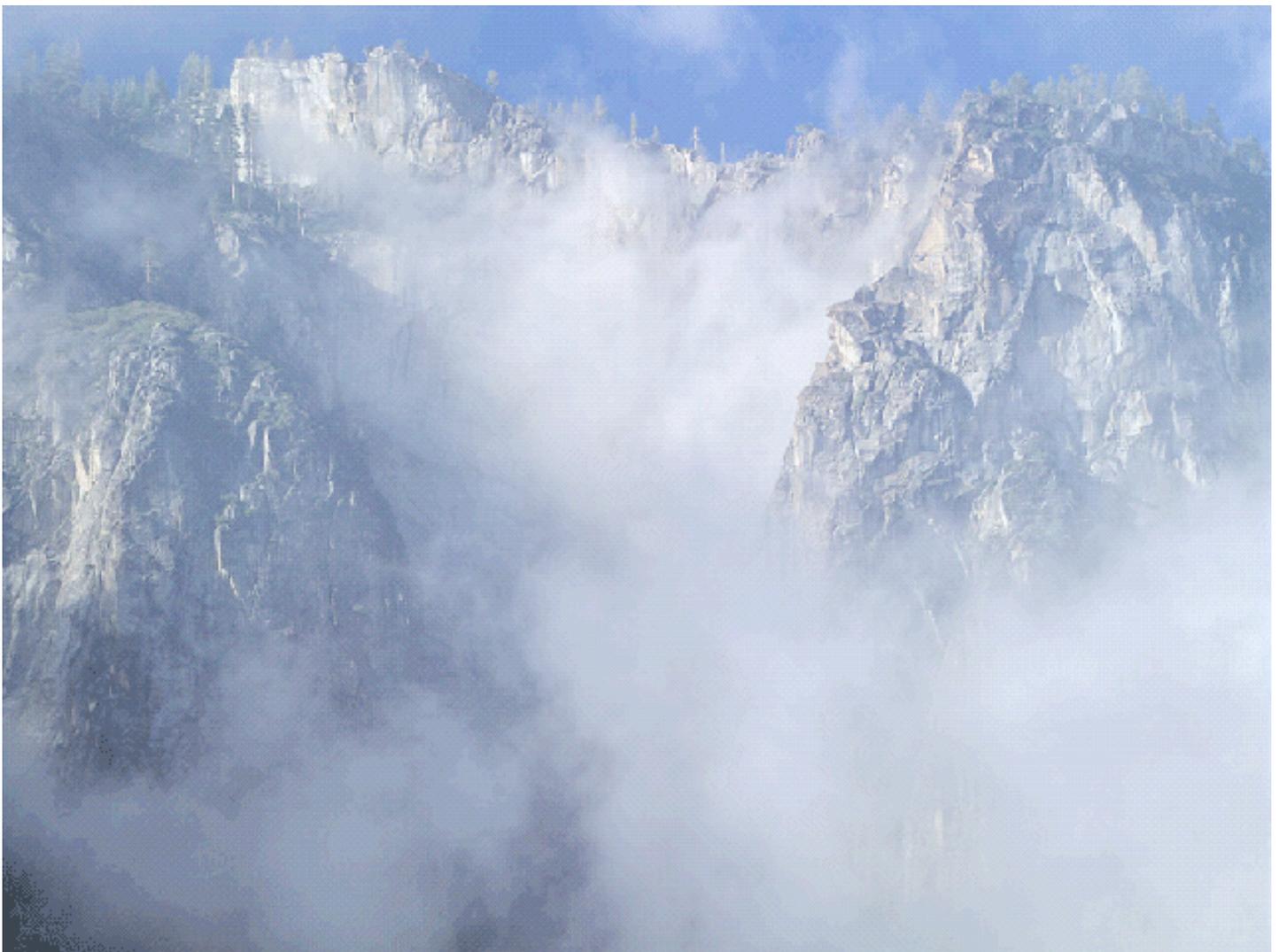




United States Department of Agriculture

Washington Water Supply Outlook Report April 1, 2010



Water Supply 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
Water Supply Specialist
Natural Resources Conservation Service
2021 E. College Way, Suite 214
Mt. Vernon, WA 98273-2873
(360) 428-7684

or

Ron Nichols
Public Affairs Specialist
Natural Resources Conservation Service
W 316 Boone Ave., Suite 450
Spokane, WA 99201
(509) 323-2912

How forecasts are made

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

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

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

"The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer."

Washington Water Supply Outlook

May 2010

General Outlook

For the most part near normal temperatures and above average precipitation are helping bring conditions as close to normal as we've seen all year. The welcome rain and mountain snow have increased soil moisture conditions and built snowpack which has brought a sigh of relief to many across the state. At the very least, the driest areas in the state have not deteriorated from a month ago. Spring and summer runoff projections increased by up to 10% on the west side and only a few percentage points on the east side. Weather forecast models are predicting that the rest of this month will be warm and dry. The summer is also shaping up for a warm and dry season. To keep it in perspective, even if we receive normal precipitation through the summer months it only counts for about 13% of our total annual rainfall.

Snowpack

The May 1 statewide SNOTEL readings were 89% of average, a 13% increase from a month ago. By the time of this release we are at 98%. The Similkameen River (mostly Canadian data) reported the lowest readings at 13% of average. Readings from the Olympic Peninsula reported the highest at 119% of average. Westside averages from SNOTEL, and May 1 snow surveys, included the North Puget Sound river basins with 78% of average, the Central Puget Sound river basins with 72%, and the Lewis-Cowlitz basins with 102% of average. Snowpack along the east slopes of the Cascade Mountains included the Yakima area with 84% and the Wenatchee area with 95%. Snowpack in the Spokane River Basin was at 54% and the Walla Walla River Basin had 64% of average. Maximum snow cover in Washington was at Easy Pass SNOTEL near Baker Lake, with water content of 94.2 inches.

BASIN	PERCENT OF LAST YEAR	PERCENT OF AVERAGE
Spokane	58	54
Newman Lake	44	57
Pend Oreille	64	64
Okanogan	93	73
Methow	110	77
Conconully Lake	0	67
Wenatchee	89	74
Chelan	104	76
Upper Yakima	77	72
Lower Yakima	105	97
Ahtanum Creek	99	99
Walla Walla	43	64
Lower Snake	67	72
Cowlitz	83	95
Lewis	89	109
White	118	102
Green	43	52
Puyallup	88	93
Cedar	31	76
Snoqualmie	50	73
Skykomish	60	73
Skagit	99	77
Baker	N/A	N/A
Nooksack	83	79
Olympic Peninsula	170	119

Precipitation

During the month of April, the National Weather Service and Natural Resources Conservation Service climate stations reported much above average precipitation throughout the state. The highest percent of average in the state was at Dungeness SNOTEL which reported 272% of average for a total of 7.9 inches. The average for Dungeness is 2.9 inches for April. The wettest spot in the state was reported at Sheep Canyon SNOTEL, near Mt. St. Helens, with an April accumulation of 13.9 inches. Sheep would normally see about 7 inches in April

RIVER BASIN	APRIL PERCENT OF AVERAGE	WATER YEAR PERCENT OF AVERAGE
Spokane	140.....	74
Pend Oreille	128.....	82
Upper Columbia	116.....	89
Central Columbia	162.....	85
Upper Yakima	148.....	98
Lower Yakima	177.....	90
Walla Walla	125.....	79
Lower Snake	134.....	78
Lower Columbia	128	90
South Puget Sound	135.....	83
Central Puget Sound	131.....	86
North Puget Sound	108.....	95
Olympic Peninsula	185.....	135

Reservoir

Seasonal reservoir levels in Washington vary greatly due to specific watershed management practices required in preparation for irrigation season, fisheries management, power generation, municipal demands and flood control. Reservoir storage in the Yakima Basin was 538,000-acre feet, 87% of average for the Upper Reaches and 147,000-acre feet or 87% of average for Rimrock and Bumping Lakes. Storage at the Okanogan reservoirs was 80% of average for May 1. The power generation reservoirs included the following: Coeur d'Alene Lake, 182,000 acre feet, 73% of average and 76% of capacity; Chelan Lake, 391,000-acre feet, 147% of average and 58% of capacity; and the Skagit River reservoirs at 119% of average and 63% of capacity. Recent climate impacts and management procedures may affect these numbers on a daily or weekly basis.

BASIN	PERCENT OF CAPACITY	CURRENT STORAGE AS PERCENT OF AVERAGE
Spokane	76	73
Pend Oreille	56	92
Upper Columbia	65	80
Central Columbia	58	147
Upper Yakima	64	87
Lower Yakima	63	87
Lower Snake	76	102
Lower Columbia	N/A	N/A
North Puget Sound	63	119

For more information contact your local Natural Resources Conservation Service office.

Streamflow

Forecasts vary from 112% of average for the Elwha River to 47% of average for Spokane River. May-September forecasts for some Western Washington streams include the Cedar River near Cedar Falls, 64%; White River, 85%; and Skagit River, 78%. Some Eastern Washington streams include the Yakima River near Parker, 70%; Wenatchee River at Plain, 78%; and Spokane River near Post Falls, 47%. Volumetric forecasts are developed using current, historic and average snowpack, precipitation and streamflow data collected and coordinated by organizations cooperating with NRCS.

April total streamflows were mostly near to below average except in 3 basins where heavy rainfall accounted for above average runoff. The Dungeness River near Sequim had the highest reported flows with 132% of average. The Spokane River with 50% of average was the lowest in the state. Other streamflows were the following percentage of average as reported by the River Forecast Center: the Cowlitz at Castle Rock, 91%; the Kettle at Laurier, 79%; the Columbia below Rock Island Dam, 71%; and the Cle Elum near Roslyn, 79%.

BASIN	PERCENT OF AVERAGE (50 PERCENT CHANCE OF EXCEEDENCE)
Spokane	47-84
Pend Oreille	60-75
Upper Columbia	59-82
Central Columbia	60-78
Upper Yakima	51-69
Lower Yakima	70-88
Walla Walla	71-75
Lower Snake	57-77
Lower Columbia	76-86
South Puget Sound	50-85
Central Puget Sound	48-64
North Puget Sound	73-89
Olympic Peninsula	95-97

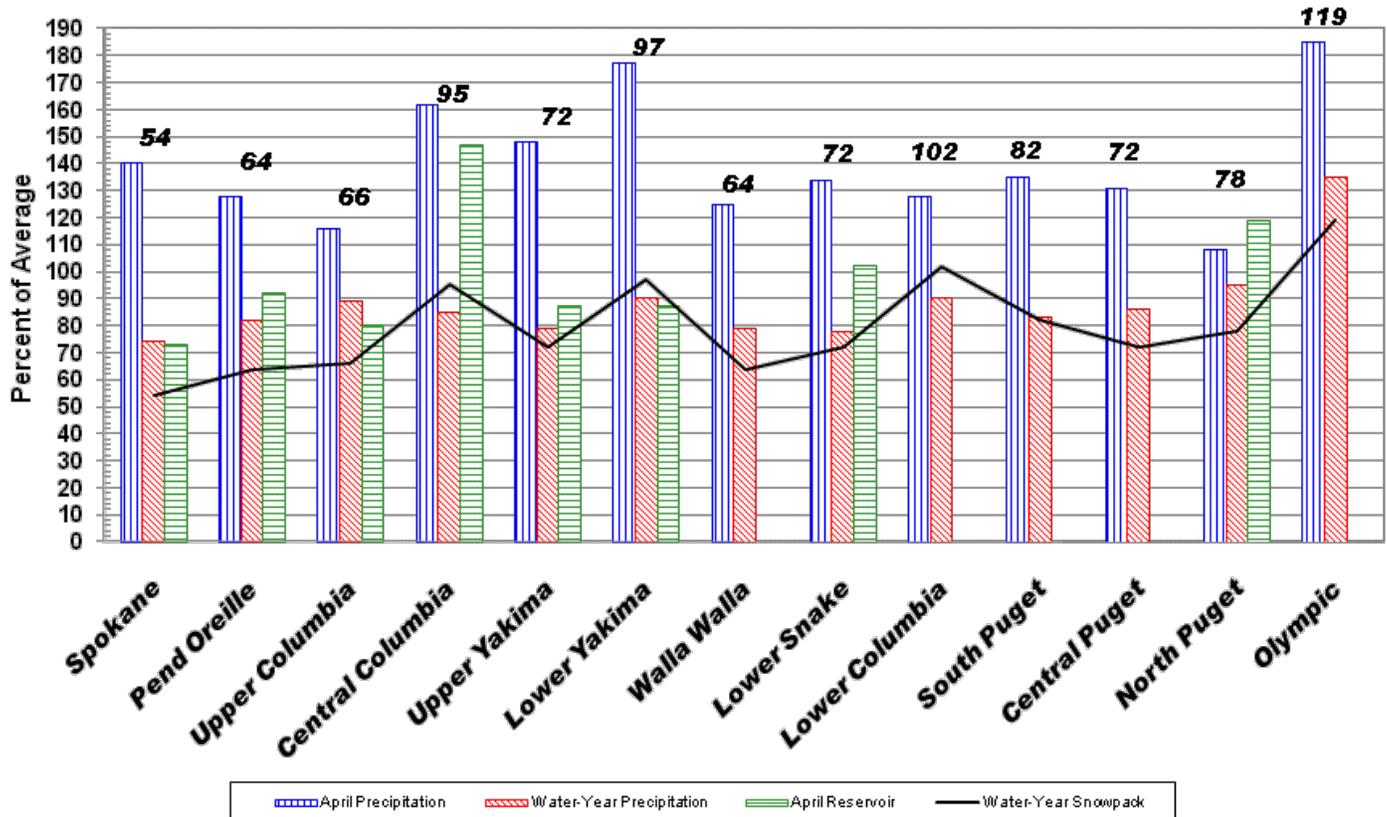
STREAM	PERCENT OF AVERAGE APRIL STREAMFLOWS
Pend Oreille Below Box Canyon	65
Kettle at Laurier	79
Columbia at Birchbank	82
Spokane at Long Lake	50
Similkameen at Nighthawk	96
Okanogan at Tonasket	73
Methow at Pateros	106
Chelan at Chelan	91
Wenatchee at Pashastin	77
Yakima at Cle Elum	73
Yakima near Parker	76
Naches near Naches	94
Grande Ronde at Troy	59
Snake below Lower Granite Dam	60
SF Walla Walla near Milton Freewater	113
Columbia River at The Dalles	69
Lewis at Ariel	98
Cowlitz below Mayfield Dam	84
Skagit at Concrete	77
Dungeness near Sequim	132

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1971-00
SWIFT CREEK SNOTEL	4440	5/01/10	154	78.7	58.5	59.7
TEN MILE LOWER	6600	4/29/10	8	1.2	7.1	4.5
TEN MILE MIDDLE	6800	4/29/10	26	7.5	11.6	11.2
THUNDER BASIN SNOTEL	4320	5/01/10	48	23.3	18.0	27.4
THUNDER BASIN	4200	4/30/10	41	12.7	17.9	21.2
THOMPSON CREEK	2500	4/30/10	0	.0	.0	--
TINKHAM CREEK SNOTEL	2990	5/01/10	28	12.3	28.1	20.0
TOUCHET SNOTEL	5530	5/01/10	39	17.5	35.2	26.2
TRINKUS LAKE	6100	5/01/10	---	35.1E	36.5	40.8
TROUGH #2 SNOTEL	5480	5/01/10	22	9.1	4.6	4.3
TROUT CREEK CAN.	5650	4/27/10	7	3.0	3.6	3.7
TRUMAN CREEK	4060	4/29/10	0	.0	.2	.1
TUNNEL AVENUE	2450	4/28/10	5	2.0	14.3	12.0
TV MOUNTAIN	6800	5/01/10	---	15.2E	18.6	17.1
TWELVMILE SNOTEL	5600	5/01/10	5	.9	12.0	8.8
TWIN CREEKS	3580	4/26/10	2	.7	1.0	1.7

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1971-00
TWIN LAKES SNOTEL	6400	5/01/10	67	22.8	39.9	38.5
UPPER HOLLAND LAKE	6200	5/01/10	---	28.1E	32.9	33.5
UPPER WHEELER SNOTEL	4330	5/01/10	17	6.6	10.7	6.3
VASEUX CREEK CAN.	4250	4/28/10	0	.0	.0	2.3
WARM SPRINGS SNOTEL	7800	5/01/10	72	21.6	31.7	23.7
WATERHOLE SNOTEL	5010	5/01/10	97	50.6	29.0	36.4
WEASEL DIVIDE	5450	4/30/10	64	23.2	26.6	32.7
WELLS CREEK SNOTEL	4030	5/01/10	70	29.3	23.6	26.9
WHITE PASS ES SNOTEL	4440	5/01/10	43	17.0	23.3	21.4
WHITE ROCKS MTN CAN.	7200	5/01/10	44	17.6	13.7	21.0



**May 1, 2010 -
Snowpack, Precipitation and Reservoir
Conditions at a Glance**
(Water Year = October 1, 2009 - Current Date)





Natural Resources Conservation Service

Washington State
Snow, Water and Climate Services

Program Contacts

Roylene Rides At The Door
State Conservationist
Spokane State Office
W. 316 Boone Ave., Suite 450
Spokane, WA 99201-2348
phone: 509-323-2961
fax: 509-323-2979
roylene.rides-at-the-door@wa.usda.gov

Jon Lea
DCO Supervisor
Oregon Data Collection Office
101 SW Main St, Suite 1300
Portland, OR 97204
Phone: 503-414-3267
Fax: 503-414-3277
jon.lea@or.usda.gov

Scott Pattee
Water Supply Specialist
Washington Snow Survey Office
2021 E. College Way, Suite 214
Mount Vernon, WA 98273-2873
phone: 360-428-7684
fax: 360-424-6172
scott.pattee@wa.usda.gov

Rashawn Tama
Forecast Hydrologist
National Water and Climate Center
101 SW Main St., Suite 1600
Portland, OR 97204-3224
phone: 503-414-3010
fax: 503-414-3101
rashawn.tama@por.usda.gov

Helpful Internet Addresses

NRCS Snow Survey and Climate Services Homepages

Washington:
<http://www.wa.nrcs.usda.gov/snow>

Oregon:
<http://www.or.nrcs.usda.gov/snow>

Idaho:
<http://www.id.nrcs.usda.gov/snow>

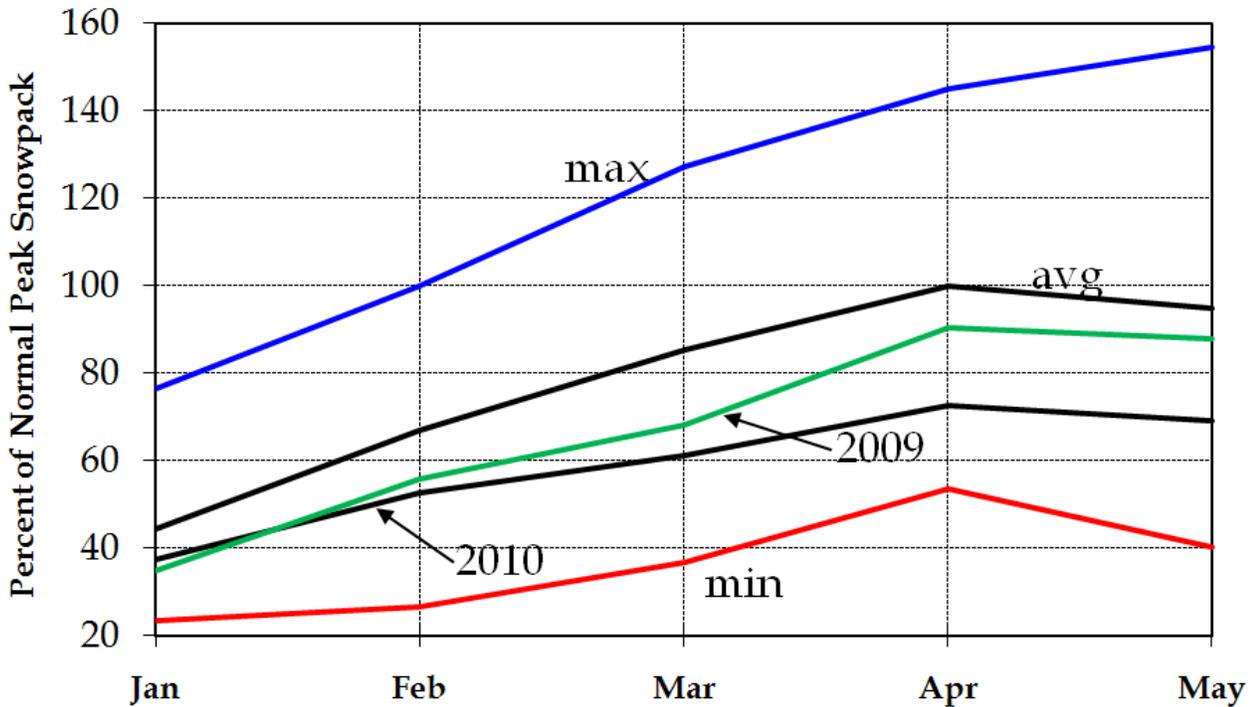
National Water and Climate Center (NWCC):
<http://www.wcc.nrcs.usda.gov>

USDA-NRCS Agency Homepages

Washington:
<http://www.wa.nrcs.usda.gov>

NRCS National:
<http://www.nrcs.usda.gov>

Columbia above The Dalles



May 1, 2010

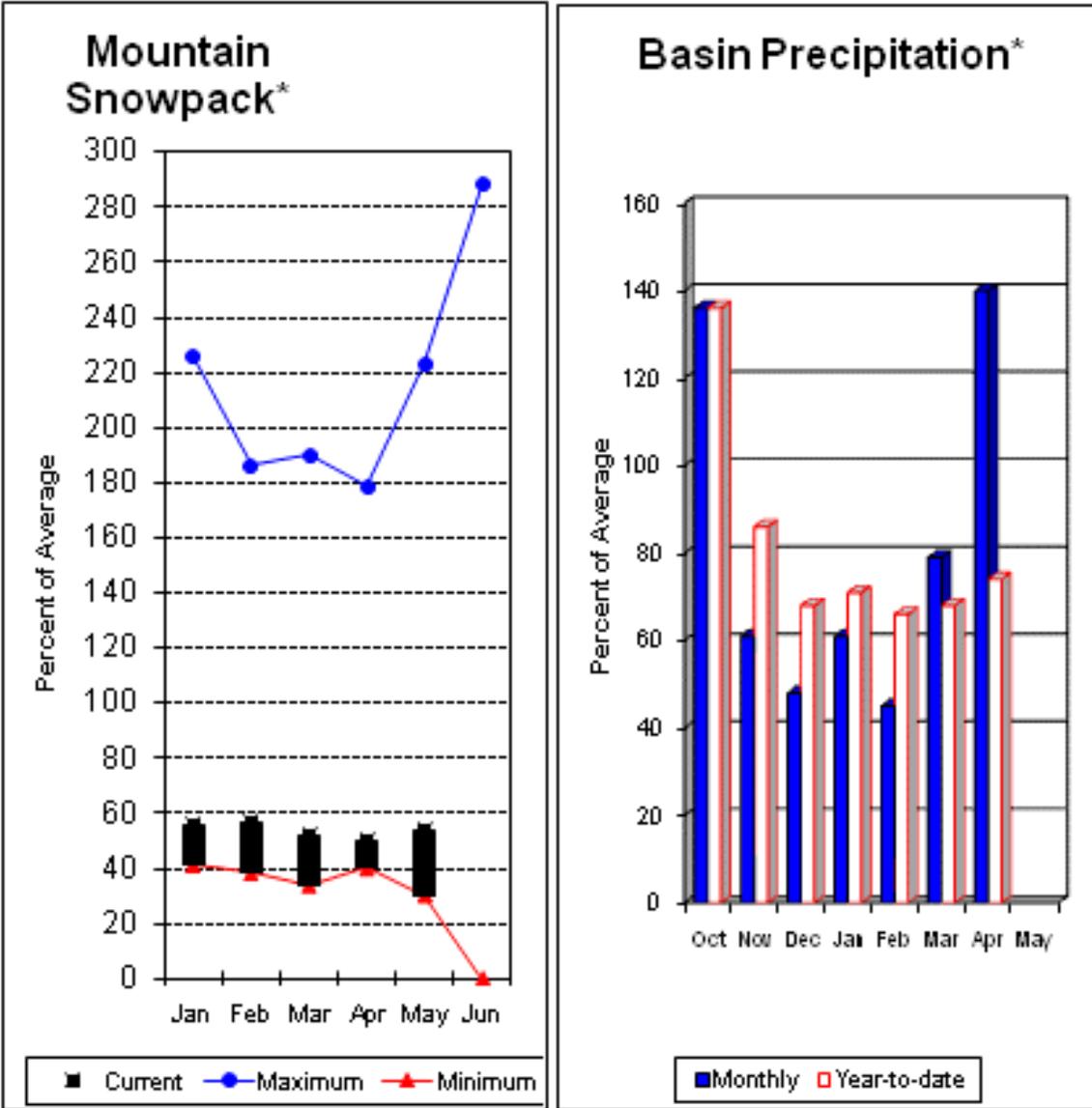
The Columbia Basin snowpack charts are produced, using only automated data. These data are telemetered via remote collection sites in Canada and the United States. The data are provisional, until they are officially released by the responsible data collection agency.

Percentage wise, the combined Columbia Basin snowpack hasn't changed from last month. The combined snowpack above The Dalles is currently at 73 percent... the same as last month and 20 percent lower than last year. The Deschutes (14%), Yakima (9%), and Kettle (6%) snowpacks showed substantial improvement over April 1 values. The snowpack over the remainder of the basin changed less than 5 percent (plus or minus) from last month. Even though the overall snowpack conditions stayed the same, above average precipitation was recorded throughout the Columbia. This moisture should help the soil moisture conditions and may lead to a more efficient spring and summer runoff.

The snowpack in the Columbia Basin above Castlegar is at 80 percent of average. This compares to 88 percent last year and 80 percent last month. Over the portion of the basin above Grand Coulee, the snowpack is now at 76 percent of average, compared to 91 percent last year and the same as last month. The Snake River snowpack above Ice Harbor is at 63 percent of average, compared to 99 percent last year and 62 percent last month. The Yakima Basin snowpack is the highest in the basin at 88 percent of average. By contrast, the Spokane Basin snowpack is the lowest at 55 percent.

For more information contact your local Natural Resources Conservation Service office.

Spokane River Basin



*Based on selected stations

The May 1 forecasts for summer runoff within the Spokane River Basin are 47% of average near Post Falls and 50% at Long Lake. The Chamokane River near Long Lake forecasted to have 84% of average flows for the May-August period. The forecast is based on a basin snowpack that is 54% of average and precipitation that is 74% of average for the water year. Precipitation for April was above normal at 140% of average. Streamflow on the Spokane River at Long Lake was 50% of average for April. May 1 storage in Coeur d'Alene Lake was 182,000acre feet, 73% of average and 76% of capacity. Snowpack at Quartz Peak SNOTEL site was 57% of average with 8.5 inches of water content. Average temperatures in the Spokane basin were 2 degrees above for April and 2 degrees above normal for the water year

Spokane River Basin

Streamflow Forecasts - May 1, 2010

Forecast Point	Forecast Period	<<----- Drier ----->>		Future Conditions		----- Wetter ----->>		30-Yr Avg. (1000AF)
		90%	70%	Chance Of Exceeding *		30%	10%	
		(1000AF)	(1000AF)	(1000AF)	(% AVG.)	(1000AF)	(1000AF)	
SPOKANE near Post Falls (2)	MAY-JUL	320	590	775	46	960	1230	1670
	MAY-SEP	330	625	825	47	1030	1320	1770
SPOKANE at Long Lake (2)	MAY-JUL	405	735	955	50	1180	1500	1910
	MAY-SEP	480	825	1060	50	1300	1640	2130
CHAMOKANE CREEK near Long Lake	MAY-AUG	4.0	6.8	8.6	84	10.4	13.2	10.2

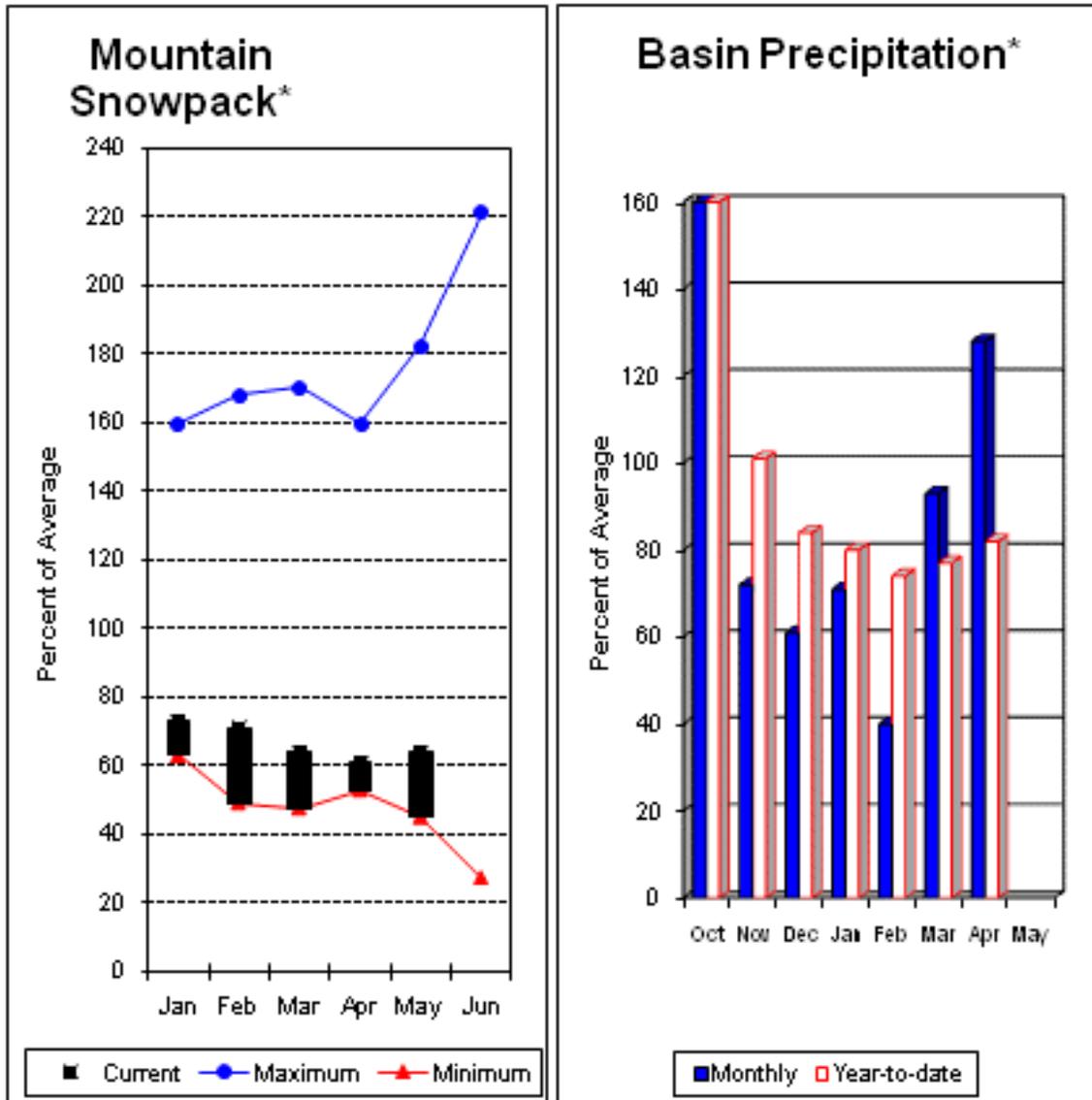
SPOKANE RIVER BASIN Reservoir Storage (1000 AF) - End of April					SPOKANE RIVER BASIN Watershed Snowpack Analysis - May 1, 2010			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
COEUR D'ALENE	238.5	182.3	245.5	249.7	SPOKANE RIVER	9	58	54
					NEWMAN LAKE	1	44	57

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

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

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

Pend Oreille River Basins



*Based on selected stations

The May – September average forecast for the Priest River near the town of Priest River is 75% and the Pen Orielle below Box Canyon is 61%. April streamflow was 65% of average on the Pend Oreille River and 82% on the Columbia Birchbank. May 1 snow cover was 64% of average in the Pend Oreille Basin River Basin. Bunchgrass Meadows SNOTEL site had 23.2 inches of snow water on the snow pillow. Normally Bunchgrass would have 28.6 inches on May 1. Precipitation during April was 128% of average, bringing the year-to-date precipitation to 82% of average. Reservoir storage in the basin, including Lake Pend Oreille and Priest Lake was 92% of normal. Average temperatures were 2 degrees above normal for April and 2 degrees above for the water year.

For more information contact your local Natural Resources Conservation Service office.

Pend Oreille River Basins

Streamflow Forecasts - May 1, 2010

Forecast Point	Forecast Period	<<==== Drier ===== Future Conditions ===== Wetter =====>>				30-Yr Avg. (1000AF)						
		90% (1000AF)		70% (1000AF)			Chance Of Exceeding * 50% (% AVG.)		30% (1000AF)		10% (1000AF)	
PEND OREILLE Lake Inflow (2)	MAY-JUL	4660	5650	6320	60	6990	7980	10600				
	MAY-SEP	5090	6240	7030	60	7820	8970	11800				
PRIEST near Priest River (1,2)	MAY-JUL	295	410	465	76	520	635	615				
	MAY-SEP	315	445	505	75	565	695	670				
PEND OREILLE bl Box Canyon (2)	MAY-JUL	4820	5820	6500	61	7180	8180	10700				
	MAY-SEP	5300	6450	7240	61	8030	9180	11900				

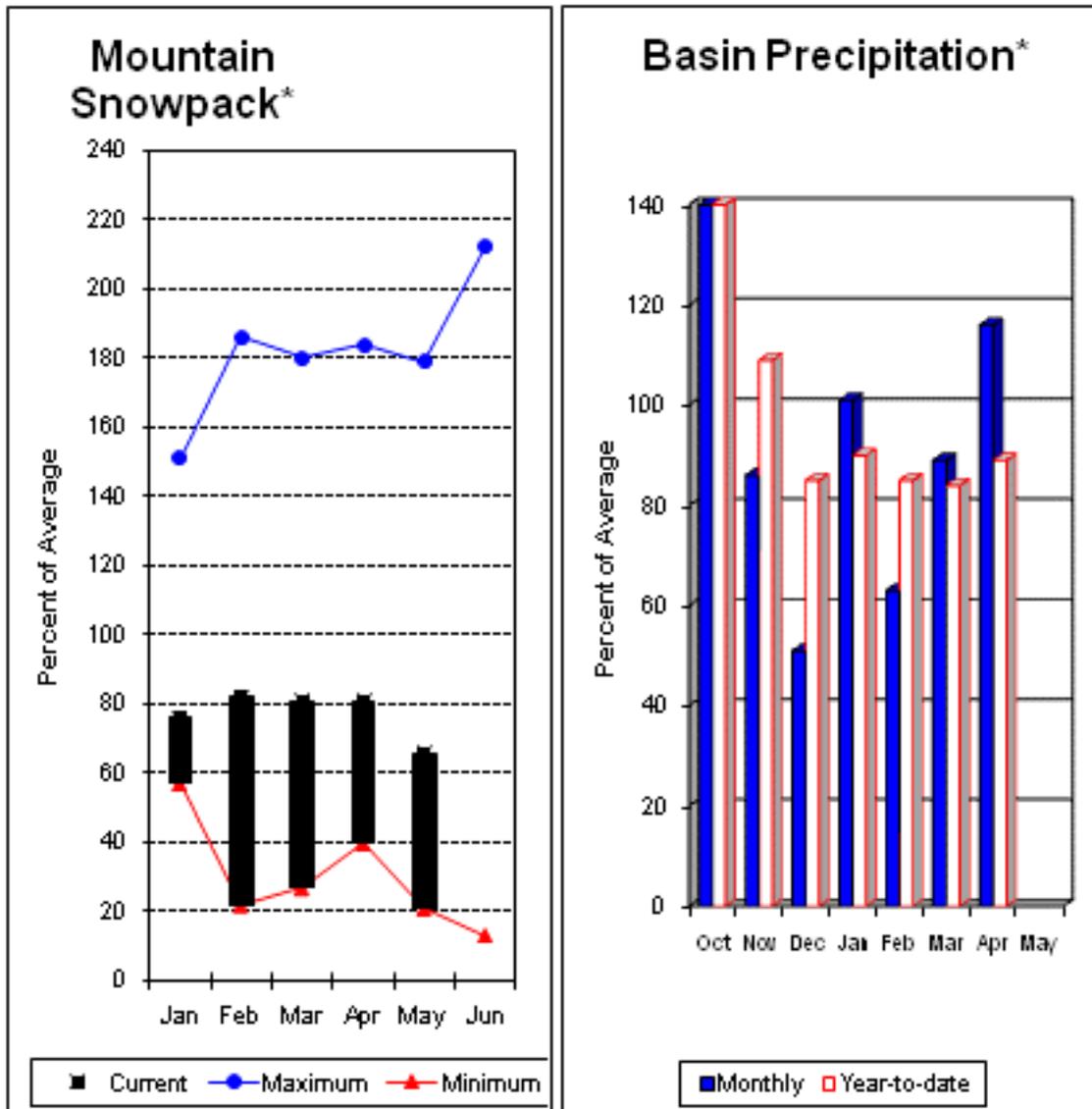
PEND OREILLE RIVER BASINS Reservoir Storage (1000 AF) - End of April					PEND OREILLE RIVER BASINS Watershed Snowpack Analysis - May 1, 2010			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
PEND OREILLE	1561.3	844.8	938.1	916.7	COLVILLE RIVER	0	0	0
PRIEST LAKE	119.3	94.9	77.6	102.5	PEND OREILLE RIVER	8	60	56
					KETTLE RIVER	1	75	154

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

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

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

Upper Columbia River Basins



*Based on selected stations

Summer runoff average forecast for the Okanogan River is 60%, Similkameen River is 59%, Kettle River 71% and Methow River is 63%. May 1 snow cover on the Okanogan was at 73% of average, Omak Creek was 105% and the Methow was 77%. April precipitation in the Upper Columbia was 116% of average, with precipitation for the water year at 89% of average. April streamflow for the Methow River was 106% of average, 73% for the Okanogan River and 96% for the Similkameen. Snow-water content at Salmon Meadows SNOTEL was 2.6 inches. Average for this site is 3.9 inches on May 1. Combined storage in the Conconully Reservoirs was 15,000-acre feet, which is 65% of capacity and 80% of the May 1 average. Temperatures were 2 degrees above normal for April and 2-3 degrees above for the water year.

For more information contact your local Natural Resources Conservation Service office.

Upper Columbia River Basins

Streamflow Forecasts - May 1, 2010

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)
		===== Chance Of Exceeding * =====						
		90% (1000AF)	70% (1000AF)	50% (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
COLVILLE at Kettle Falls	MAY-JUL	25	48	64	81	80	103	79
	MAY-SEP	30	57	75	82	93	120	92
KETTLE near Laurier	MAY-JUL	800	970	1090	71	1210	1380	1540
	MAY-SEP	830	1030	1160	71	1290	1490	1640
COLUMBIA at Birchbank (1,2)	MAY-JUL	21200	24400	25900	82	27400	30600	31600
	MAY-SEP	27300	31200	33000	82	34800	38700	40200
COLUMBIA at Grand Coulee Dm (1,2)	MAY-JUL	31500	34200	35400	76	36600	39300	46600
	MAY-SEP	38600	41600	42900	76	44200	47200	56700
Similkameen R nr Nighthawk (1)	MAY-JUL	475	645	720	59	795	965	1220
	MAY-SEP	505	695	780	59	865	1050	1320
Okanogan R nr Tonasket (1)	MAY-JUL	390	700	840	60	980	1290	1400
	MAY-SEP	450	800	960	60	1120	1470	1590
Okanogan R at Malott (1)	MAY-JUL	400	725	870	60	1020	1340	1450
	MAY-SEP	460	825	990	60	1160	1520	1640
Methow R nr Pateros	MAY-SEP	425	500	555	63	610	685	880
	MAY-JUL	385	460	510	63	560	635	810

UPPER COLUMBIA RIVER BASINS Reservoir Storage (1000 AF) - End of April					UPPER COLUMBIA RIVER BASINS Watershed Snowpack Analysis - May 1, 2010			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
SALMON LAKE	10.5	7.4	7.2	8.9	OKANOGAN RIVER	3	92	66
CONCONULLY RESERVOIR	13.0	7.8	8.6	10.1	OMAK CREEK	1	224	105
					SANPOIL RIVER	0	0	0
					SIMILKAMEEN RIVER	0	0	0
					TOATS COULEE CREEK	0	0	0
					CONCONULLY LAKE	1	0	67
					METHOW RIVER	5	110	77

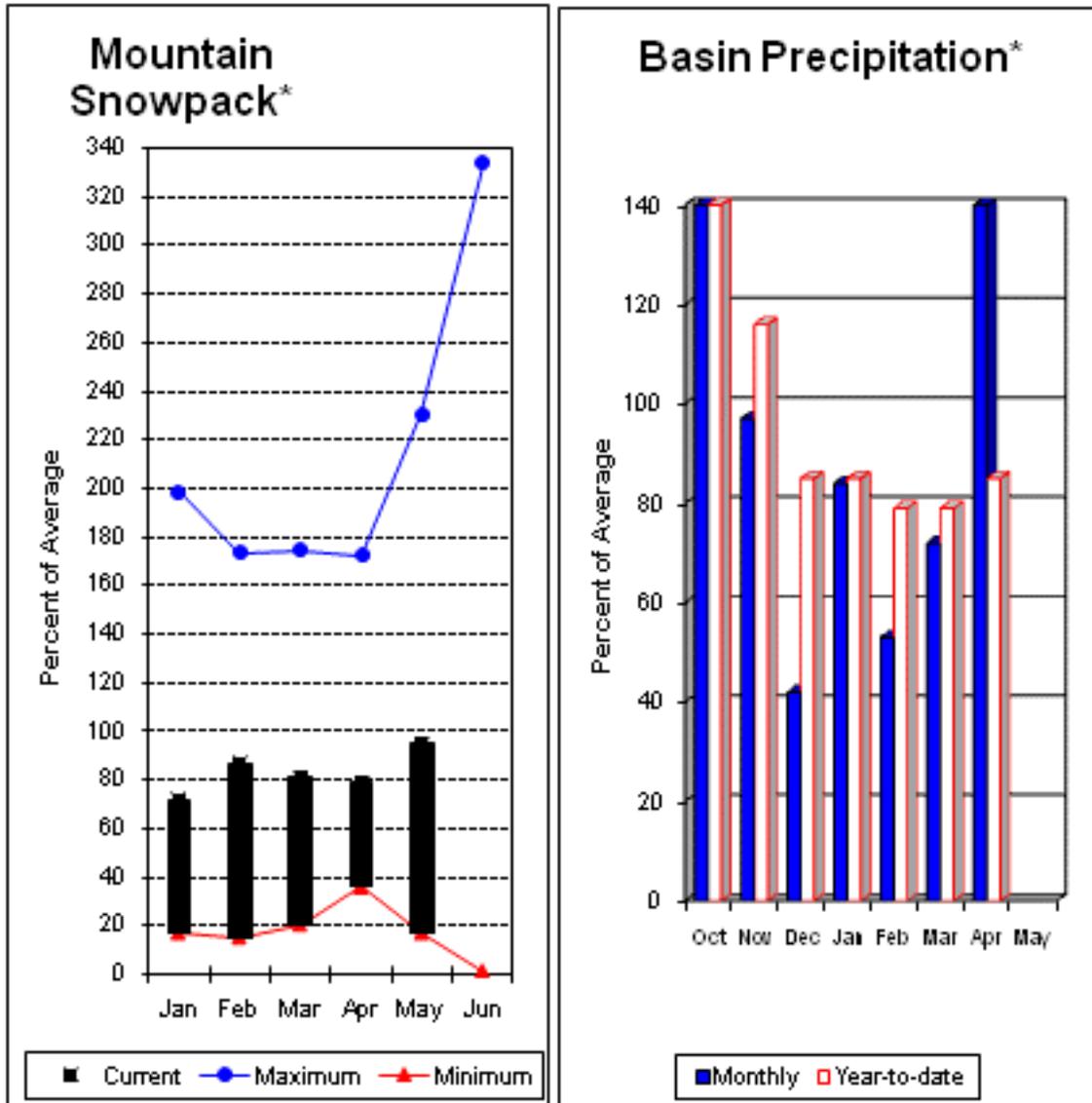
* 90%, 70%, 50%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

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

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

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

Central Columbia River Basins



*Based on selected stations

Precipitation during April was 162% of average in the basin and 85% for the year-to-date. Runoff for Entiat River is forecast to be 78% of average for the summer. The May-September average forecast for Chelan River is 76%, Wenatchee River at Plain is 78%, Stehekin River is 77% and Icicle Creek is 60%. April average streamflows on the Chelan River were 91% and on the Wenatchee River 77%. May 1 snowpack in the Wenatchee River Basin was 74% of average; the Chelan, 76%; the Entiat, 126%; Stemilt Creek, 105%. Reservoir storage in Lake Chelan was 391,000-acre feet, 147% of May 1 average and 58% of capacity. Lyman Lake SNOTEL had the most snow water with 55.3 inches of water. This site would normally have 67.2 inches on May 1. Temperatures were 1 degree above normal for April and 2 degrees above for the water year.

For more information contact your local Natural Resources Conservation Service office.

Central Columbia River Basins

Streamflow Forecasts - May 1, 2010

Forecast Point	Forecast Period	Future Conditions					30-Yr Avg. (1000AF)	
		Drier		Wetter		Chance Of Exceeding * 50% (1000AF) (% AVG.)		
		90% (1000AF)	70% (1000AF)	30% (1000AF)	10% (1000AF)			
Stehekin R at Stehekin	MAY-JUL MAY-SEP	375 470	440 535	485 575	78 77	530 615	595 680	620 745
Chelan R at Chelan (2)	MAY-JUL MAY-SEP	600 710	655 765	690 800	76 76	725 835	780 890	910 1050
Entiat R nr Ardenvoir	MAY-JUL MAY-SEP	129 142	143 157	153 167	79 78	163 177	177 192	195 215
Wenatchee R at Plain	MAY-JUL MAY-SEP	600 680	660 750	705 795	78 78	750 840	810 910	905 1020
Icicle Ck nr Leavenworth	MAY-JUL MAY-SEP	124 136	147 162	163 179	60 60	179 196	200 220	270 300
Wenatchee R at Peshastin	MAY-JUL MAY-SEP	785 900	870 990	925 1050	74 75	980 1110	1060 1200	1250 1410
Columbia R bl Rock Island Dam (2)	MAY-JUL MAY-SEP	34100 41000	37100 44600	39100 47000	77 76	41100 49400	44100 53000	51100 61600

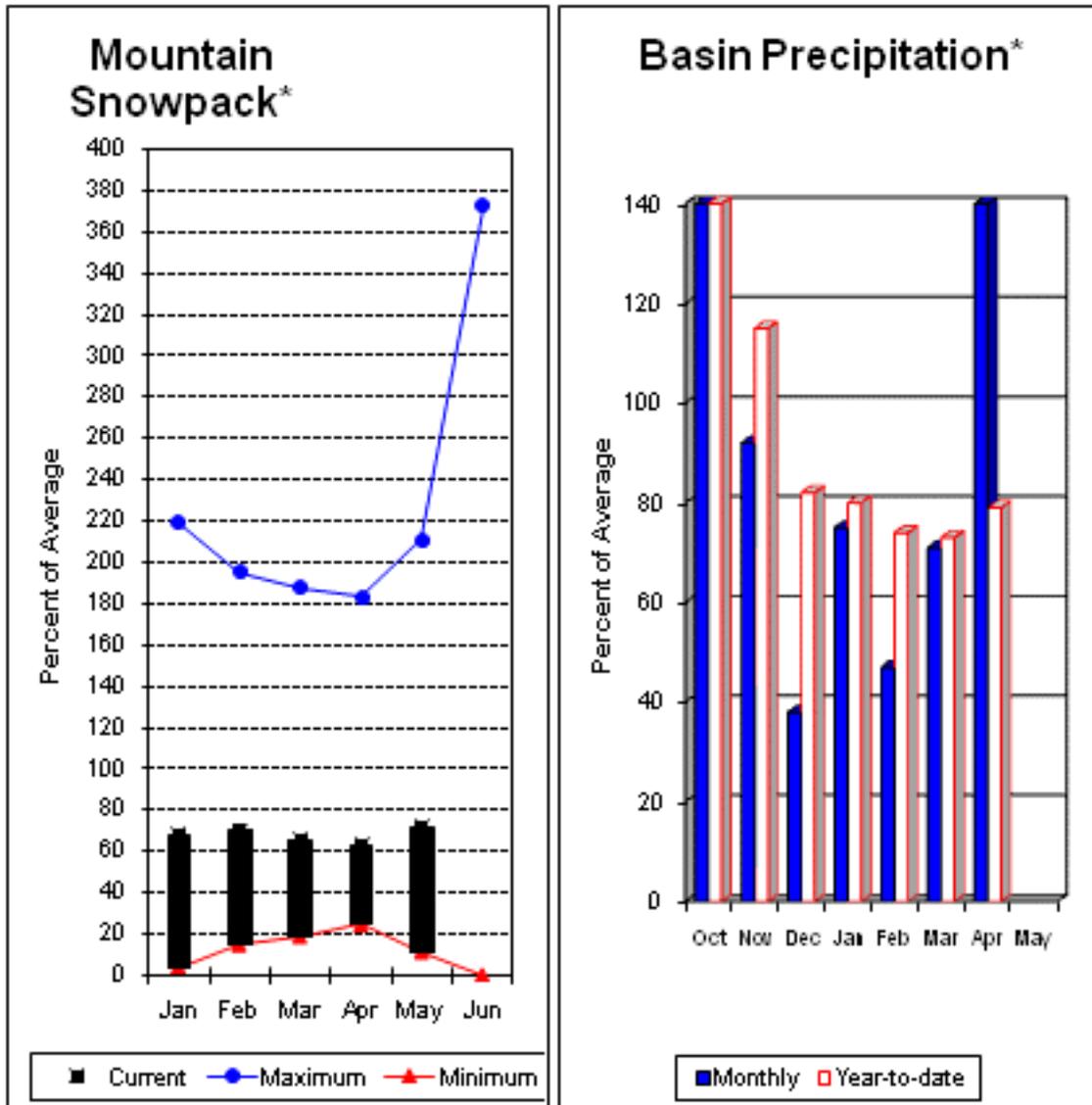
CENTRAL COLUMBIA RIVER BASINS Reservoir Storage (1000 AF) - End of April					CENTRAL COLUMBIA RIVER BASINS Watershed Snowpack Analysis - May 1, 2010			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
CHELAN LAKE	676.1	391.3	265.9	265.6	CHELAN LAKE BASIN	5	104	76
					ENTIAT RIVER	1	119	126
					WENATCHEE RIVER	7	95	77
					STEMILT CREEK	1	62	105
					COLOCKUM CREEK	1	198	212

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

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

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

Upper Yakima River Basin



*Based on selected stations

May 1 reservoir storage for the Upper Yakima reservoirs was 538,000-acre feet, 87% of average. Forecasts for the Yakima River at Cle Elum are 67% of average and the Teanaway River near Cle Elum is at 51%. Lake inflows are all forecasted to be considerably below normal this summer as well. April streamflows within the basin were Yakima at Cle Elum at 73% and Cle Elum River near Roslyn at 79%. May 1 snowpack was 72% based upon 8 snow course and SNOTEL readings within the Upper Yakima Basin. Precipitation was 148% of average for April and 79% year-to-date for water. Volume forecasts for the Yakima Basin are for natural flow. 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.

For more information contact your local Natural Resources Conservation Service office.

Upper Yakima River Basin

Streamflow Forecasts - May 1, 2010

Forecast Point	Forecast Period	<<==== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)				
		90% (1000AF)		70% (1000AF)		Chance Of Exceeding * 50% (1000AF) (% AVG.)			30% (1000AF)		10% (1000AF)	
Keechelus Reservoir Inflow (2)	MAY-JUL	48	56	61	66	66	74	92				
	MAY-SEP	52	61	68	66	75	84	103				
Kachess Reservoir Inflow (2)	MAY-JUL	46	51	55	66	59	64	84				
	MAY-SEP	49	55	60	65	65	71	92				
Cle Elum Lake Inflow (2)	MAY-JUL	200	220	230	70	240	260	330				
	MAY-SEP	225	245	260	69	275	295	375				
Yakima R at Cle Elum (2)	MAY-JUL	355	395	425	67	455	495	635				
	MAY-SEP	380	440	480	67	520	580	715				
Teanaway R bl Forks nr Cle Elum	MAY-JUL	21	36	46	51	56	71	91				
	MAY-SEP	23	38	48	51	58	73	95				

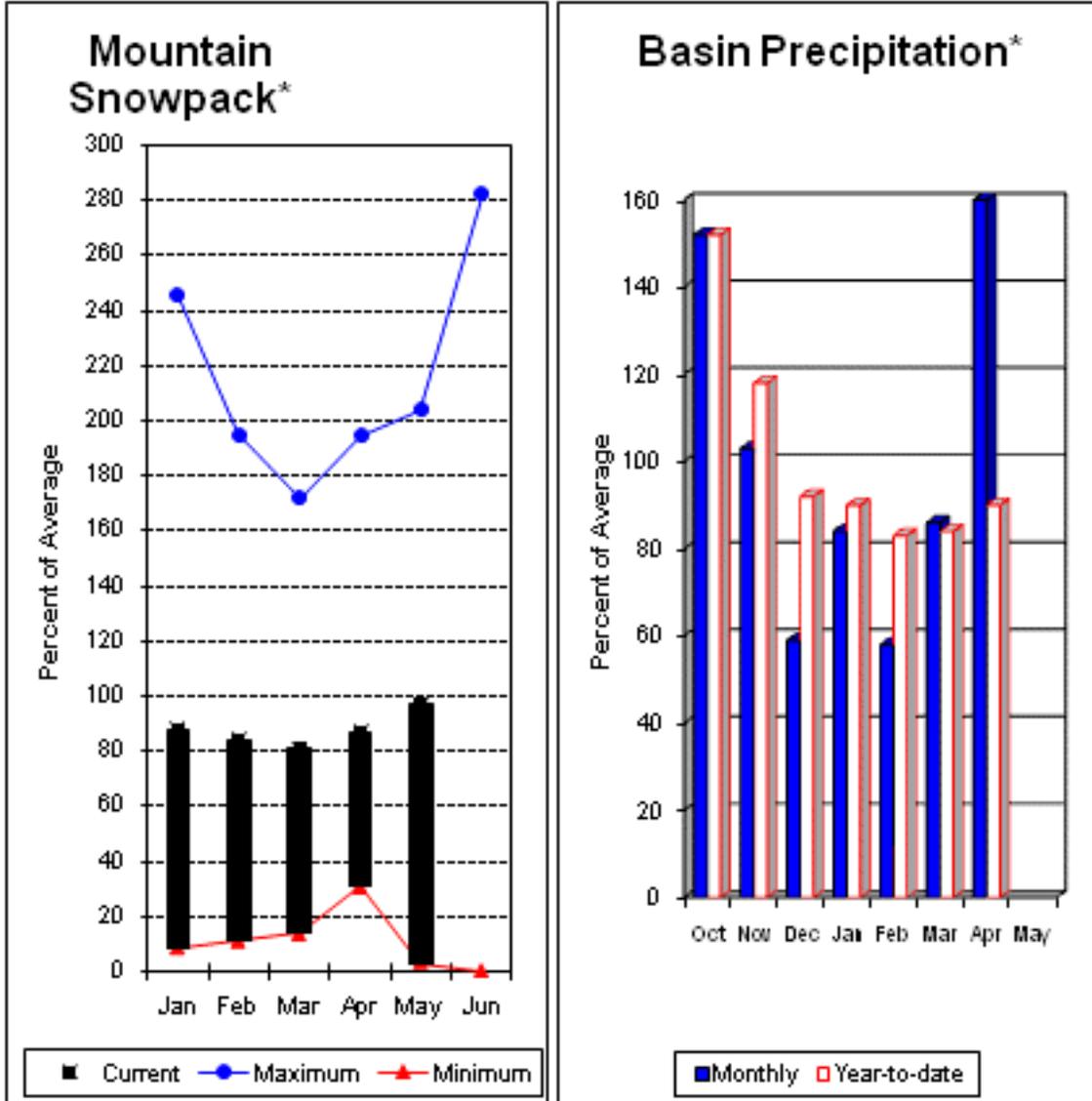
UPPER YAKIMA RIVER BASIN Reservoir Storage (1000 AF) - End of April					UPPER YAKIMA RIVER BASIN Watershed Snowpack Analysis - May 1, 2010			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
KEECHELUS	157.8	112.1	141.7	125.6	UPPER YAKIMA RIVER	8	77	72
KACHESS	239.0	180.9	231.9	188.3				
CLE ELUM	436.9	244.6	366.7	307.0				

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

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

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

Lower Yakima River Basin



*Based on selected stations

April average streamflows within the basin were: Yakima River near Parker, 76%; Naches River near Naches, 94%; and Yakima River at Kiona, 51%. May 1 reservoir storage for Bumping and Rimrock reservoirs was 147,000-acre feet, 87% of average. Forecasted runoff for the Yakima River near Parker is 70%; American River near Nile, 88%; Ahtanum Creek, 80%; and Klickitat River near Glenwood, 76%. May 1 snowpack was 97% based upon 6 snow course and SNOTEL readings within the Lower Yakima Basin and Ahtanum Creek reported in at 99% of average. Precipitation was 177% of average for April and 90% year-to-date for water. Temperatures were 1 degree above normal for April and near normal for the water year. Volume forecasts for Yakima Basin are for natural flow. 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.

For more information contact your local Natural Resources Conservation Service office.

Lower Yakima River Basin

Streamflow Forecasts - May 1, 2010

Forecast Point	Forecast Period	Future Conditions					30-Yr Avg. (1000AF)	
		<<----- Drier ----->>		----- Wetter ----->>		Chance Of Exceeding * 50% (1000AF) (% AVG.)		
		90% (1000AF)	70% (1000AF)	30% (1000AF)	10% (1000AF)			
Bumping Lake Inflow (2)	MAY-JUL	57	70	79	77	88	101	103
	MAY-SEP	64	78	87	77	96	110	113
American R nr Nile	MAY-JUL	63	72	79	88	86	95	90
	MAY-SEP	70	81	88	88	95	106	100
Rimrock Lake Inflow (2)	MAY-JUL	110	124	133	79	142	156	168
	MAY-SEP	136	151	161	79	171	186	205
Naches R nr Naches (2)	MAY-JUL	325	390	435	76	480	545	570
	MAY-SEP	355	430	480	76	530	605	630
Ahtanum Ck at Union Gap	MAY-JUL	9.8	13.9	16.7	80	19.5	24	21
	MAY-SEP	11.3	15.5	18.4	80	21	26	23
Yakima R nr Parker (2)	MAY-JUL	775	880	950	70	1020	1120	1360
	MAY-SEP	890	1000	1080	70	1160	1270	1540
Klickitat R nr Glenwood	MAY-JUL	68	78	84	76	90	100	110
	MAY-SEP	85	96	103	76	110	121	135
Klickitat R nr Pitt	MAY-JUL	235	265	285	86	305	335	330
	MAY-SEP	300	335	360	86	385	420	420

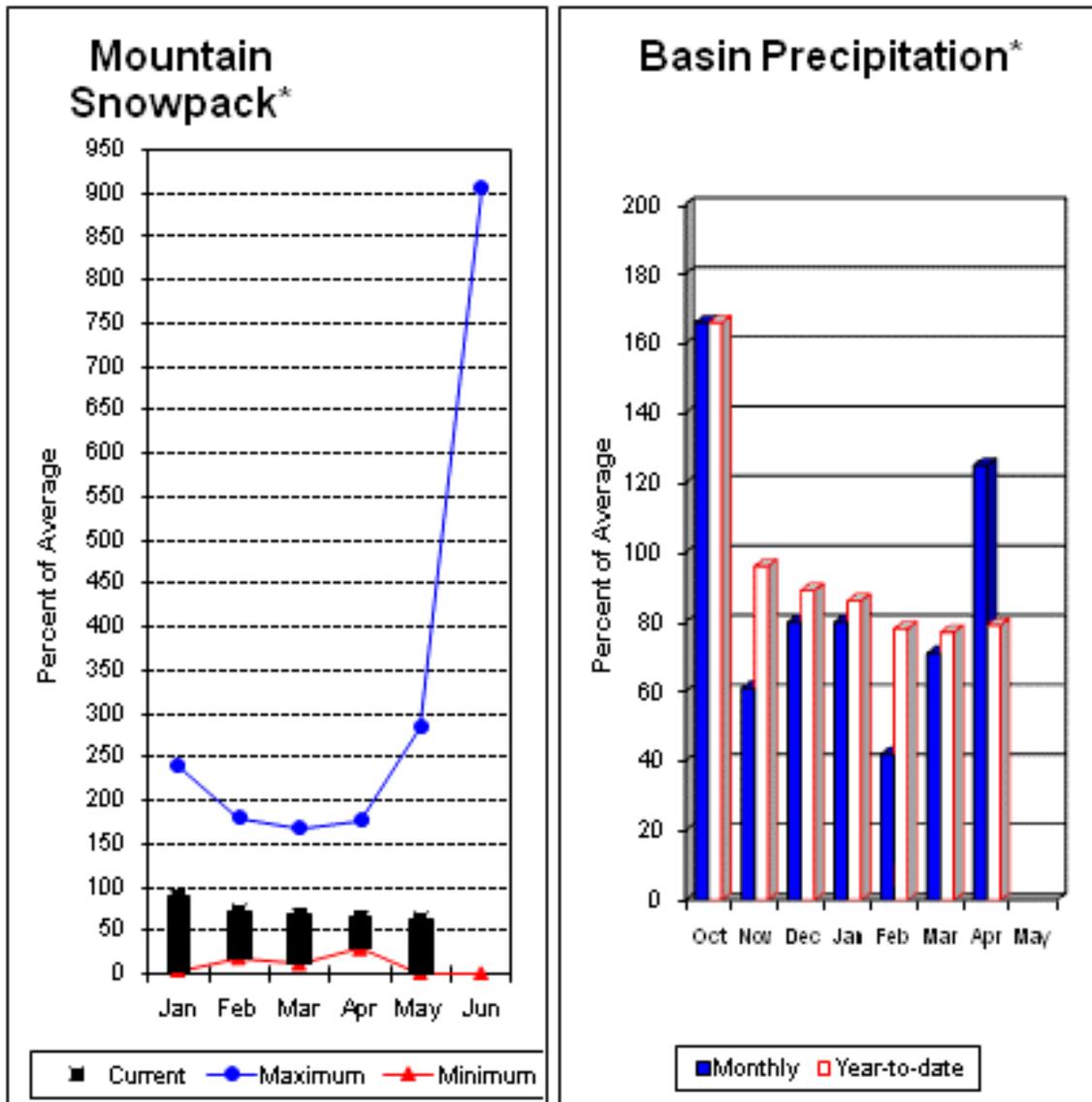
LOWER YAKIMA RIVER BASIN Reservoir Storage (1000 AF) - End of April					LOWER YAKIMA RIVER BASIN Watershed Snowpack Analysis - May 1, 2010			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
BUMPING LAKE	33.7	14.0	13.8	19.6	LOWER YAKIMA RIVER	6	105	97
RIMROCK	198.0	132.7	175.0	149.4	AHTANUM CREEK	2	99	99

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

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

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

Walla Walla River Basin



*Based on selected stations

April precipitation was 125% of average, maintaining the year-to-date precipitation at 79% of average. Snowpack in the basin was 64% of average. Streamflow forecasts are 75% of average for Mill Creek and 71% for the SF Walla Walla near Milton-Freewater. April streamflow was 113% of average for the SF Walla Walla River. Average temperatures were near normal for April and 1 degree above average for the water year.

For more information contact your local Natural Resources Conservation Service office.

Walla Walla River Basin

Streamflow Forecasts - May 1, 2010

Forecast Point	Forecast Period	<<==== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)				
		90% (1000AF)		70% (1000AF)		Chance Of Exceeding * 50% (1000AF) (% AVG.)			30% (1000AF)		10% (1000AF)	
SF Walla Walla R nr Milton-Freewater	MAY-JUL	18.5	24	27	71	30	36	38				
	MAY-SEP	26	32	36	71	40	46	51				
Mill Ck nr Walla Walla	MAY-JUL	7.2	9.4	11.0	75	12.6	14.8	14.7				
	MAY-SEP	9.7	12.1	13.8	75	15.5	17.9	18.4				

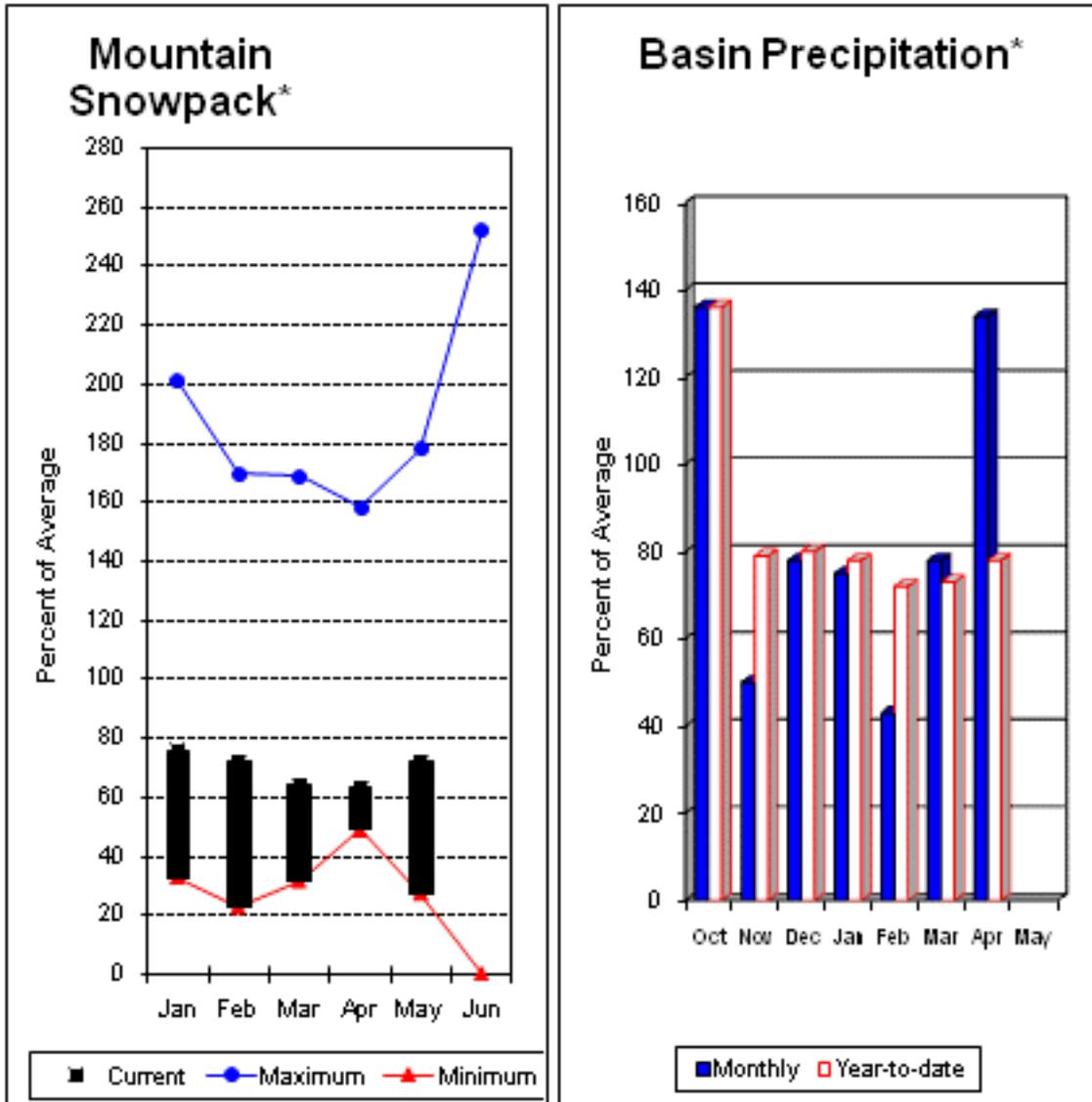
WALLA WALLA RIVER BASIN Reservoir Storage (1000 AF) - End of April					WALLA WALLA RIVER BASIN Watershed Snowpack Analysis - May 1, 2010			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
					WALLA WALLA RIVER	2	43	64

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

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

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

Lower Snake River Basin



*Based on selected stations

The May - September forecast is for 60% for Clearwater River at Spalding. The Snake and Grande Ronde rivers can expect summer flows to be about 57% and 77% of normal respectively. May 1 storage for Dworshak reservoir was 102% of average. April precipitation was 134% of average, bringing the year-to-date precipitation to 78% of average. May 1 snowpack readings averaged 72% of normal. April streamflow was 60% of average for Snake River below Lower Granite Dam and 58% for Grande Ronde River near Troy. Average temperatures were near normal for April and 1 degree above normal for the water year.

For more information contact your local Natural Resources Conservation Service office.

Lower Snake River Basin

Streamflow Forecasts - May 1, 2010

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		<<===== Drier =====>>		=====		>>===== Wetter =====>>		
		90% (1000AF)	70% (1000AF)	Chance Of Exceeding * 50% (1000AF) (% AVG.)		30% (1000AF)	10% (1000AF)	
Grande Ronde R at Troy	MAY-JUL	440	610	685	75	760	930	910
	MAY-SEP	505	690	775	77	860	1050	1010
CLEARWATER R at Spalding (1,2)	MAY-JUL	2340	3140	3500	61	3860	4660	5770
	MAY-SEP	2490	3350	3740	60	4130	4990	6190
SNAKE blw Lower Granite Dam (1,2)	MAY-JUL	6220	8480	9510	57	10500	12800	16700
	MAY-SEP	7200	9810	11000	57	12200	14800	19300

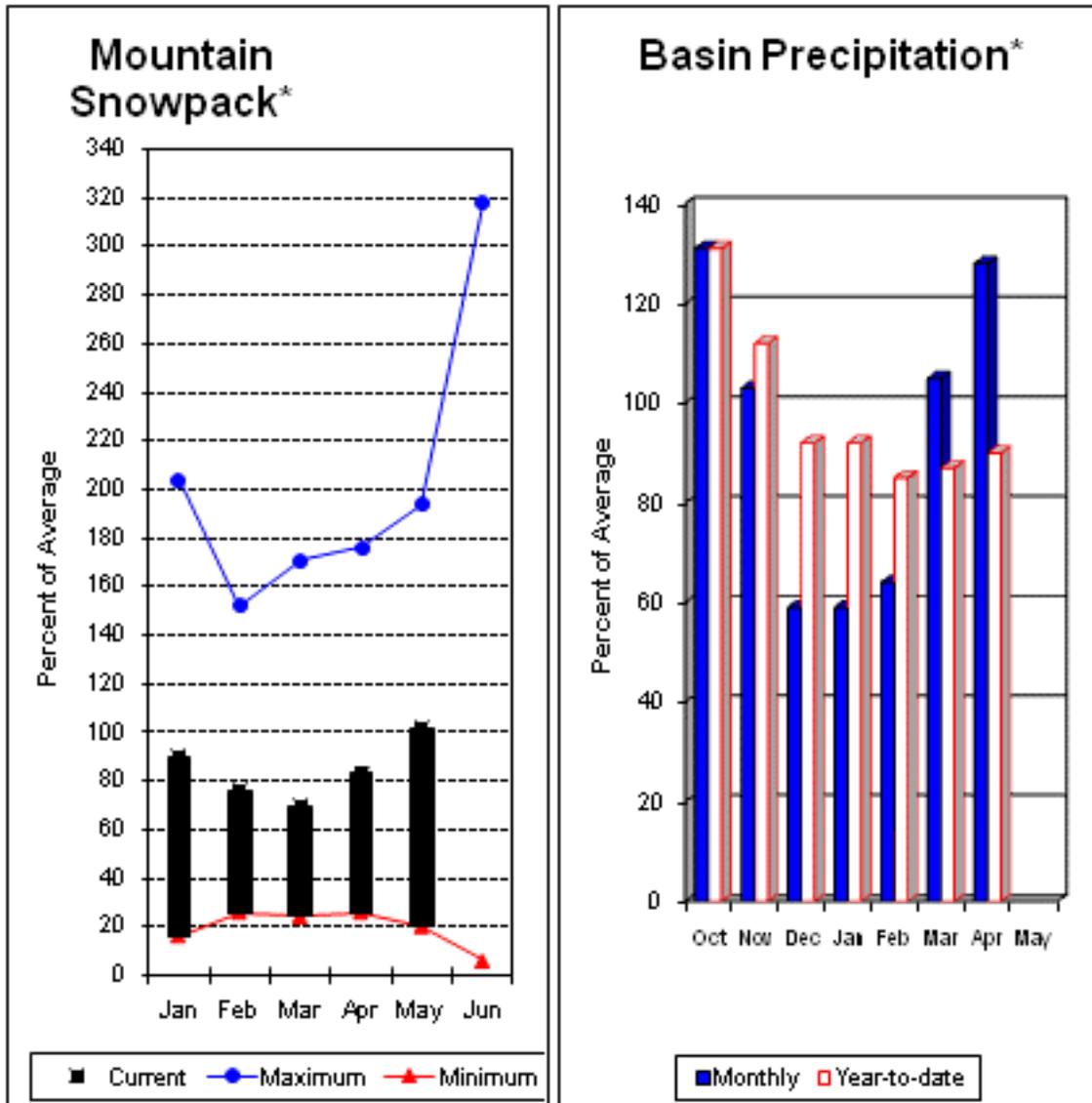
LOWER SNAKE RIVER BASIN Reservoir Storage (1000 AF) - End of April					LOWER SNAKE RIVER BASIN Watershed Snowpack Analysis - May 1, 2010			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
DWORSHAK	3468.0	2621.0	2310.3	2560.7	LOWER SNAKE, GRANDE RONDE	10	67	72

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

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

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

Lower Columbia River Basins



*Based on selected stations

Forecasts for May – September streamflows within the basin are Lewis River at Ariel, 83% and Cowlitz River at Castle Rock, 85% of average. The Columbia at The Dalles is forecasted to have 66% of average flows this summer. April average streamflow for Cowlitz River was 84% and 98% for Lewis River. The Columbia River at The Dalles was 69% of average. April precipitation was 128% of average and the water-year average was 90%. May 1 snow cover for Cowlitz River was 95%, and Lewis River was 109% of average. Average temperatures were near normal during April and 1 degree above normal for the water year.

For more information contact your local Natural Resources Conservation Service office.

Lower Columbia River Basins

Streamflow Forecasts - May 1, 2010

Forecast Point	Forecast Period	<<==== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)				
		90% (1000AF)		70% (1000AF)		Chance Of Exceeding * 50% (1000AF) (% AVG.)			30% (1000AF)		10% (1000AF)	
Columbia R at The Dalles (2)	MAY-JUL	39800	44000	46800	66	49600	53800	70500				
	MAY-SEP	47700	52700	56100	66	59500	64500	84500				
Klickitat R nr Glenwood	MAY-JUL	68	78	84	76	90	100	110				
	MAY-SEP	85	96	103	76	110	121	135				
Klickitat R nr Pitt	MAY-JUL	235	265	285	86	305	335	330				
	MAY-SEP	300	335	360	86	385	420	420				
Lewis R at Ariel (2)	MAY-JUL	410	495	555	83	615	700	667				
	MAY-SEP	510	605	670	83	735	830	812				
Cowlitz R bl Mayfield Dam (2)	MAY-JUL	775	950	1070	86	1190	1360	1247				
	MAY-SEP	880	1110	1270	86	1430	1660	1478				
Cowlitz R at Castle Rock (2)	MAY-JUL	1050	1250	1380	85	1510	1710	1629				
	MAY-SEP	1310	1520	1670	85	1820	2030	1972				

LOWER COLUMBIA RIVER BASINS Reservoir Storage (1000 AF) - End of April

LOWER COLUMBIA RIVER BASINS Watershed Snowpack Analysis - May 1, 2010

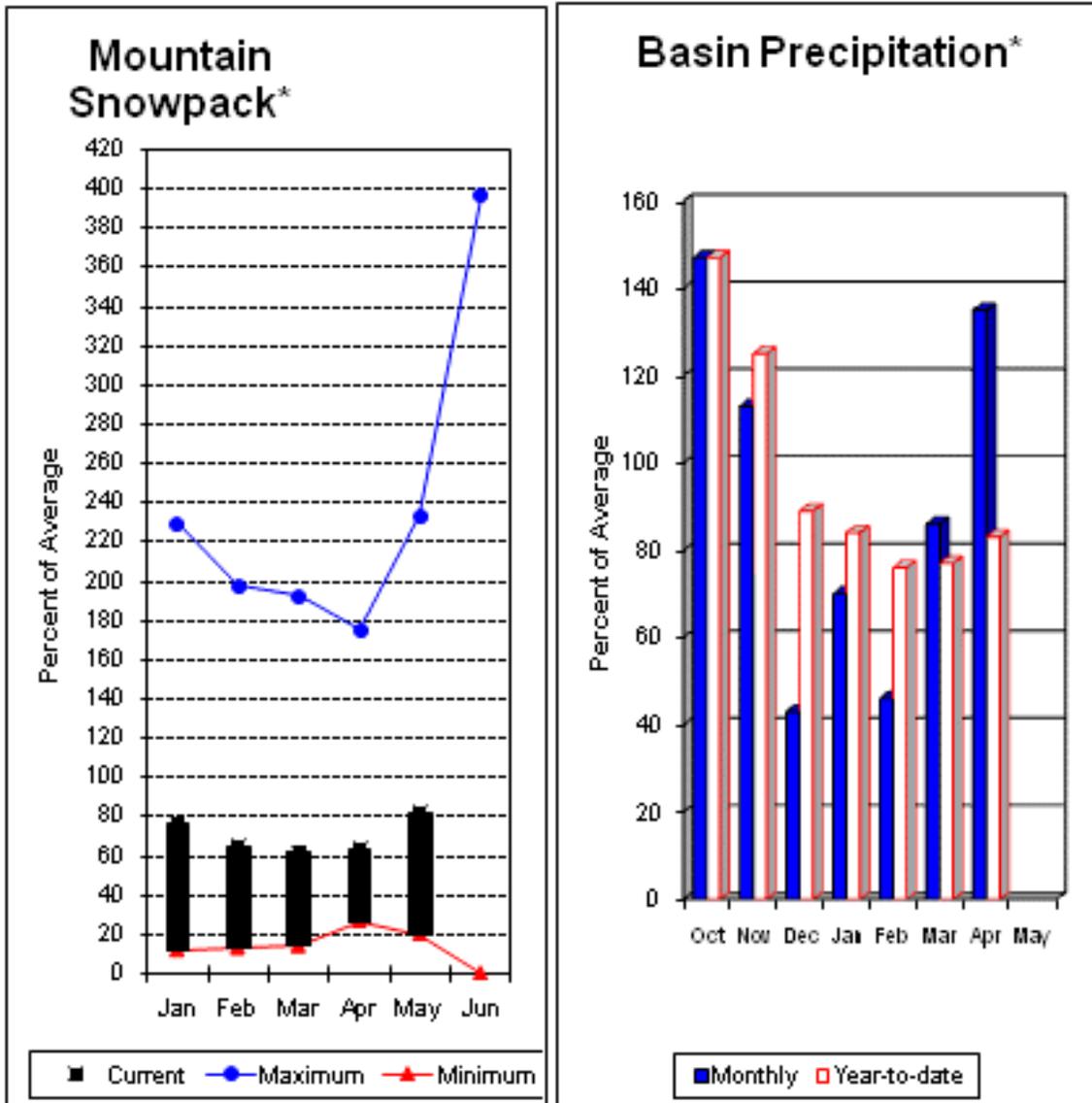
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
MOSSYROCK	0.0	1260.4	1350.4	---	LEWIS RIVER	5	89	109
SWIFT	0.0	727.9	738.8	---	COWLITZ RIVER	6	83	95
YALE	0.0	394.8	376.1	---				
MERWIN	0.0	417.6	419.8	---				

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

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

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

South Puget Sound River Basins



*Based on selected stations

Summer runoff is forecast to be 50% of normal for the Green River below Howard Hanson Dam and 85% for the White River near Buckley. May 1 snowpack was 102% of average for the White River, 93% for Puyallup River and 52% in the Green River Basin. Water content on May 1 at Corral Pass SNOTEL, at an elevation of 6,000 feet, was 30.8 inches. This site has a May 1 average of 35.3 inches. April precipitation was 135% of average, bringing the water year-to-date to 83% of average for the basins. Average temperatures in the area were 1 degree above normal for April and 1 degree above normal for the water-year.

For more information contact your local Natural Resources Conservation Service office.

South Puget Sound River Basins

Streamflow Forecasts - May 1, 2010

Forecast Point	Forecast Period	Future Conditions						30-Yr Avg. (1000AF)
		<<===== Drier =====>>		Chance Of Exceeding *		===== Wetter =====>>		
		90% (1000AF)	70% (1000AF)	50% (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	
WHITE near Buckley (1,2)	MAY-JUL	198	265	295	85	325	390	348
	MAY-SEP	260	340	375	85	410	490	442
GREEN R below Howard Hansen (1,2)	MAY-JUL	28	69	88	50	107	148	176
	MAY-SEP	38	81	101	50	121	164	202

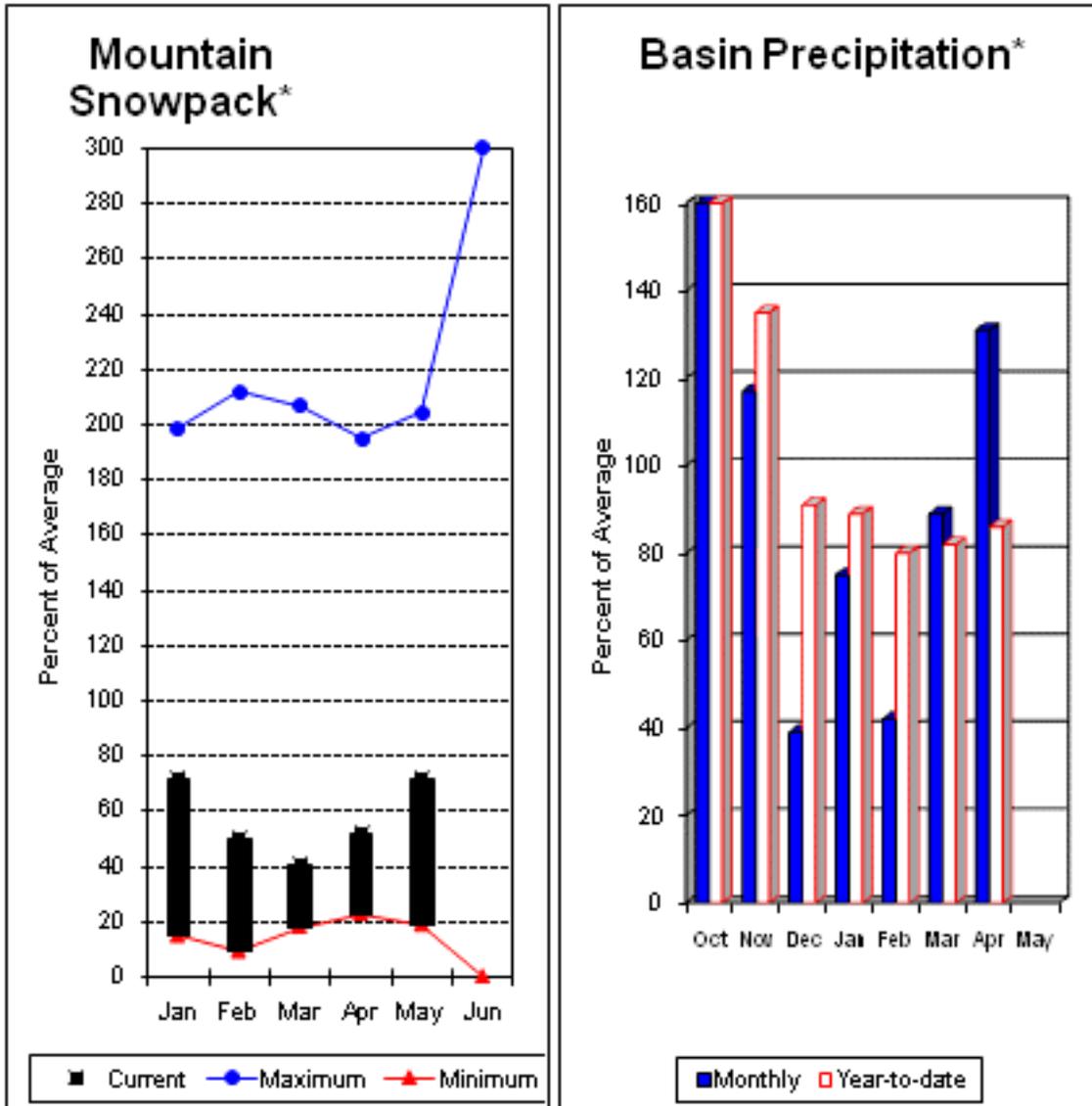
SOUTH PUGET SOUND RIVER BASINS Reservoir Storage (1000 AF) - End of April					SOUTH PUGET SOUND RIVER BASINS Watershed Snowpack Analysis - May 1, 2010			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
					WHITE RIVER	3	118	102
					GREEN RIVER	3	43	52
					PUYALLUP RIVER	5	88	103

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

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

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

Central Puget Sound River Basins



*Based on selected stations

Forecast for spring and summer flows are: 64% for Cedar River near Cedar Falls; 58% for Rex River; 56% for South Fork of the Tolt River; and 48% for Cedar River at Cedar Falls. Basin-wide precipitation for April was 131% of average, bringing water-year-to-date to 86% of average. May 1 average snow cover in Cedar River Basin was 76%, Tolt River Basin was 68%, Snoqualmie River Basin was 73%, and Skykomish River Basin was 73%. Olallie Meadows SNOTEL site, at 3960 feet, had 51.2 inches of water content. Average May 1 water content is 55.1 inches at Olallie Meadows. Temperatures were 1 degree above normal for April and 2 degrees above for the water-year.

For more information contact your local Natural Resources Conservation Service office.

Central Puget Sound River Basins

Streamflow Forecasts - May 1, 2010

Forecast Point	Forecast Period	Future Conditions <<==== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)				
		90% (1000AF)		70% (1000AF)		Chance Of Exceeding * 50% (1000AF) (% AVG.)			30% (1000AF)		10% (1000AF)	
CEDAR near Cedar Falls	MAY-JUL	24	30	34	65	38	44	52				
	MAY-SEP	26	33	38	64	43	50	59				
REX near Cedar Falls	MAY-JUL	5.7	8.3	10.1	58	11.9	14.5	17.4				
	MAY-SEP	6.3	9.5	11.6	58	13.7	16.9	20				
CEDAR RIVER at Cedar Falls	MAY-JUL	4.7	15.0	22	47	29	39	47				
	MAY-SEP	2.8	14.2	22	48	30	41	46				
SOUTH FORK TOLT near Index	MAY-JUL	2.8	4.8	6.2	56	7.6	9.6	11.0				
	MAY-SEP	3.0	5.6	7.4	56	9.2	11.8	13.2				

CENTRAL PUGET SOUND RIVER BASINS Reservoir Storage (1000 AF) - End of April

CENTRAL PUGET SOUND RIVER BASINS Watershed Snowpack Analysis - May 1, 2010

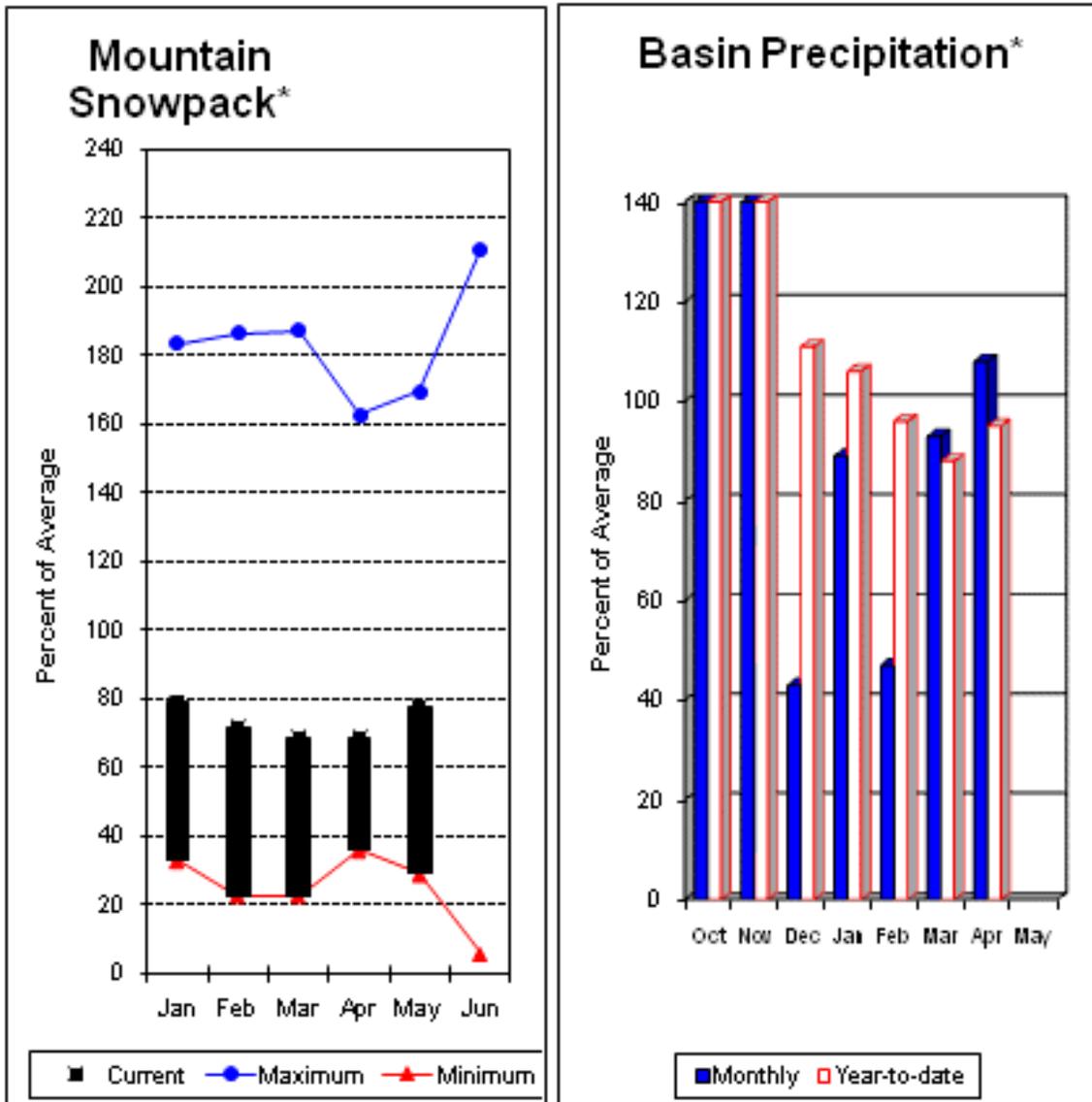
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
					CEDAR RIVER	4	31	76
					TOLT RIVER	2	31	68
					SNOQUALMIE RIVER	4	50	73
					SKYKOMISH RIVER	2	60	73

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

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

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

North Puget Sound River Basins



*Based on selected stations

Forecast for Skagit River streamflow at Newhalem is 82% of average for the spring and summer period. April streamflow in Skagit River was 77% of average. Other forecast points included Baker River at 73% and Thunder Creek at 89% of average. Basin-wide precipitation for April was 108% of average, bringing water-year-to-date to 95% of average. May 1 average snow cover in Skagit River Basin was 77%, Nooksack River Basin was 79% and Baker River Basin was not available at this time. Brown Top snow course, at 6000 feet, had 56 inches of water content. Average May 1 water content is 62.1 inches at Brown Top. May 1 Skagit River reservoir storage was 119% of average and 63% of capacity. Average temperatures for April were 2 degrees above normal for the basin and 2 degrees above average for the water year.

For more information contact your local Natural Resources Conservation Service office.

North Puget Sound River Basins

Streamflow Forecasts - May 1, 2010

Forecast Point	Forecast Period	<<===== Drier ===== Future Conditions ===== Wetter =====>>						30-Yr Avg. (1000AF)				
		90% (1000AF)		70% (1000AF)		Chance Of Exceeding * 50% (1000AF) (% AVG.)			30% (1000AF)		10% (1000AF)	
THUNDER CREEK near Newhalem	MAY-JUL	155	175	188	89	200	220	212				
	MAY-SEP	240	260	275	89	290	310	310				
SKAGIT at Newhalem (2)	MAY-JUL	1150	1240	1300	81	1360	1450	1611				
	MAY-SEP	1420	1530	1600	82	1670	1780	1964				
BAKER RIVER near Concrete	MAY-JUL	380	450	500	73	550	620	684				
	MAY-SEP	465	580	660	73	740	855	906				

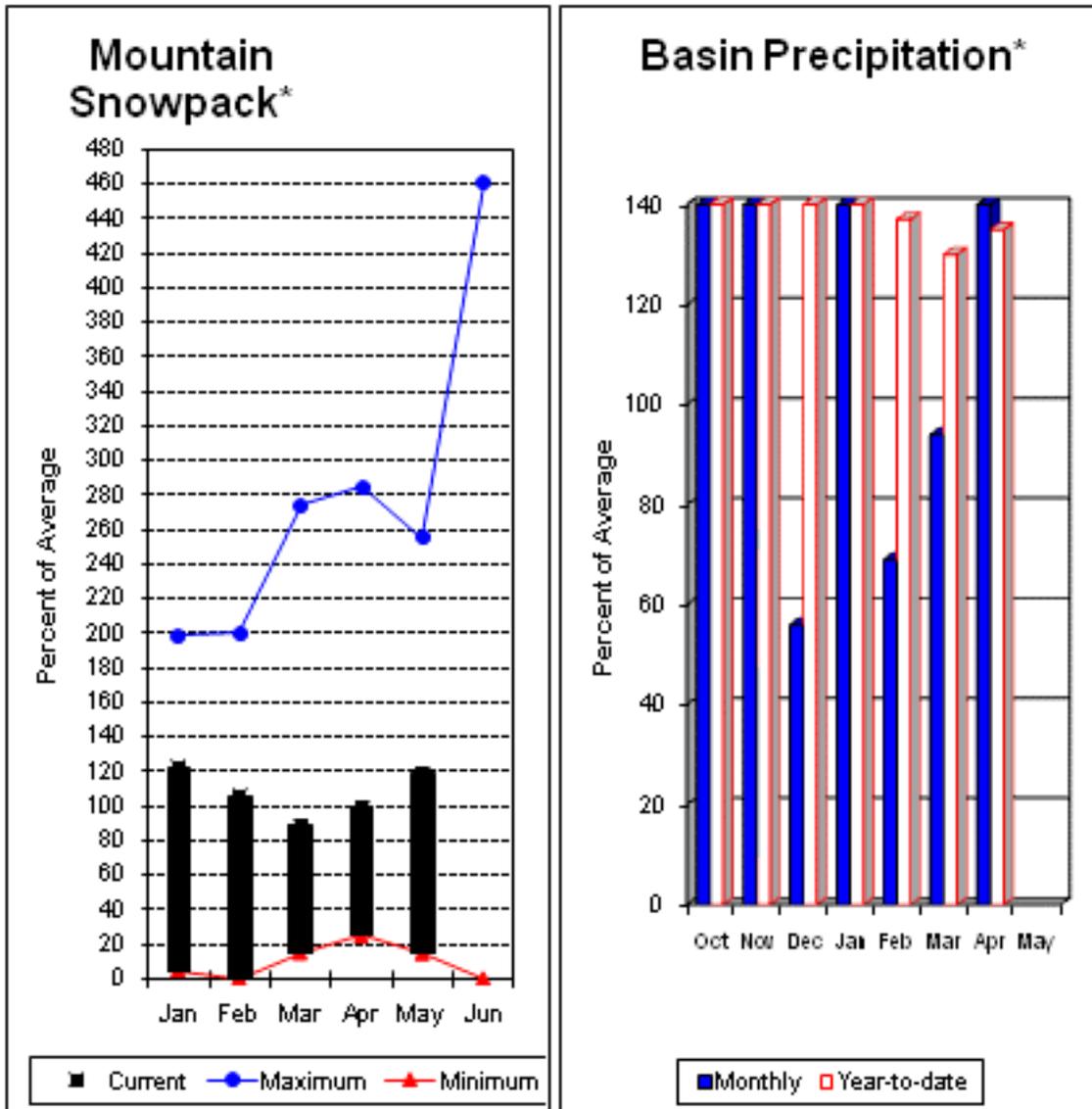
NORTH PUGET SOUND RIVER BASINS Reservoir Storage (1000 AF) - End of April					NORTH PUGET SOUND RIVER BASINS Watershed Snowpack Analysis - May 1, 2010			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
ROSS	1404.1	860.2	820.9	708.8	SKAGIT RIVER	15	100	77
DIABLO RESERVOIR	90.6	86.0	87.2	85.9	BAKER RIVER	0	81	0
					NOOKSACK RIVER	3	83	79

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

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

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

Olympic Peninsula River Basins



*Based on selected stations

Forecasted average runoff for streamflow for the Dungeness River is 95% and Elwha River is 97%. April runoff in the Dungeness River was 132% of normal. The Wynoochee and Big Quilcene rivers should expect near average runoff this summer as well. April precipitation was 185% of average. Precipitation has accumulated at 135% of average for the water year. April precipitation at Quillayute was 10.11 inches. The thirty-year average for April is 7.44 inches. Olympic Peninsula snowpack averaged 119% of normal on May 1. Temperatures were 1 degree above average for April and 2 degrees above for the water year.

For more information contact your local Natural Resources Conservation Service office.

Olympic Peninsula River Basins

Streamflow Forecasts - May 1, 2010

Forecast Point	Forecast Period	Future Conditions					30-Yr Avg. (1000AF)	
		Drier		Wetter		Chance Of Exceeding * 50% (1000AF) (% AVG.)		
		90% (1000AF)	70% (1000AF)	30% (1000AF)	10% (1000AF)			
DUNGENESS near Sequim	MAY-JUL	81	92	100	95	108	119	105
	MAY-SEP	99	115	125	95	135	151	132
ELWHA near Port Angeles	MAY-JUL	285	310	330	98	350	375	338
	MAY-SEP	350	385	410	97	435	470	423

OLYMPIC PENINSULA RIVER BASINS Reservoir Storage (1000 AF) - End of April					OLYMPIC PENINSULA RIVER BASINS Watershed Snowpack Analysis - May 1, 2010			
Reservoir	Usable Capacity	*** Usable Storage ***			Watershed	Number of Data Sites	This Year as % of	
		This Year	Last Year	Avg			Last Yr	Average
					OLYMPIC PENINSULA	6	170	119

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

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

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

Issued by

Dave White
Chief
Natural Resources Conservation Service
U.S. Department of Agriculture

Released by

Roylene Rides At The Door
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 Sustainable Resources Snow Survey, River Forecast Centre, 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 Recourse Conservation & Development Councils
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 Whatcom County Pierce County Kalispel Tribe of Indians Spokane Indian Tribe Jamestown S'klallum Tribe
Private	Okanogan Irrigation District Wenatchee Heights Irrigation District Newman Lake Homeowners Association Whitestone Reclamation District

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



Washington Snow Survey Office
2021 E. College Way, Suite 214
Mount Vernon, WA 98273-2873



Washington Water Supply Outlook Report

Natural Resources Conservation Service
Spokane, WA

