/01/96 43.45 54.2 39.0 CLOUDY PASS AM 6500 2/01/96 30.9E 45.2 27.1 BROWN TOP AM 6600 1/29/96 110 36.0 45.8 41.2 LYMN LAYE PILLOW 500 2/01/96 35.65 33.0 29.6 FREEZEOUT CK. TRAIL 3500 1/23/96 91 30.0 32.4 30.3 PARK CK RIDGE PILLOW 4600 2/01/96 35.65 33.0 29.6 FREEZEOUT CK. TRAIL 3500 1/31/96 13 3.1 10.4 8.8 RAINY PASS PILLOW 4780 2/01/96 36.55 39.7 24.5 HARTS PASS FILLOW 6500 2/01/96 35.85 39.7 24.5 HARTS PASS 6500 1/31/96 35.85 35.5 27.7 BRIEF 1600 1/28/96 26 6.4 9.8 6.0 40.8 32.6 27.7 BRIEF 1600 1/28/96 56 15.3 25.2 19.9 LYMN LAKE PILLOW 5900 2/01/96 43.45 54.2 39.0 BERNET PASS 82 4270 1/29/96 39 7.7 15.9 11.6 NEW HOZOMEN LAKE PILLOW 5900 1/30/96 12 2.1 2.3 5.4 BLEWETT PASS 82 4270 1/29/96 39 7.7 15.9 11.6 NEW HOZOMEN LAKE 2800 1/30/96 61 22.1 2.3 5.4 BLEWETT PASS 82 4270 1/29/96 39 7.7 15.9 11.6 NEW HOZOMEN LAKE 2800 1/30/96 61 22.1 2.3 5.4 BLEWETT PASS 82 1/20 1/30/96 34 7.4 12.8 8.7 RAINY PASS PILLOW 4780 2/01/96 43.45 54.2 39.0 BLEWETT PASS 82 1/20 1/30/96 34 7.4 12.8 8.7 RAINY PASS PILLOW 4780 2/01/96 43.45 54.2 39.0 BLEWETT PASS 82 PILLOW 510 2/01/96 43.45 54.2 39.0 TRUDGER BASIN PILLOW 5900 1/30/96 68 20.8 32.6 27.7 CHIMANIKUM G.S. 2500 1/30/96 40 9.3 16.0 12.4 DOCK BUTTE AM 3800 1/30/96 60 23.0 43.0 43.0 41.1 STEVENS PASS SAND SD 3700 1/30/96 60 15.3 30.6 23.9 JASPER PASS AND 5D 3700 1/30/96 60 15.3 30.6 23.9 JASPER PASS AND 5D 3700 1/30/96 60 15.3 30.6 23.9 JASPER PASS AND 5D 3700 1/30/96 60 15.3 30.6 23.9 JASPER PASS AND 5D 3700 1/30/96 60 15.3 30.6 23.9 JASPER PASS AND 5D 3700 1/30/96 60 22.0 45.0 45.0 45.8 UPPER WHEELER 1LLOW 4400 2/01/96 9.45 13.0 9.3 WAISON LAKES AM 4500 1/30/96 60 22.0 33.0 38.7 COLOCKOWN CREEK TRAIL 300 1/30/96 61 50 50.8 14.6 6.4 CHARLOW AND														
CLUUP PASS AM 6500 2/01/96 30.9E 45.2 27.1 LYHAN LAKE PILLOW 5900 2/01/96 30.9E 45.2 27.1 MINERS RIDGE PILLOW 6200 2/01/96 35.9S 39.3 40.2 DEVILS PARK S 5000 1/29/96 91 30.0 32.4 30.3 PARK CR RIDGE PILLOW 6000 2/01/96 35.6S 31.0 29.6 FRAINY PASS MR 6500 1/29/96 91 30.0 32.4 30.3 RAINY PASS PILLOW 4700 2/01/96 35.6S 31.0 29.6 RAINY PASS PILLOW 4700 1/28/96 68 20.8 32.6 27.7 BRIEF 1600 1/28/96 26 6.4 9.8 6.0 REBENE-MILL CREEK (d) 3170 1/30/96 68 15.3 25.2 19.9 BEBNE-MILL CREEK (d) 3170 1/30/96 56 15.3 25.2 19.9 BLEWETT PASS 82 4270 1/29/96 39 7.7 15.9 11.6 BLEWETT PASS 82 4270 1/29/96 39 7.7 15.9 11.6 BLEWETT PASS 82 4270 1/29/96 34 7.4 12.8 8.7 CHINAURUM G.S. 2500 1/30/96 40 43.4S 54.2 39.0 LYHAN LAKE PILLOW 3370 2/01/96 43.4S 54.2 39.0 LYHAN LAKE PILLOW 3000 2/01/96 43.4S 54.2 39.0 MERRITT TO SHOW A STANDARD A STANDARD A STANDARD A STEVENS PASS PILLOW 4700 2/01/96 6 43.4S 54.2 39.0 LYHAN LAKE PILLOW 3000 2/01/96 23.4S 40.3 27.3 LYHAN LAKE PILLOW 3000 2/01/96 23.4S 40.3 27.3 LYHAN LAKE PILLOW 3000 2/01/96 23.4S 40.3 27.3 LYHAN LAKE PILLOW 5000 2/01/96 23.4S 40.3 27.3 LYHAN LAKE PILLOW 5000 1/30/96 60 15.3 30.6 23.9 LYPER WHEELER PILLOW 4000 1/27/96 22 5.2 8.5 8.0 LYPER WHEELER PILLOW 4000 1/27/96 25 5.2 8.5 8.0 LYPER WHEELER PILLOW 4000 1/27/96 25 5.2 8.5 8.0 LYPER WHEELER PILLOW 4000 1/27/96 25 5.2 8.5 8.0 LYPER WHEELER PILLOW 4000 1/30/96 62 22.0 33.0 LYPER WHEELER PILLOW 4000 1/30/96 62 22													12.2	9.7
LYMAN LAKE PILLOW 5900 2/01/96 43.4\$ 54.2 39.0 CLOUDY PASS AM 6500 2/01/96 30.9E 45.2 27.1 MINERS RIDGE PILLOW 6200 2/01/96 35.9S 39.3 40.2 DEVILS PARK 5900 1/29/96 91 30.0 32.4 30.3 PARK CK RIDGE PILLOW 4600 2/01/96 35.6S 33.0 29.6 FREEZEOUT CK. TRAIL 3500 1/31/96 13 3.1 10.4 8.8 RAINY PASS 1/30/96 68 20.8 32.6 27.7 HARTS PASS 6500 1/31/96 94 32.6 32.6 29.6 RAINY PASS PILLOW 4700 2/01/96 36.5S 39.7 24.5 HARTS PASS PILLOW 6500 2/01/96 35.8S 35.5 27.7 BRIEF 1600 1/28/96 26 6.4 9.8 6.0 KLESILWA CAN. 3710 2/01/96 12 2.4 4.9 9.3 BERNE-MILL CREEK (d) 3170 1/30/96 56 15.3 25.2 19.9 MEADOWS CABIN 1900 1/30/96 12 2.1 2.3 5.4 BLEWETT PASS 22 4270 1/29/96 39 7.7 15.9 11.6 NEW HOZOMERI LAKE 2800 1/39/96 15 3.7 6.3 8.0 BLEWETT PASS 22 4270 1/29/96 34 7.4 12.8 8.7 RAINY PASS PILLOW 4780 1/30/96 68 20.8 32.6 27.7 CHIWAUKUH G.S. 2500 1/30/96 8.0S 16.8 13.6 RAINY PASS PILLOW 3370 2/01/96 27.1S 31.6 22.0 THUNDER BASIN 4200 1/30/96 68 20.8 32.6 27.7 CHIWAUKUH G.S. 2500 1/30/96 43.4S 54.2 39.0 THUNDER BASIN PILLOW 370 2/01/96 27.1S 31.6 22.0 THUNDER BASIN PILLOW 4780 2/01/96 20.7S 25.7 MERRITT 2140 1/30/96 40 9.3 16.0 12.4 DOCK BUTTE AM 3800 1/30/96 60 23.0 43.0 66.0 45.6 STEVENS PASS PASS SAND SD 3700 1/30/96 60 15.3 30.6 23.9 JASPER PASS AM 5400 1/30/96 60 23.0 43.0 66.0 45.6 STEVENS PASS SAND SD 3700 1/30/96 62 25.2 8.5 8.0 MT. BLUM AM 5800 1/30/96 60 22.0 33.0 32.6 27.0 S2.0 UPPER WHEELER PILLOW 4400 2/01/96 9.4S 13.0 9.3 ROCKY CREEK AM 3600 1/30/96 62 22.0 33.0 38.0 35.1 UPPER WHEELER PILLOW 4400 1/27/96 22 5.2 8.5 8.0 MT. BLUM AM 5800 1/30/96 62 22.0 33.0 38.0 35.1 UPPER WHEELER PILLOW 4400 1/27/96 22 5.2 8.5 8.0 MT. BLUM AM 5800 1/30/96 62 22.0 33.0 38.0 35.1 UPPER WHEELER PILLOW 4400 1/27/96 22 5.2 8.5 8.0 MT. BLUM AM 5800 1/30/96 62 22.0 33.0 38.0 35.1 UPPER WHEELER PILLOW 4400 1/27/96 22 5.2 8.5 8.0 STRUDBERS, DUNGENES, DUNGENES, OUILCENE RIVERS LIKELAW AND 1/27/96 22 5.2 8.5 8.0 STRUDBERS, DUNGENES, OUILCENE RIVERS LIKHA, MORSE, DUNGENES, DUNGENES, OUILCENE RIVERS LIK												7.7	24.7	
MINERS RIDGE PILLOW 6200 2/01/96 35.9S 39.3 40.2 DEVILS PARK 5900 1/29/96 91 30.0 32.4 30.3 PARK CRIDGE PILLOW 4600 2/01/96 35.6S 33.0 29.6 FREEZEOUT CK. TRAIL 3500 1/31/96 94 32.6 32.6 29.6 RAINY PASS PILLOW 4780 1/30/96 68 20.8 32.6 27.7 HARTS PASS PILLOW 6500 2/01/96 35.8S 35.5 27.7 HARTS PASS PILLOW 6500 2/01/96 35.8S 35.5 27.7 PARTS PASS PILLOW 5500 2/01/96 17.1S 21.5 13.9 LYHAN LAKE PILLOW 5900 2/01/96 43.4S 54.2 39.0 BERNE-HILL CREEK (d) 3170 1/30/96 56 15.3 25.2 19.9 MEADOWS CABIN 1900 1/30/96 12 2.1 2.3 5.4 BLEWETT PASS 82 4270 1/29/96 39 7.7 15.9 11.6 NEW HOZOMEEN LAKE 2800 1/29/96 15 3.7 6.3 8.0 BLEWETT PASS 82 12.0 4270 2/01/96 8.0S 16.8 13.6 RAINY PASS PILLOW 4780 2/01/96 43.4S 54.2 39.0 BLEWETT PASS 82 12.0 1/30/96 34 7.4 12.8 8.7 RAINY PASS PILLOW 4780 2/01/96 43.4S 54.2 39.0 LYHAN LAKE PILLOW 5900 2/01/96 43.4S 54.2 39.0 BLEWETT PASS 82 12.0 1/30/96 39 7.7 15.9 11.6 NEW HOZOMEEN LAKE 2800 1/29/96 15 3.7 6.3 8.0 BLEWETT PASS 82 12.0 1/30/96 34 7.4 12.8 8.7 RAINY PASS PILLOW 4780 2/01/96 43.4S 54.2 39.0 THUNDER BASIN 1/30/96 68 20.8 32.6 27.7 HERRITT 1.1 1.0 1.3 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	CLOUDY PASS	AM 6500			30.9E	45.2	27.1	BROWN TOP	M 6000		110			
PARK CK RIDGE PILLOW 4600 2/01/96 35.6S 33.0 29.6 FREEZEOUT CK. TRAIL 3500 1/31/96 13 3.1 10.4 8.8 RAINY PASS 1/30/96 68 20.8 32.6 27.7 HARTS PASS 6500 1/31/96 94 32.6 32.6 29.6 RAINY PASS PILLOW 4780 2/01/96 36.5S 39.7 24.5 HARTS PASS PILLOW 6500 2/01/96 35.8S 35.5 27.7 BRIEF 1600 1/28/96 26 6.4 9.8 6.0 KLESILKWA CAN. 3710 2/01/96 12 2.4 4.9 9.3 POPE RIDGE PILLOW 3500 2/01/96 17.1S 21.5 11.9 LYMAN LAKE PILLOW 5900 2/01/96 41.4S 54.2 39.0 HEADOWS CABIN 1900 1/30/96 12 2.1 2.3 5.4 BLEWETT PASS 8/2 PILLOW 4700 2/01/96 8.0S 16.8 13.6 RAINY PASS PILLOW 4700 2/01/96 36.5S 39.7 24.5 HARTS PASS PILLOW 4700 2/01/96 8.0S 16.8 13.6 RAINY PASS PILLOW 4700 2/01/96 36.5S 39.7 24.5 HINDRER BASIN PILLOW 3700 2/01/96 36.5S 39.7 24.5 HINDRER BASIN PILLOW 3700 2/01/96 27.1S 31.6 22.0 THUNDER BASIN PILLOW 4700 2/01/96 36.5S 39.7 24.5 HINDRER BASIN PILLOW 4700 2/01/96 27.1S 31.6 22.0 THUNDER BASIN PILLOW 4700 2/01/96 20.7S 25.7 HERRITT 1 2140 1/30/96 40 9.3 16.0 12.4 DOCK BUTTE AM 3800 1/30/96 60 23.0 43.0 41.1 STEVENS PASS PILLOW 4700 2/01/96 23.4S 40.3 27.3 EASY PASS AM 500 1/30/96 60 23.0 43.0 41.1 STEVENS PASS SAND SD 3700 1/30/96 60 15.3 30.6 23.9 JASPER PASS AM 5000 1/30/96 60 23.0 43.0 41.1 STEVENS PASS SAND SD 3700 1/30/96 60 15.3 30.6 23.9 JASPER PASS AM 5000 1/30/96 70 27.0 52.0 48.2 UPPER WHEELER PILLOW 4400 1/27/96 22 5.2 8.5 8.0 MT. BLUM AM 5800 1/30/96 80 29.0 45.0 41.3 UPPER WHEELER PILLOW 4400 1/27/96 22 5.2 8.5 8.0 MT. BLUM AM 5800 1/30/96 60 20 7.0 5.0 6.2 UPPER WHEELER PILLOW 4400 1/27/96 22 5.2 8.5 8.0 MT. BLUM AM 5800 1/30/96 60 20 7.0 5.0 6.2 UPPER WHEELER PILLOW 4400 1/27/96 22 5.2 8.5 8.0 MT. BLUM AM 5800 1/30/96 60 20 7.0 5.0 6.2 UPPER WHEELER PILLOW 4400 1/27/96 22 5.2 8.5 8.0 MT. BLUM AM 5800 1/30/96 60 20 7.0 5.0 6.2 UPPER WHEELER PILLOW 4400 1/27/96 22 5.2 8.5 8.0 MT. BLUM AM 5800 1/30/96 60 20 7.0 5.0 6.2 UPPER WHEELER PILLOW 4400 1/27/96 22 5.2 8.5 8.0 MT. BLUM AM 5800 1/30/96 60 20 7.0 5.0 6.2 UPPER WHEELER PILLOW 4400 1/27/96 22 5.2 8.5														
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AHTANUM R.S. 3100 2/01/96 6.0E 36.4 5.8 DEER PARK 5200 1/30/96 20 4.4 11.0 13.5		LOW 5310	2/01/96		6.6S	14.6	6.4							
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SECULAR COMP. 1/27/70 37 (.1 13.7 11.0 MODEL COMP. 1100 1100 1100 1100 1100 1100 1100 11														
	-22011 . 1003 #2	12.70	., 27, 70	3,		43.7		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						



SNOW SURVEY OFFERS INTERNET HOMEPAGE

On February 1, the Water and Climate Center (WCC) began providing Snow Survey and Water Supply Forecasting products on the INTERNET. A few of our more popular products (SNOTEL Update Reports, State Basin Outlook Reports, and products previously published in the Water Supply Outlook for the Western United States) are now accessible via our new Home Page and our Anonymous FTP server.

The Universal Resource Locator (URL) for the home page is:

http://www.wcc.nrcs.usda.gov/

The address for the Anonymous FTP server is:

ftp.wcc.nrcs.usda.gov

You can access the Anonymous FTP server using your INTERNET browser (Netscape, Mosaic, etc.) by changing the URL to:

ftp://ftp.wcc.nrcs.usda.gov/

We will continue to add more products to the Home Page and Anonymous FTP server and welcome any comments and suggestions you might have.

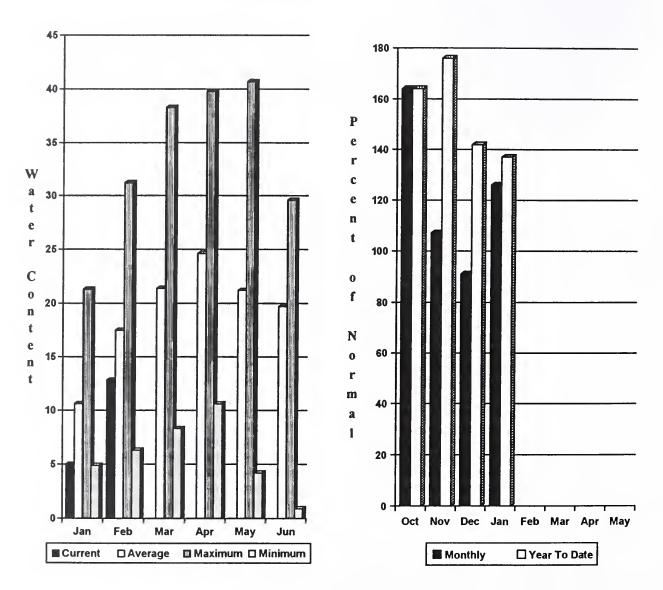
Questions and comments should be directed to the NRCS Snow Survey and Water Supply Forecasting contact in your state or in Portland:

Scott Pattee (509)353-2341 shp@wa1.wa.nrcs.usda.gov Chris Pacheco (503) 414-3056 a16cpacheco@attmail.com Jim Marron (503) 414-3047 a16jmarron@attmail.com

Natural Resources Conservation Service W 316 Boone, Suite 450 Spokane, WA 99201

Natural Resources Conservation Service Water and Climate Center 101 SW Main Street, Suite 1600 Portland, OR 97204-3224

Precipitation* (% of normal)



*Based on selected stations

The February 1 forecasts for summer runoff within the Spokane River Basin are 93-94% of normal, about the same as last year at this time. The forecast is based on a basin snowpack that is 73% of average and precipitation that is 137% of normal for the water year. Precipitation for January was 126% of average. Streamflow on the Spokane River was 166% of average for January. February 1 storage in Coeur d'Alene Lake was 127,500 acre feet, 113% of normal, and 53% of capacity.

SPOKANE RIVER BASIN

Streamflow Forecasts - February 1, 1996

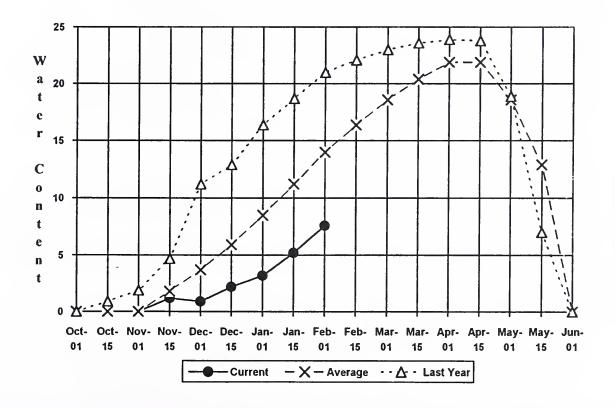
Forecast Point	Forecast Period		70% (1000AF)	-= C	hance Of 50% (Most	Conditions Exceeding Probable) (% AVG.)	* ======= 	Wetter : 30% 000AF)	10% (1000AF)	•	: Avg.
SPOKANE near Post Falls (2)	APR-SEP APR-JUL	1891 1810	2283 2197	 	2550 2460	93 93	•	2817 2723	3209 3110		2730 2633
SPOKANE at Long Lake	APR-JUL APR-SEP	2055 2241	2469 2669	 	2750 2960	94 94	•	3031 3251	3445 3679		2936 3159
SPOKAI Reservoir Storage (1	NE RIVER BAS1N 1000 AF) - End	of January	, ,			Watershed		RIVER BA		ary 1, 1	.996
.Reservoir	Usable Capacity 	*** Usabl This Year	e Storage Last Year	*** Avg	 Wate	rshed		Number of Data Site	222	Year as Yr Av	
COEUR D'ALENE	238.5	127.5	116.5	127.8	Spok	ane River		12	67	.====.2=== 7	3

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

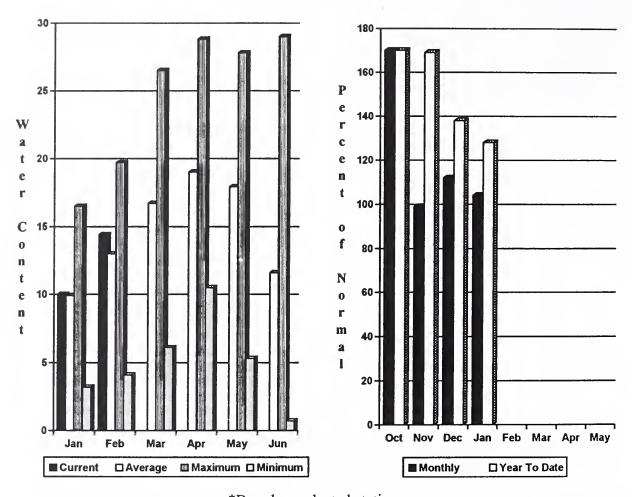
The average is computed for the 1961-1990 base period.

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

Quartz Peak SNOTEL Elevation 4700 ft.



Precipitation* (% of normal)



*Based on selected stations

The forecast for the Kettle River streamflow is for 123% of normal; the Pend Oreille, below Box Canyon, 116%; Priest River, near the town of Priest River, 108% of normal for the summer runoff period. Forecast for the Columbia River at Birchbank is for runoff to be 117% of average. January streamflow was 158% of normal on the Pend Oreille River, 158% on the Columbia at the International Boundary, and 236% on the Kettle River. February 1 snow cover was 111% of normal in the Pend Oreille Basin, and 113% for the Kettle River Basin. Precipitation during January was 104% of average, bringing the water year-to-date to 128% of normal.

COLVILLE - PEND OREILLE RIVER BASINS

Streamflow Forecasts - February 1, 1996

		<<=====	== Drier ====	== Future	Conditions	Wetter -	===>>	
Forecast Point	Forecast	======		= Chance Of	Exceeding *		======	
	Period	90%	70%		t Probable)	30%	10%	30-Yr Avg.
		(1000AF) (1000AF)) (% AVG.)	(1000AF) (1000AF)	(1000AF)
PEND OREILLE Lake Inflow (1,2)	APR-JUL	11578	14206	1 15400	117		19222	13150
	APR-SEP	12620	15495	1 16800	117		20980	14370
	APR-JUN	9692	12173	1 13300	117	1 14427	16908	11390
PRIEST nr Priest River (1,2)	APR-JUL	602	790	875	107	960	1148	814
	APR-SEP	643	844	935	108	1026	1227	868
PEND OREILLE bl Box Canyon (1,2)	APR-JUL	12025	14415	1 15500	116	16585	18975	13380
,	APR-SEP	13107	15715	16900	116	18085	20693	14590
	APR-JUN	10410	12466	13400	116	14334	16390	11570
CHAMOKANE CK nr Long Lake	MAY-AUG	1.48	5.68	8.48	9	11.28	15.48	9.40
COLVILLE at Kettle Falls	APR-SEP	67	101	1 124	95	1 147	181	131
	APR-JUL	60	92	1 113	94	1 134	166	120
	APR-JUN	57	86	105	95	124	153	111
KETTLE near Laurier	APR-SEP	1915	2132	2280	123	1 2428	2645	1854
	APR-JUL	1838	2035	1 2170	123	1 2305	2502	1761
	APR-JUN	1694	1864	1980	125	2096	2266	1585
COLUMBIA at Birchbank (1,2)	APR-JUL	35217	39194	1 41000	117	1 42806	46783	35140
	APR-SEP	43856	48837	J 51100	117	53363	58344	43810
	APR-JUN	25814	28692	30000	117	31308	34186	25670
COLUMBIA at Grand Coulee Dm (1,2)	APR-SEP	63034	71607	1 1 75500	116	79393	87966	64850
	APR-JUL	52846	60035	6 3 3 0 0	116	66565	73754	54543
	APR-JUN	41856	47457	50000	117	52543	58144	42756
				 		- PEND ORE1LLE R		
COLVILLE - PEND C Reservoir Storage (100	0 AF) - End	of Januar		i	Watershed S	Snowpack Analysis	- Februa	ry 1, 1996
	Usable I		ole Storage *		******	Number		Year as % of
Reservoir	Capacity		Last		er <i>s</i> hed	of		=======================================
	i	Year	Year A	vg l		Data Site:		Yr Average
ROOSEVELT	5232.0				ville River	1	72	79

599.0 |

Pend Oreille River

110

113

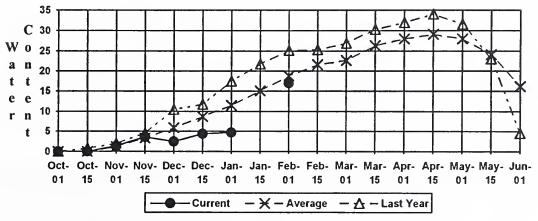
116

151.2

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

BANKS

Bunchgrass Meadow SNOTEL Elevation 5000 ft.

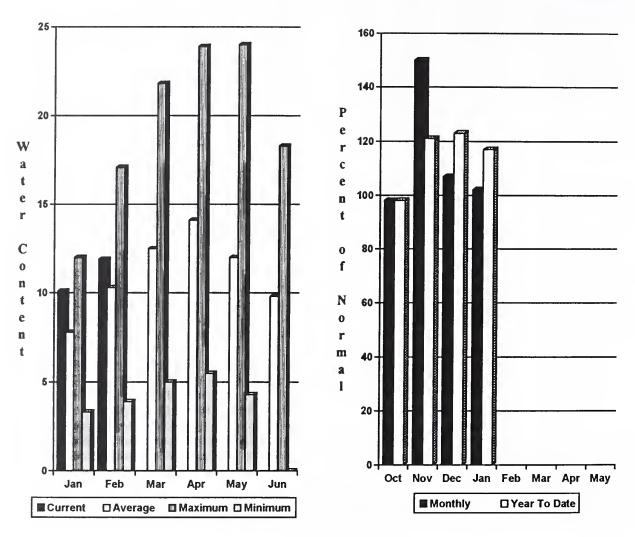


^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

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

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

Precipitation* (% of normal)



*Based on selected stations

Summer runoff forecast for the Okanogan River is 128% of normal; the Similkameen River, 125%, the Methow River, 126%, and Salmon Creek, 92% of normal. February 1 snow cover on the Okanogan was 114% of normal, and the Methow, 118%. January precipitation in the Okanogan-Methow was 102% of normal, with water year-to-date at 117% of average. January streamflow on the Methow River was 149% of normal, 227% on the Okanogan River, and 226% on the Similkameen. Snow-water-content at the Harts Pass SNOTEL, elevation 6,500 feet, was 35.8 inches; normal for this site is 27.7 inches. Storage in the Conconully Reservoirs was 17,700 acre feet, which is 75% of capacity and 1128% of the February 1 average.

OKANOGAN - METHOW RIVER BASINS

Streamflow Forecasts - February 1, 1996

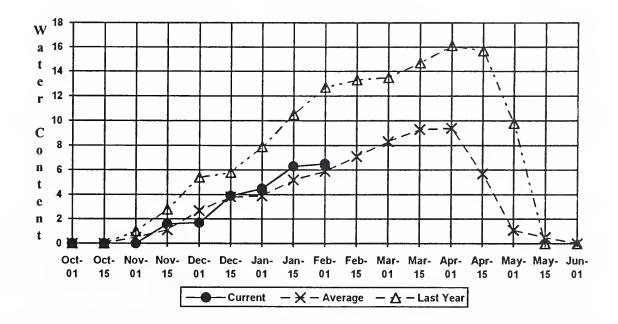
		<<=====	Drier ====	== Future C	onditions =	===== Wetter	====>>	
Forecast Point	Forecast Period	90% (1000AF)	70% (1000AF)	50% (Most	Exceeding * Probable) (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
SIMILKAMEEN nr Nighthawk (1)	APR-SEP	1161	1655	1750	125	1845	2392	1399
	APR-JUL	1344	1541	1630	125	1719	1916	1304
	APR-JUN	1150	1315	1390	125	1465	1630	1113
OKANOGAN RIVER nr Tonasket (1)	APR-SEP	1348	1872	2080	128	2288	2712	1624
	APR-JUL	1290	1696	1880	128	2064	2470	1467
	APR-JUN	1133	1440	1580	128	1 1720	2027	1234
SALMON CREEK near Conconully	APR-JUL	5.3	12.6	17.6	92	23	30	19.1
	APR-SEP	5.9	13.3	18.4	92	1 24	31	20
METHOW RIVER near Pateros	APR-SEP	1000	1113	1190	126	1 1267	1380	942
	APR-JUL	929	1031	1100	126	1 1169	1271	873
	APR-JUN	78 9	879	940	126	1 1001	1091	746
OKANOGAN - ME Reservoir Storage (10			***************************************			GAN - METHOW R1 Snowpack Analys		ry 1, 1996
	Usable		e Storage **	* I		Numbe	r This	Year as % of

· OKANOGAN -	JETHOM KIAEK DY	10 I NO			1	ORANOGAN - P	IETHOM KIVEK I	SMSINS	
Reservoir Storage (1000 AF) - End	of Janua	ry		Wate	ershed Snowpac	k Analysis -	February :	1, 1996
		=======		**=====					
Reservoir	-	*** Usal This	ble Storag Last	e ***	Watershed	i	Number of		ras % of
	1	Year	Year	Avg	1		Data Sites	Last Yr	Average
				======			===========		
SALMON LAKE		NO REPO	RT		Okanogan	River	19	94	114
CONCONULLY RESERVOIR		NO REPO	RT		Methow Ri	iver	4	79	118
					1				

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

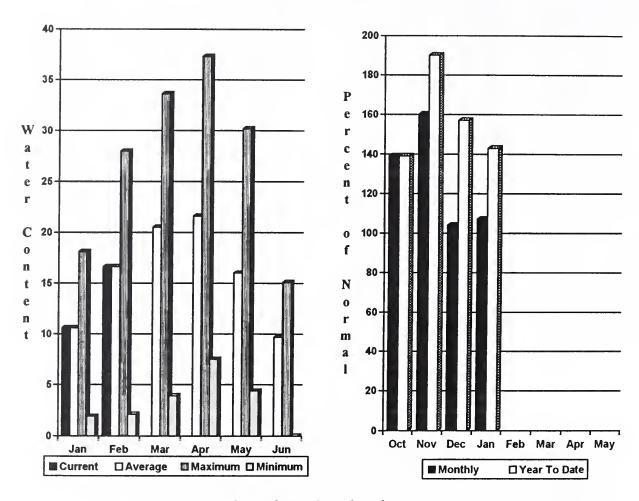
The average is computed for the 1961-1990 base period.

Salmon Meadows SNOTEL Elevation 4500 ft.



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

Precipitation* (% of normal)



*Based on selected stations

Precipitation during January was 107% of normal in the basin and 143% for the year to date. Runoff for the Entiat River is forecast to be 119% of normal for the summer. The April-September forecast for the Chelan River is for 113%, for the Wenatchee River it is 106%, and 113% on the Stehekin. Icicle Creek is forecast to be 97% of normal this Streamflow for January on the Chelan River was 156% of average and on the Wenatchee River it was 185% of normal. snowpack in the Wenatchee Basin was 90% of average, which is only 60% of last year. The Chelan Basin was 114% of average and Stemilt Creek was at 89% of normal. Snowpack in the Entiat River Basin was at 118% of average. Reservoir storage in Lake Chelan was 572,200 acre feet or 127% of February 1 average and 85% of capacity. Lyman Lake SNOTEL had This site normally has the most snow water with 43.4 inches of water. 39.0 inches and last year it had 54.2 inches on February 1.

WENATCHEE - CHELAN RIVER BASINS

Streamflow Forecasts - February 1, 1996

		<<	- Drier	Future	Conditions =	Wetter	====>>	
Forecast Point	Forecast	======		= Chance Of	Exceeding *	*****		
	Period	90%	70%		t Probable)	•	10%	30-Yr Avg.
		(1000AF)	• • • • • • • • • • • • • • • • • • • •) (% AVG.)	(1000AF)		
CHELAN RIVER near Chelan	APR-SEP	1135	1241	1312	113	1383	1489	1160
	APR-JUL	1041	1130	1190	116	1250	1339	1024
	APR-JUN	808	884	935	115	986	1062	812
STEHEKIN near STEHEKIN	APR-SEP	821	889	935	113	981	1049	827
	APR-JUL	716	7 69	806	115	843	896	701
	APR-JUN	544	589	[620	115	651	696	538
ENTIAT RIVER near Ardenvoir	APR-SEP	228	253	270	119	1 287	312	227
	APR-JUL	207	230	1 245	119	1 260	283	206
	APR-JUN	169	189	202	120	215	235	169
√ENATCHEE at Plain	APR-SEP	1082	1188	1260	106	1332	1438	1190
	APR~JUL	1010	1088	1140	106	1192	1270	1072
	APR-JUN	821	877	915	106	953	1009	864
WENATCHEE R. at Peshastin	APR-SEP	1204	1541	1770	108	1999	2336	1636
	APR-JUL	1089	1393	1600	108	1807	2111	1485
	APR-JUN	890	1134	1 1300	108	1466	1710	1204
STEMILT nr Wenatchee (miners in)	MAY-SEP	84	112	131	95	150	178	138
CICLE CREEK nr Leavenworth	APR-SEP	235	309	360	97	411	485	370
	APR-JUL	215	284	I 330	97	376	445	340
	APR-JUN	169	223	260	96	1 297	351	270
COLUMBIA R. bl Rock Island Dam (2)	APR-SEP	69476	77588	83100	118	I 88612	96724	70485
	APR-JUL	58788	65642	I 70300	118	74958	81812	59736
	APR-JUN	46500	51859	55500	118	59141	64500	47007
WENATCHEE - CH Reservoir Storage (100	0 AF) - End	of Januar		1	Watershed S	HEE - CHELAN R nowpack Analys	is - Februa	ry 1, 1996
	Usable		le Storage *			Numbe		Year as % of
Reservoir	Capacity	This	Last	Wat	ershed	of		
		Year		vg		Data Si		Yr Average
CHELAN TAKE	676.1	572.2			lan Lake Basi		86	114
				l Pot	ist River	2	75	118

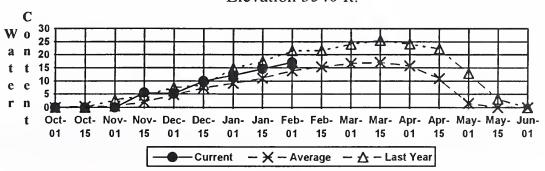
Reservoir	Usable Capacity 	*** Usa This Year	ble Stora Last Year	ge *** Avg	Watershed	Number of Data Sites	This Yea	ar as % of Average
CHELAN LAKE	676.1	572.2	266.2	450.6	Chelan Lake Basin	5	86	114
				į	Entiat River	2	75	118
				i	Wenatchee River	12	65	90
				į	Squilchuck Creek	0	0	0
					Stemilt Creek	2	65	89
					Colockum Creek	1	45	103

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

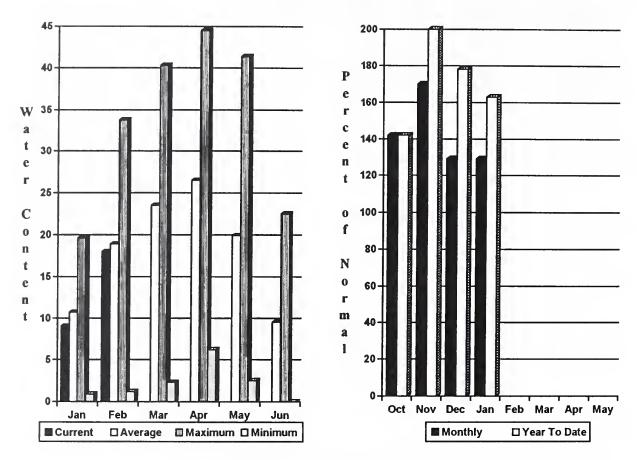
The average is computed for the 1961-1990 base period.

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

Pope Ridge SNOTEL Elevation 3540 ft.



Precipitation* (% of normal)



*Based on selected stations

February 1 reservoir storage for the five major reservoirs was 816,400 acre feet, 127% of average. February 1 summer streamflow forecasts are for near to above normal in the Yakima Basin. Forecasts for the Yakima River at Cle Elum are for 109% of normal; Naches River, 112%; the Yakima River at Parker, 112%; Ahtanum Creek, 107%; and the Tieton The Klickitat River near Glenwood is forecast at 107% of River, 113%. normal flows this summer. January streamflows within the basin were; the Yakima River at Parker 196% of normal; the Yakima near Cle Elum, 167%; and the Naches River at 243%. February 1 snowpack was 91% based upon 21 snow courses and SNOTEL readings within the Yakima Basin. Precipitation was 129% of normal for January and 163% for the water year-to-date. Temperatures were 1.3 degrees above average for Volume forecasts for the Yakima Basin are for natural flow. January. As such, they may differ from the U.S. Bureau of Reclamation's forecast for the total water supply available which includes irrigation return flow.

YAKIMA RIVER BASIN

Streamflow Forecasts - February 1, 1996

		<<===== 	= Drier ===	===	Future Co	nditions =	www.wetter	====>>	
Forecast Point	Forecast Period		70% (1000AF)	1 50	0% (Most	Probable) (% AVG.)		10% (1000AF)	30-Yr Avg.
KEECHELUS LAKE 1NFLOW	APR-JUL	111	125	1	135	109	145	159	124
	APR-SEP	118	133	!	144		155	170	135
	APR-JUN	99	110	1	118		126 	137	109
KACHESS LAKE 1NFLOW	APR-JUL	102	114	i	122	110	130	142	111
	APR-SEP	107	120	1	129		1 1 1 3 8	151	118
	APR-JUN	95	105	1	111	112	1 117	127	99
CLE ELUM LAKE INFLOW	APR-JUL	402	437	i	460		483	518	409
	APR-SEP	421	462	1	490	109		559	448
•	APR-JUN	338	366	1	386	112	406	434	345
YAKIMA at Cle Elum	APR-JUN	694	757	i	800	111	843	906	721
	APR-JUL	801	875	1	925		975	1049	832
	APP-SEP	865	945	1	1000	109	1055	1135	915
BUMPING LAKE INFLOW	APR-SEP	124	139	i	150	110	161	176	136
	APR-JUL	113	127	1	136	110		159	124
	APR-JUN	92	105	1	114	110	123	136	104
AMERICAN RIVER near Nile	APR-SEP	95	108	i	116	98	124	137	118
	APR-JUL	88	99	1	107	98		126	109
	APR-JUN	72	83	1	90	98	97	108	92
RIMROCK LAKE 1NFLOW	APR-SEP	228	253	i	270	113	287	312	238
	APR-JUL	194	214	1	227	114		260	200
	APR-JUN	157	172	1	183	113	194	209	162
NACHES near Naches	APR-SEP	801	878	i	930	112		1059	832
	APR-JUL	738	805	1	850		895	962	755
	APR-JUN	638	696	1	735	113	774	832	651
AHTANUM CREEK nr Tampico (2)	APR-SEP	30	42	i	4 9	107		68	46
	APR-JUL	28	39	i	45	108		63	42
	APR-JUN	24	33	1	39	108	45 	54	36
YAKIMA near Parker	APR-SEP	1918	2110	i	2240	112		2562	1994
	APR-JUL	1746	1918	1	2035	113	2152	2324	1805
	APR-JUN	1545	1691		1790	112	1889	2035	1597
KLICKITAT near Glenwood	APR-JUN	96	109	i	117	106	125	138	110
	APR-SEP	120	138	1	150	107	162	180	140
				 ======					
YAKIMA Reservoir Storage (1	RIVER BASIN	of January	,	1			AKIMA RIVER BA Nowpack Analysi		rv 1. 1996
Reservoir Storage (1				=====					
Reservoir	Usable Capacity		e Storage ' Last			shod	Number of		Year as % of
	1	Year	Year /	l Avg l			Data Sit	es Last	Yr Average
KEECHELUS	157.8	119.9		==== 96.0		River	20	59	91
				i					
KACHESS	239.0	213.8	70.9	70.0 	Ahtanu	ım Creek	3	47	100
CLE ELUM	436.9	326.9	103.1 25	51.0 İ					
				- 1					

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

78.7 115.0 |

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

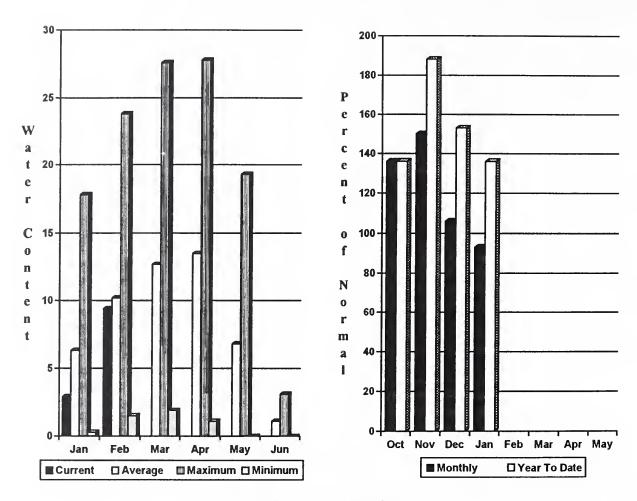
BUMPING LAKE RIMROCK

33.7 14.3 15.4 9.0 |

198.0 141.5

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

Precipitation* (% of normal)



*Based on selected stations

January precipitation was 93% of average, bringing the year-to-date precipitation to 136% of normal. February 1 snowpack was at 92% of normal up from 46% a month ago. The forecast is for 114% of average streamflow in the Walla Walla River for the coming summer, for the Grande Ronde at Troy, 117%, and 104% for Mill Creek. January streamflow was 186% of normal for the N.F. Walla Walla River, 137% for the Snake River, and 241% for the Grande Ronde River near Troy. The Touchet SNOTEL site had 18.8 inches of snow-water-equivalent, a 13 inch increase over the last month, the normal February 1 reading for this site is 20.8 inches.

WALLA WALLA RIVER BASIN

Streamflow Forecasts - February 1, 1996

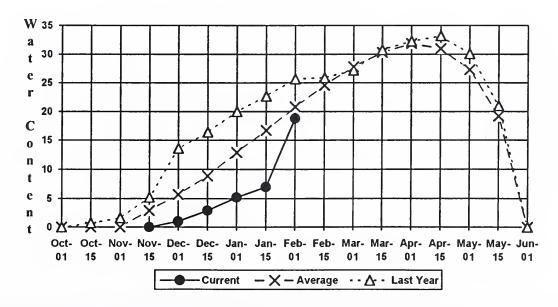
Forecast Point	Forecast	i	Drier =====	 Future C Chance Of 				i	
	Period	90% (1000AF)	70% (1000AF)	50% (Most	Probable) (% AVG.)	1	30% 000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
GRANDE RONDE at Troy (1)	MAR-JUL	1152	1542	1720	117		1898	2288	1471
	APR-SEP	1016	1369	1530	117	į	1691	2044	1312
NAKE blw Lower Granite Dam (1,2)	APR-JUL	13985	20391	23300	108	1 2	6209	32615	21650
	APR-SEP	15831	23030	26300	108	1 2	9570	36769	24360
ILL CREEK at Walla Walla	APR-SEP	9.6	14.4	17.7	104	1	21	26	17.1
	APR-JUL	9.0	13.8	17.1	101	1	20	25	16.9
	APR-JUN	9.0	13.8	17.0	102	1	20	25	16.7
F WALLA WALLA nr Milton Freewater	APR-JUL	51	57	62	116	+	66	72	53
	APR-SEP	64	71	76	115	1	80	87	66
DLUMBIA R. at The Dalles (2)	APR-SEP	88730	101990 I	111000	112	1 12	0010	133270	98982
	APR-JUL	76883	88206	95900	113	j 10	3594	114917	84760
	APR-JUN	62514	71675	77900	113	1 8	4125	93286	68925
WALLA WALLA	A RIVER BAS	IN		1	W	ALLA WAL	LA RIVE	R BASIN	
Reservoir Storage (1000	AF) - End	of January	•	1	Watershed	Snowpack	Analys	is - Februai	y 1, 1996

	WALLA WALLA Reservoir Storage (1000	A RIVER BASI AF) - End			<u> </u>	WALLA WA Watershed Snowpac	LLA RIVER BAS k Analysis -		, 1996
Reservoir			e Storage Last Year	*** Avg		Watershed	Number of Data Sites	This Year	
	(CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC		 		= === 	Mill Creek	2	69	92

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

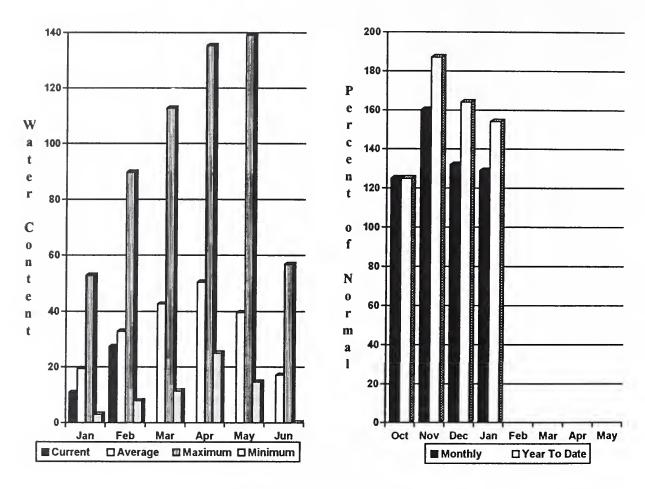
The average is computed for the 1961-1990 base period.

Touchet #2 SNOTEL Elevation 5530 ft.



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

Precipitation* (% of normal)



*Based on selected stations

The forecast for summer runoff in the Lewis River Basin is 105% of normal. The Cowlitz River at Castle Rock is forecast for 105% of normal runoff. January streamflow for the Cowlitz River was 148% of average, and 120% for the Lewis River. January precipitation was 129% of normal, 154% of average for the water-year. February 1 snow cover for the Cowlitz River was 95% and the Lewis River was 71% of average. The Paradise Park SNOTEL recorded the most water content for the basin with 40.2 inches of water. Normal February 1 water content is 38.5 inches.

COWLITZ - LEWIS RIVER BASINS

Streamflow Forecasts - February 1, 1996

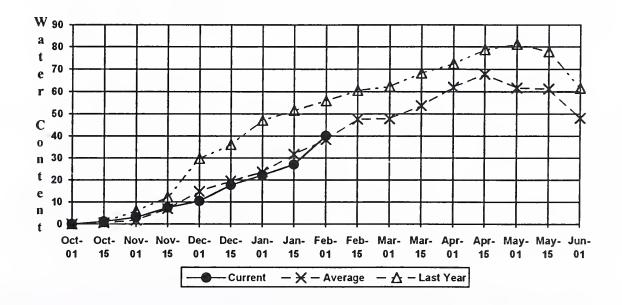
***************************************		<<=====	Drier ====	== Future C	onditions =	Wetter	====>>	
Forecast Point	Forecast Period	 ======= 90% (1000AF)	70% (1000AF)		Exceeding * Probable) (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
LEWIS RIVER at Ariel (2)	APR-SEP APR-JUL APR-JUN	803 702 628	1075 939 837	1260 1100 980	105 105 105	1445 1261 1123	1717 1498 1332	1204 1051 933
COWLITZ R. bl Mayfield Dam (2)	APR-SEP APR-JUL APR-JUN	887 1014 870	1645 1446 1239	1 1980 1 1740 1 1490	101 101 101	2315 2034 1741	3073 2466 2110	1970 1731 1477
COWLITZ R. at Castle Rock (2)	APR-SEP APR-JUL	1253 1682	2454 2139	 2810 2450	105 105	 3166 2761	4347 3218	2667 2325
, KL1CK1TAT near Glenwood	APR-JUN APR-JUN APR-SEP	1430 96 120	1823 109 138	2090 	105 106 107	2357 125 162	2750 138 180	1995 110 140

COWLITZ - LEWIS RIVER BASINS Reservoir Storage (1000 AF) - End of January						1		EWIS RIVER BA	BAS1NS - February 1, 1996		
Reservoir				Storage Last Year		 	Watershed	Number of Data Sites	This Year Last Yr		
						= = : 	Cowlitz River	7	68	95	
						i	Lewis River	4	56	71	

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

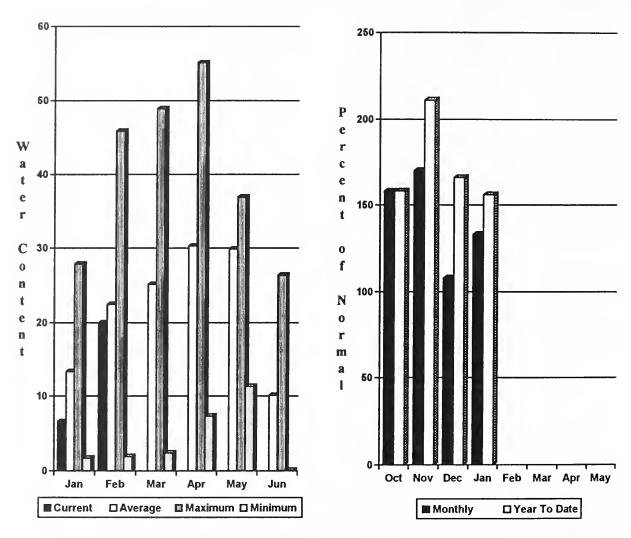
The average is computed for the 1961-1990 base period.

Paridise SNOTEL Elevation 5120 ft.



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

Precipitation* (% of normal)



*Based on selected stations

Summer runoff is forecast to be 99% of normal for the Green River, and 92% for the Cedar River near Cedar Falls; 87% for the Rex River, 95% for the South Fork of the Tolt River, and 94% for the Cedar River at Cedar Falls. February 1 snowpack was 100% of normal in the White River Basin and 77% in the Green River Basin. Water content on February 1 at the Morse Lake SNOTEL, at an elevation of 5,400 feet, was 31.1 inches. This site has a February 1 average of 29.6 inches. January precipitation was 133% of normal, bringing the water year-to-date to 156% of average.

WHITE - GREEN - CEDAR RIVER BASINS

Streamflow Forecasts - February 1, 1996

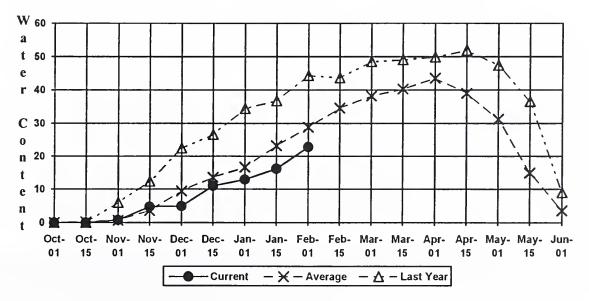
		<<=====	Drier ====	== Future Co	onditions ===	===== Wetter	====>>	
Forecast Point	Forecast	=======		- Chance Of E	Exceeding * =:	********		
	Period	90%	70%	50% (Most	Probable)	30%	10%	30-Yr Avg
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	(1000AF
REEN RIVER below Howard Hanson Dam		196	231	255	99	279	314	257
	APR-SEP	221	257	281	99 I	305	341	285
	APR-JUN	176	209	232	99	255	288	234
EDAR RIVER near Cedar Falls	APR-JUL	51	63	71	92	78	90	77
	APR-SEP	58	70	78	92	87	99	85
	APR-JUN	47	57	63	93	70	80	68
EX RIVER near Cedar Falls	APR-JUL	15.8	20	1 24	87 I	27	31	27
an made dodae talle	APR-SEP	18.8	23	26	87 I	29	33	30
	APR-JUN	15.5	19.3	22	87	24	28	25
EDAR RIVER at Cedar Falls	APR-JUL	48	65	l 1 77	94	89	106	82
abilit NIVER de CoddI Idilib	APR-SEP	50	67	78	94	89	106	83
	APR-JUN	49	65	75	94	86	101	80
OUTH FORK TOLT near Index	APR-JUL	11.1	13.1	14.4	95 I	15.7	17.7	15.2
The same index and the same in	APR-SEP	13.4	15.5	16.9	95 i	18.3	20	17.8
	APR-JUN	9.5	11.4	12.6	96	13.8	15.7	13.1
**	***======				 			
WHITE - GREEN	RIVER BAS	INS		I	WHITE	- GREEN RIVÉ	R BASINS	
Reservoir Storage (1000	AF) - End	of January		1	Watershed Sno	wpack Analys	is - Februa	rv 1, 1996

	Reservoir Storage (1000 AF) - End of January					Watershed Snowpack Analysis - February 1, 1996					
					***********			========			
Reservoir	Usable ! Capacity!		able Storage Last		Watershed	Number of		r as % of			
	1	Year	Year	Avg I		Data Sites	Last Yr	Average			
******************	******										
				!	White River	3	59	100			
				, I	Green River	6	70	78			
				į	Cedar River	0	0	0			

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

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

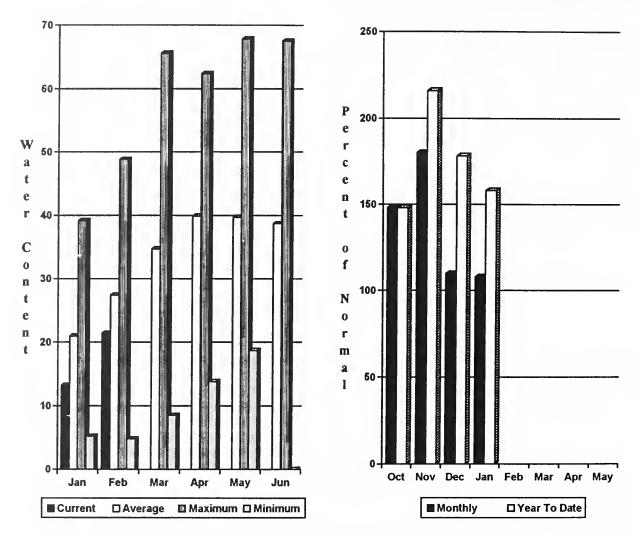
Stampede Pass SNOTEL Elevation 3860 ft.



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

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

Precipitation* (% of normal)



*Based on selected stations

Forecast for the Skagit River streamflow is for 95% of normal for the spring and summer periods. January streamflow in the Skagit River was 143% of average. Other forecast points included the Baker River at 91% and Thunder Creek at 96%. Basin-wide precipitation for January was 108% of average, bringing water-year-to-date to 158% of normal. February 1 snow cover in the Skagit River Basin was 90%, the Baker River Basin was, 66% and the Snohomish River Basin was 77% of average. Rainy Pass SNOTEL, at 4,780 feet, had 36.5 inches of water content. Normal February 1 water content is 24.5 inches. February 1 reservoir storage showed Ross Lake at 115% normal and 84% of capacity.

NORTH PUGET SOUND RIVER BASINS

Streamflow Forecasts - February 1, 1996

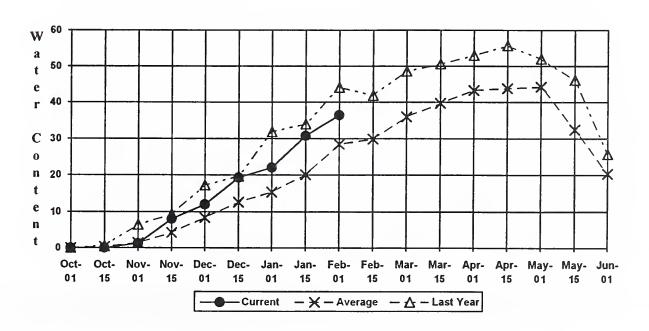
		<<=====	Drier ====	== Future C	onditions =	===== Wetter	====>> [
Forecast Point	Forecast							
	Period	90% (1000AF)	70% (1000AF)	50% (Most (1000AF)	Probable) (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
THUNDER CREEK near Newhalem	APR-JUL	188	205	216	94	227	244	230
	APR-SEP	285	303	315	96	l 327	345	328
	APR-JUN	112	129	140	94	151	168	149
SKAGIT RIVER at Newhalem (2)	APR-SEP	1586	1880	2080	95	2280	2574	2185
	APR-JUL	1327	1573	I 1740	95	l 1907	2153	1830
	APR-JUN	1026	1213	1 1340	95	1467 	1654	1410
BAKER RIVER near Concrete	APR-JUL	645	719	770	92	821	895	836
	APR-SEP	820	911	973	91	1035	1126	1064
	APR-JUN	472	536	J 579	95	622	686	611
				1		1		

	PUGET SOUND RIVER BASINS age (1000 AF) - End of Januar	y I	NORTH PUGET SOUND RIVER BASINS Watershed Snowpack Analysis - February 1, 1996					
Reservoir	Usable *** Usab Capacity This Year	le Storage *** Last Year Avg	Watershed	Number of Data Sites	This Yea: Last Yr			
ROSS	NO REPOR	T [Snohomish River	4	53	77		
DIABLO RESERVOIR	NO REPOR	T !	Skagit River	13	75	90		
GORGE RESERVOIR	NO REPOR	T !	Baker River	9	60	66		

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

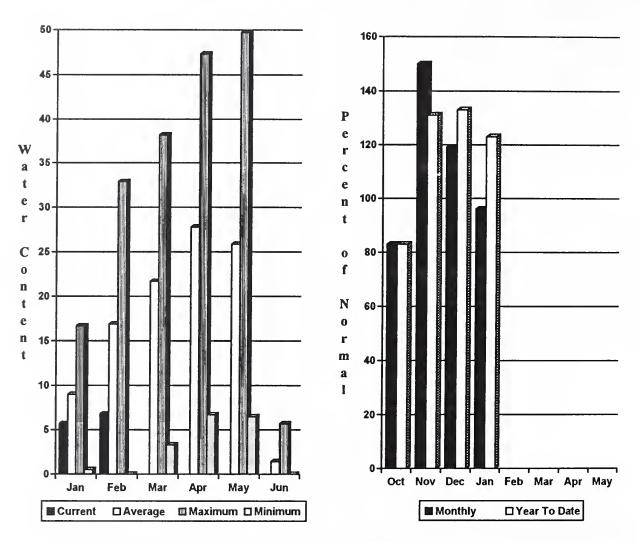
The average is computed for the 1961-1990 base period.

Rainy Pass SNOTEL Elevation 4780 ft.



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

Precipitation* (% of normal)



*Based on selected stations

February forecasts of runoff for streamflow in the Dungeness River Basin is 94% of average, and the Elwha River is forecasted for 88% of average. The Big Quilcene can expect near normal runoff this summer also. January precipitation was 96% of average. Precipitation has accumulated at 123% of normal for the water year. January precipitation at Quillayute was 13.9 inches, which is slightly below normal at 95% of average. Average February 1 snow cover in the Olympic Basin was much below average at 40%. The Mount Crag SNOTEL near Quilcene had 10.3 inches of snow-water-equivalent on February 1, normal for this site is 16.9 inches.

OLYMPIC PENINSULA RIVER BASINS

Streamflow Forecasts - February 1, 1996

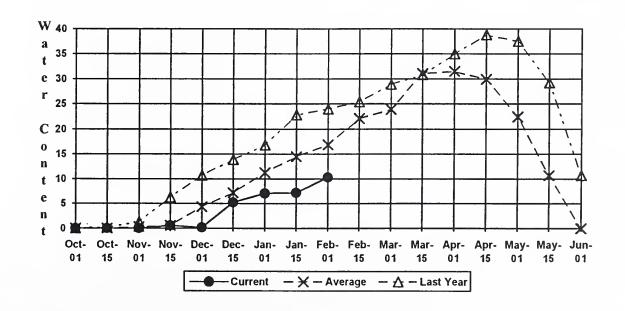
*************		**********				*******	-===			
		<<=====	Drier ====		Future C	onditions	====	=== Wetter	====>>	
									1	
Forecast Point	Forecast			== (Chance Of	Exceeding '	-			
	Period	90%	70%	1	50% (Most	Probable)	- 1	30%	10%	30-Yr Avg.
		(1000AF)	(1000AF)	1	(1000AF)	(% AVG.)	1	(1000AF)	(1000AF)	(1000AF)
				-	******		= ===			
DUNGENESS RIVER nr Sequim	APR-SEP	118	137	1	150	94	1	163	182	160
	APR-JUL	97	113	1	123	94	-1	133	149	131
	APR-JUN	73	84	1	92	94	1	100	111	98
				1			1			
ELWHA RIVER nr Port Angeles	APR-SEP	330	396	i.	440	88	1	484	550	502
•	APR-JUL	280	334	i.	370	89	1	406	460	417
				1			1			
****************					****					

	OLYMPIC PENINSULA RIVER BA Reservoir Storage (1000 AF) - End	1		PIC PENINSULA RIVER BASINS Snowpack Analysis - February 1, 1996			
Reservoir	Usable (Capacity)	Storage Last Year	*** 	Watershed	Number of Data Sites	This Year	r as % of Average
			[Elwha River	1	25	22
				Morse Creek	1	38	43
				Dungeness River	1	40	33
			1	Quilcene River	1,	43	61
			i	Wynoochee River	0	0	0

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

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

Mount Crag SNOTEL Elevation 4050 ft.



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

FOR ADDITIONAL INFORMATION

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Gregory Schlenz, District Conservationist Natural Resources Conservation Service Dayton Field Office (509) 382-4773

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Cowlitz - Lewis River Basins

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White - Green - Cedar River Basins

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Paul W. Johnson

Chief

Natural Resources Conservation Service

U.S. Department of Agriculture

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Lynn A. Brown

State Conservationist

Natural Resources Conservation Service

Spokane, Washington

The Following Organizations Cooperate With the Natural Resources Conservation Service in Snow Survey Work*:

Canada

Ministry of the Environment

Investigations Branch, Victoria, British Columbia

State

Washington State Department of Ecology

Washington State Department of Natural Resources

Federal

Department of the Army Corps of Engineers

U.S. Department of Agriculture

Forest Service

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

U.S. Department of Interior

Bonneville Power Administration

Bureau of Reclamation Geological Survey National Park Service Bureau of Indian Affairs

Local

City of Tacoma City of Seattle

Chelan County P.U.D.

Pacific Power and Light Company

Puget Sound Power and Light Company
Washington Water Power Company

Snohomish County P.U.D. Colville Confederated Tribes

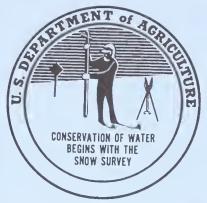
Spokane County

Yakama Indian Nation

Private

Okanogan Irrigation District

Wenatchee Heights Irrigation District Newman Lake Homeowners Association



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Natural Resources Conservation Service Spokane, WA

