Report Created:
2/20/2020 1:01:57 PM

Streamflow Forecast Summary: February 1, 2020
(averages based on 1981-2010 reference period)

Spokane	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
Spokane R nr Post Falls[2]								
	APR-JUL	1550	2120	2500	105%	2890	3460	2390
	APR-SEP	1630	2200	2590	104%	2980	3550	2480
Spokane R at Long Lake[2]								
	APR-JUL	1810	2390	2780	106%	3180	3760	2620
	APR-SEP	1990	2580	2990	105%	3390	3980	2850
Chamokane Ck nr Long Lake								
	MAR-JUL	19.9	30	38	146%	47	62	26

1) 90% and 10% exceedance probabilities are actually 95% and 5%
2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
3) Median value used in place of average

Pend Oreille Basins	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
Pend Oreille Lake Inflow[2]								
	APR-JUL	9240	11300	12600	107%	14000	16000	11800
	APR-SEP	10100	12200	13600	106%	15100	17200	12800
Priest R nr Priest River[2]								
	APR-JUL	665	825	935	120%	1040	1200	780
	APR-SEP	725	890	1000	120%	1120	1280	830
Pend Oreille R bl Box Canyon[2]								
	APR-JUL	9400	11400	12700	107%	14100	16100	11900
	APR-SEP	10200	12300	13800	106%	15200	17300	13000

1) 90% and 10% exceedance probabilities are actually 95% and 5%
2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
3) Median value used in place of average

Upper Columbia Basins	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
Kettle R nr Laurier								
	APR-JUL	1610	1860	2040	113%	2210	2470	1800
	APR-SEP	1670	1940	2120	113%	2300	2570	1880
Colville R at Kettle Falls								
	APR-JUL	102	145	174	146%	205	245	119
	APR-SEP	110	157	189	144%	220	270	131
Columbia R at Grand Coulee[1,2]								
	APR-JUL	48800		57000	112%		63300	51015
	APR-SEP	58500		66600	111%		74800	60110
Similkameen R nr Nighthawk[1]								
	APR-JUL	900	1090	1230	103%	1360	1550	1200
	APR-SEP	965	1170	1310	102%	1450	1650	1280
Okanogan R nr Tonasket[1]								
	APR-JUL	1080	1360	1560	105%	1750	2040	1480
	APR-SEP	1200	1520	1730	105%	1950	2270	1650
Okanogan R at Malott[1]								
	APR-JUL	1100	1390	1590	110%	1790	2080	1450
	APR-SEP	1210	1540	1760	109%	1980	2300	1620
Methow R nr Pateros								
	APR-JUL	505	665	775	93%	885	1050	835
	APR-SEP	540	715	830	93%	950	1120	895

Columbia R at Birchbank[1,2]

1) 90% and 10% exceedance probabilities are actually 95% and 5%
2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
3) Median value used in place of average

		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
Central Columbia Basins	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Stehekin R at Stehekin								
	APR-JUL	570	650	705	104%	760	840	680
	APR-SEP	660	755	815	103%	880	970	790
Chelan R at Chelan								
	APR-JUL	835	955	1040	104%	1120	1240	1000
	APR-SEP	915	1060	1160	104%	1260	1410	1120
Entiat R nr Ardenvoir								
	APR-JUL	154	186	205	103%	230	260	200
	APR-SEP	165	200	225	102%	250	285	220
Wenatchee R at Plain								
	APR-JUL	755	895	990	100%	1090	1230	990
	APR-SEP	830	990	1100	102%	1210	1370	1080
Icicle Ck nr Leavenworth								
	APR-JUL	215	255	285	104%	315	355	275
	APR-SEP	235	285	315	105%	345	395	300
Wenatchee R at Peshastin								
	APR-JUL	1090	1260	1380	101%	1500	1680	1370
	APR-SEP	1160	1370	1510	101%	1640	1850	1490
Columbia R bl Rock Island Dam[2]								
	APR-JUL	52800		62100	111%		69500	55770
	APR-SEP	62500		72200	111%		82300	65200

1) 90% and 10% exceedance probabilities are actually 95% and 5%
2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
3) Median value used in place of average

		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
Upper Yakima River	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Keechelus Reservoir Inflow[2]								
	APR-JUL	73	96	112	97%	128	151	116
	APR-SEP	80	104	121	96%	138	162	126
Kachess Reservoir Inflow [2]								
	APR-JUL	65	85	98	94%	111	131	104
	APR-SEP	77	97	111	98%	125	145	113
Cle Elum Lake Inflow [2]								
	APR-JUL	270	325	365	95%	405	460	385
	APR-SEP	285	350	390	94%	430	495	415
Yakima R at Cle Elum [2]								
Teanaway R bl Forks nr Cle Elum								
	APR-JUL	67	99	120	92%	141	173	130
	APR-SEP	70	101	123	92%	145	176	133

1) 90% and 10% exceedance probabilities are actually 95% and 5%
2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
3) Median value used in place of average

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

Lower Yakima River	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Bumping Lake Inflow [2]								
	APR-JUL	91	108	120	105%	132	149	114
	APR-SEP	97	117	130	106%	143	163	123
American R nr Nile								
	APR-JUL	83	98	108	106%	118	133	102
	APR-SEP	91	108	117	106%	132	149	110
Rimrock Lake Inflow [2]								
	APR-JUL	154	178	194	104%	210	235	187
	APR-SEP	180	210	230	105%	250	280	220
Naches R nr Naches								
	APR-JUL	535	665	755	108%	845	975	700
	APR-SEP	575	725	825	109%	925	1070	760
Ahtanum Ck at Union Gap								
	APR-JUL	12.9	22	28	104%	34	42	27
	APR-SEP	14.8	24	30	103%	36	45	29
Yakima R nr Parker [2]								
	APR-JUL	1160	1460	1660	100%	1860	2160	1660
	APR-SEP	1250	1570	1790	98%	2010	2330	1820
Klickitat R nr Glenwood								
	APR-JUL	99	123	139	110%	155	179	126
	APR-SEP	109	135	153	110%	171	197	139
Klickitat R nr Pitt								
	APR-JUL	365	440	490	113%	540	615	435
	APR-SEP	445	530	590	113%	650	735	520

1) 90% and 10% exceedance probabilities are actually 95% and 5%
2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
3) Median value used in place of average

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

Walla Walla River	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
SF Walla Wall R nr Milton-Freewater								
	MAR-JUL	51	61	67	99%	73	82	68
	APR-SEP	50	59	65	98%	71	80	66
Mill Ck nr Walla Walla								
	APR-JUL	16.5	20	23	96%	25	29	24
	APR-SEP	19.5	23	26	96%	29	33	27

1) 90% and 10% exceedance probabilities are actually 95% and 5%
2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
3) Median value used in place of average

Forecast Exceedance Probabilities for Risk Assessment
Chance that actual volume will exceed forecast

Lower Snake, Grande Ronde, Clearwater Basins	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Grande Ronde R at Troy								
	MAR-JUL	1140	1390	1550	103%	1720	1970	1510
	APR-SEP	950	1180	1340	102%	1500	1730	1310
Asotin Ck at Asotin								
	APR-JUL	13.5	21	28	80%	35	47	35
Clearwater R at Spalding[2]								
	APR-JUL	4970	6110	6880	100%	7660	8800	6890
	APR-SEP	5290	6460	7250	100%	8040	9210	7270
Snake R bl Lower Granite Dam[12]								
	APR-JUL	15300		19400	98%		23200	19848
	APR-SEP	17300		21800	98%		25900	22280

1) 90% and 10% exceedance probabilities are actually 95% and 5%

2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
3) Median value used in place of average

		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
Lower Columbia Basins	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Columbia R at The Dalles[2]								
	APR-JUL	73100		83600	105%		96000	79855
	APR-SEP	86200		98500	106%		111000	92704
Klickitat R nr Glenwood								
	APR-JUL	99	123	139	110%	155	179	126
	APR-SEP	109	135	153	110%	171	197	139
Klickitat R nr Pitt								
	APR-JUL	365	440	490	113%	540	615	435
	APR-SEP	445	530	590	113%	650	735	520
Lewis R at Ariel[2]								
	APR-JUL	630	800	920	95%	1040	1210	970
	APR-SEP	725	910	1030	92%	1160	1340	1120
Cowlitz R bl Mayfiled[2]								
	APR-JUL	1270	1470	1610	99%	1740	1940	1630
	APR-SEP	1520	1750	1900	103%	2060	2300	1840
Cowlitz R at Castle Rock[2]								
	APR-JUL	1830	2060	2220	99%	2380	2600	2240
	APR-SEP	2430	2550	2630	104%	2710	2830	2540

1) 90% and 10% exceedance probabilities are actually 95% and 5%
2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
3) Median value used in place of average

		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
South Puget Sound Basins	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
White R nr Buckley[1,2]								
	APR-JUL	360	440	470	109%	505	585	430
	APR-SEP	435	525	565	110%	605	695	515
Green R bl Howard A Hanson Dam[1,2]								
	APR-JUL	128	194	225	96%	255	320	235
	APR-SEP	149	215	245	94%	275	345	260

1) 90% and 10% exceedance probabilities are actually 95% and 5%
2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
3) Median value used in place of average

		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
Central Puget Sound Basins	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Cedar R nr Cedar Falls								
	APR-JUL	53	64	71	101%	79	90	70
	APR-SEP	60	71	78	103%	86	97	76
Rex R nr Cedar Falls								
	APR-JUL	16.3	21	25	104%	28	33	24
	APR-SEP	18.6	24	27	100%	30	35	27
Taylor Ck nr Selleck								
SF Tolt R nr Index								
	APR-JUL	13.7	16	17.6	124%	19.2	21	14.2
	APR-SEP	15.3	17.8	19.5	121%	21	24	16.1

1) 90% and 10% exceedance probabilities are actually 95% and 5%

2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
3) Median value used in place of average

		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
North Puget Sound Basins	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Thunder Ck nr Newhalem								
	APR-JUL	205	225	235	100%	245	265	235
	APR-SEP	305	325	335	102%	350	370	330
Skagit R at Newhalem[2]								
	APR-JUL	1670	1810	1900	109%	1990	2130	1750
	APR-SEP	1980	2140	2240	108%	2340	2500	2070
Baker R at Concrete								
	APR-JUL	670	755	810	104%	865	950	780
	APR-SEP	875	970	1030	105%	1090	1180	980

1) 90% and 10% exceedance probabilities are actually 95% and 5%
2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
3) Median value used in place of average

		Forecast Exceedance Probabilities for Risk Assessment Chance that actual volume will exceed forecast						
Olympic Penninsula	Forecast Period	90% (KAF)	70% (KAF)	50% (KAF)	% Avg	30% (KAF)	10% (KAF)	30yr Avg (KAF)
Dungeness R nr Sequim								
	APR-JUL	106	118	126	105%	134	146	120
	APR-SEP	127	143	153	106%	163	179	145
Elwha R at McDonald Bridge nr Port Angeles								
	APR-JUL	360	400	425	106%	455	495	400
	APR-SEP	420	470	505	107%	535	585	470

1) 90% and 10% exceedance probabilities are actually 95% and 5%
2) Forecasts are for unimpaired flows. Actual flow will be dependent on management of upstream reservoirs and diversions
3) Median value used in place of average