

Water Supply Outlook Spring/Summer 2019

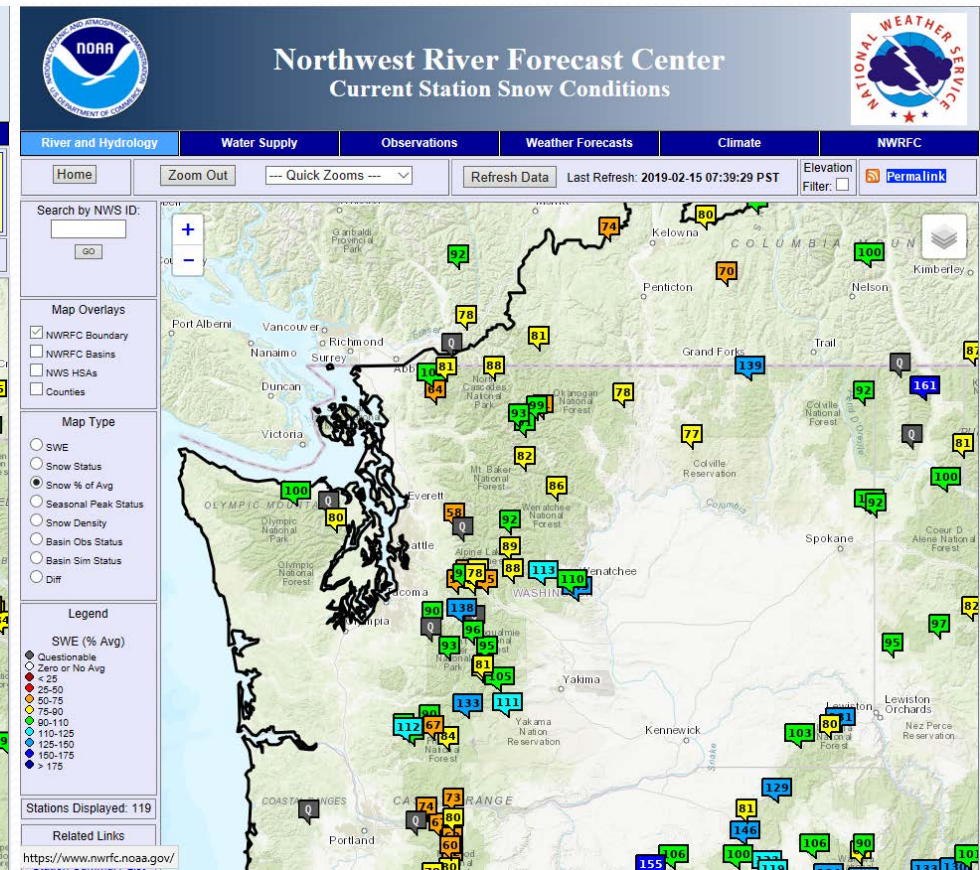
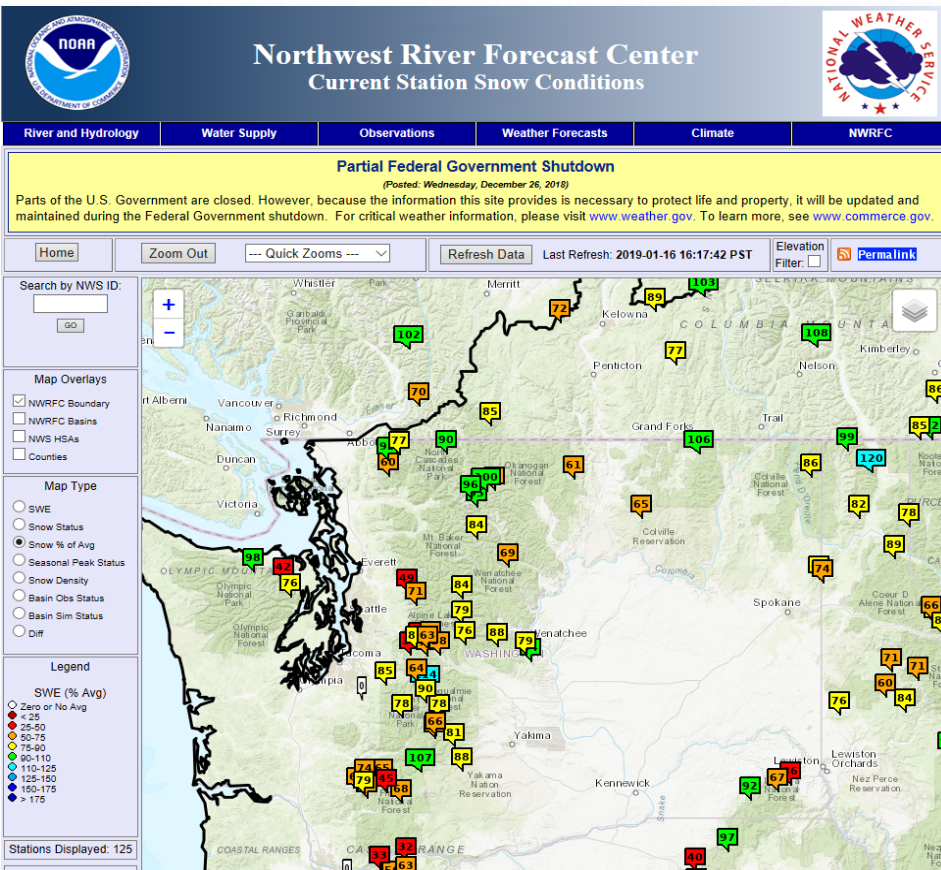
WSAC February 15 , 2019

Brent Bower NWS

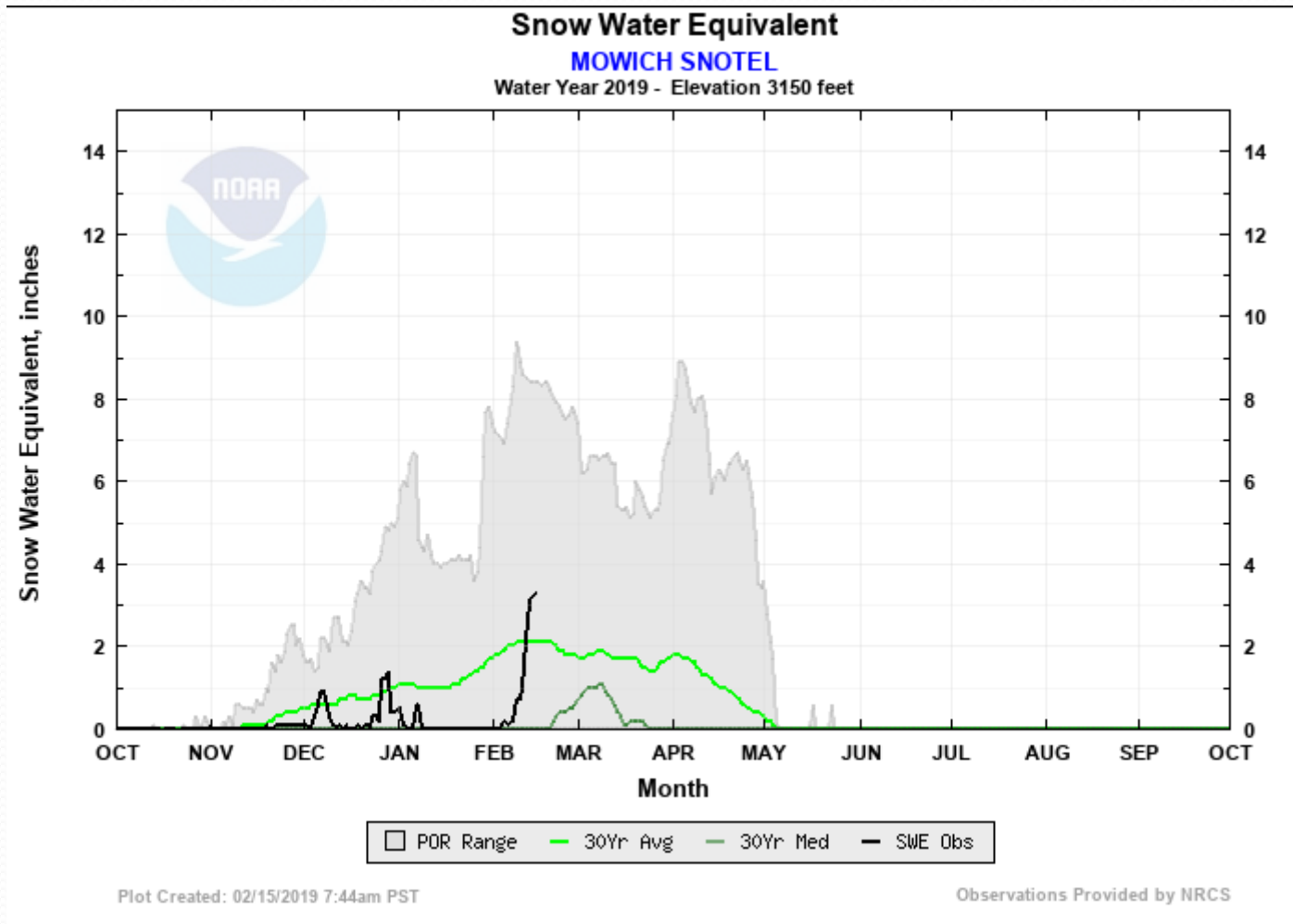
NWS Water Supply Forecasts

- Most locations showing near normal water volumes, but varies from well below to well above
- Almost all locations showing above 85% to 100% of normal water volumes
- Methow and Palouse areas are exceptions with low 70s% of normal
- Snow pack generally below normal to normal but varies widely from much below to much above normal
- Outlook is mixed for water supply
 - Warmer than normal likely
 - Precipitation equal chances of above or below

Big Improvements Over Last Month



Questionable Data Shows Changes





Northwest River Forecast Center Water Supply Forecasts



River and Hydrology

Water Supply

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ESP Issued: 2019-02-14

Ensemble Date: 2019-02-14

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Map Overlays

- ☒ NWRFC Boundary
- ☐ NWRFC Basins
- ☐ NWS HSAs
- ☐ Counties

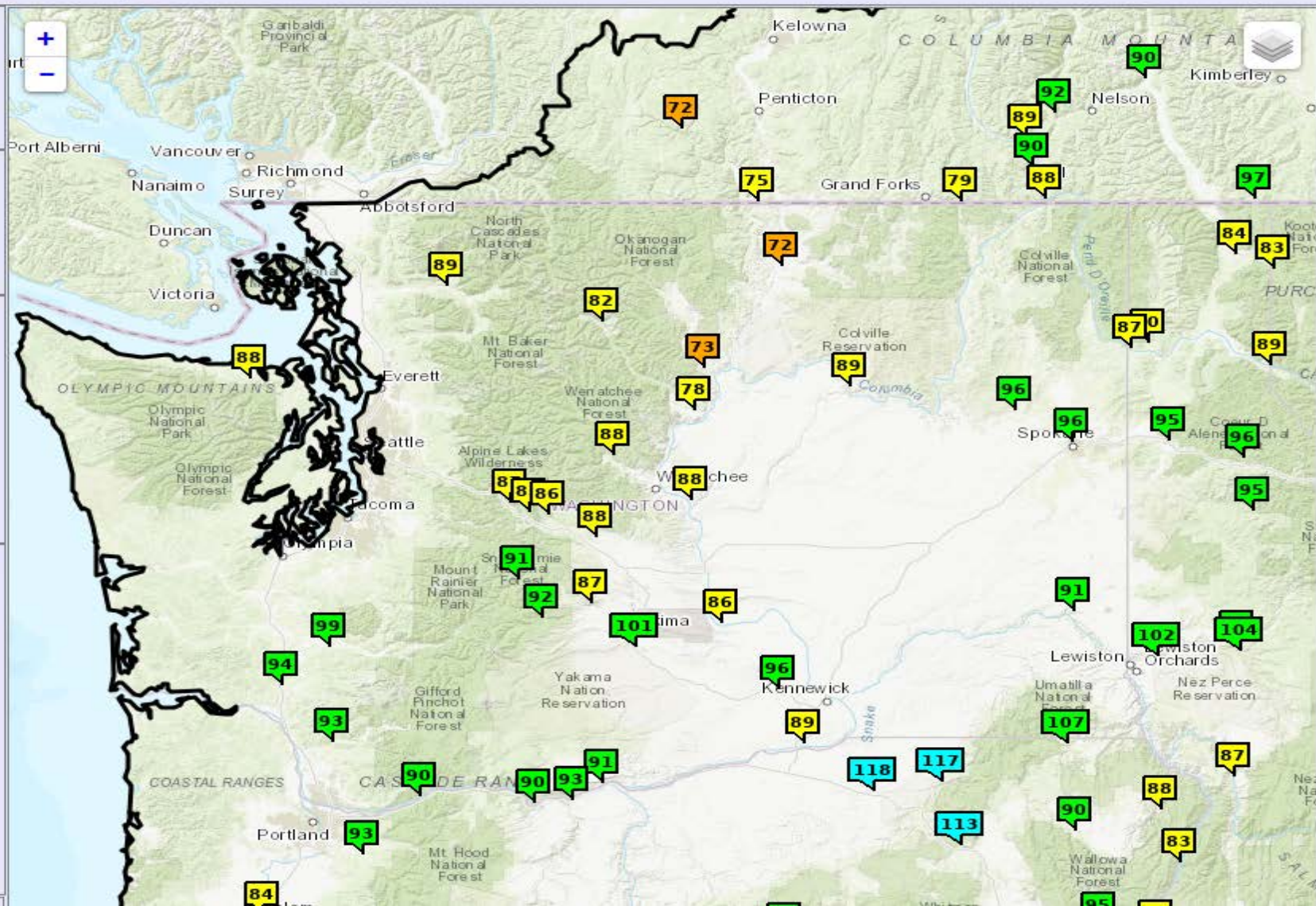
ESP WS Volumes

- ☐ Status
- ☒ Percent of Normal
- ☐ Rank (ASC)
- ☐ Rank (DESC)
- ☐ Exceedance (%)
- ☐ Percentile (%)
- ☐ Runoff Status
- ☐ Runoff % of Normal

Water Supply Forecast

Period: APR-SEP
(% Normal)

- ☐ No Normal, No data
- ☐ < 25
- ☐ 25-50
- ☐ 50-75
- ☐ 75-90
- ☐ 90-110
- ☐ 110-125
- ☐ 125-150
- ☐ 150-175
- ☐ > 175





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ESP Natural Forecast



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Map Overlays

- ☒ NWRFC Boundary
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ESP Natural Forecast

- ☐ Status
- ☒ Percent of Normal
- ☐ Rank (ASC)
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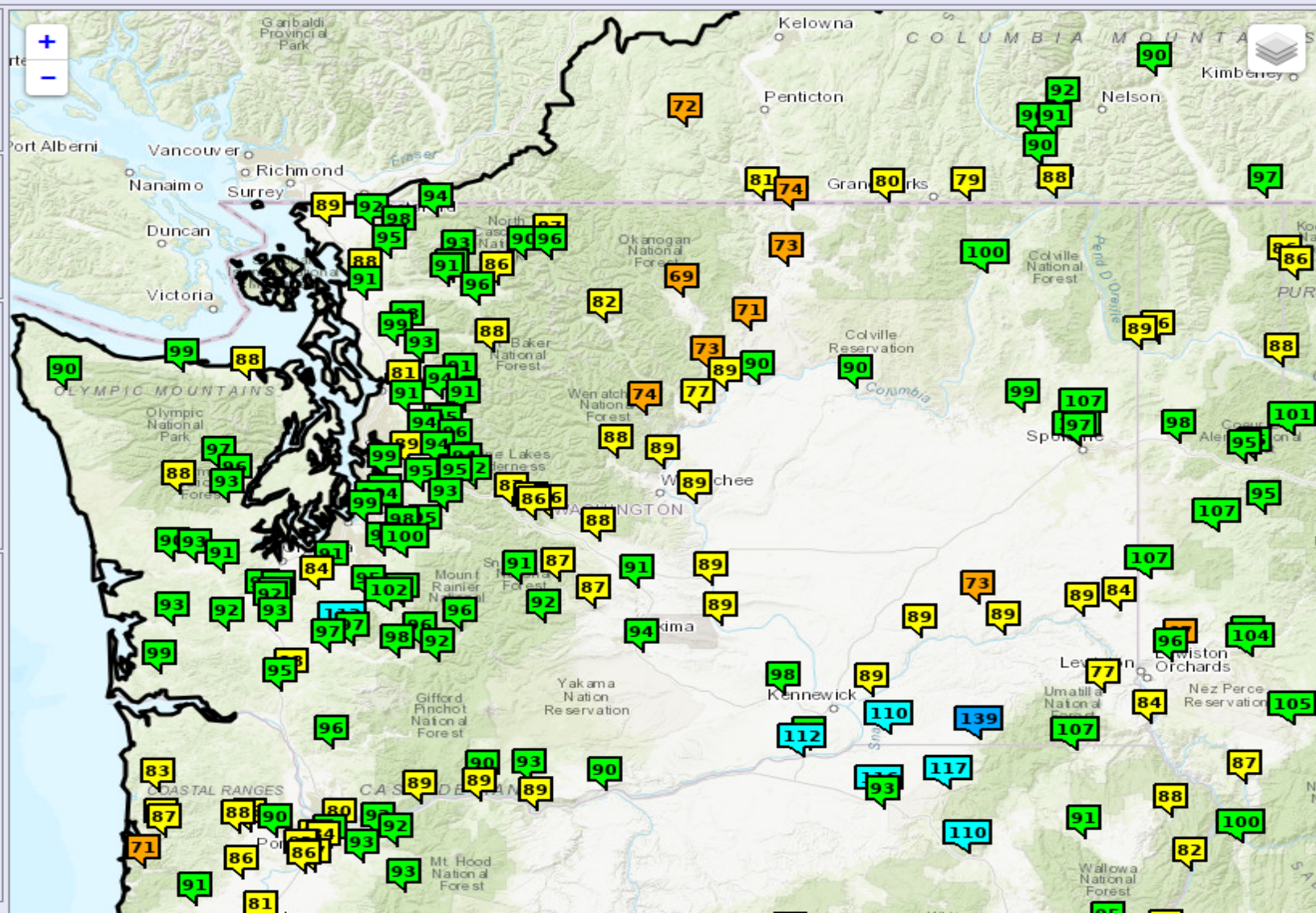
ESP Natural Forecast

Period: APR-SEP
Forecast (% Normal)

- ☐ No Normal, No Data
- ☐ < 25
- ☐ 25-50
- ☐ 50-75
- ☐ 75-90
- ☐ 90-110
- ☐ 110-125
- ☐ 125-150
- ☐ 150-175
- ☐ > 175



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YAKIMA - AT KIONA (KIOW1) Forecasts for Water Year 2019

ESP Natural Forecast

10 days QPF: Ensemble: 2019-02-14 Issued: 2019-02-14

Forecasts Are in KAF

Forecast Period	Forecasts Are in KAF				30 Year Average (1981-2010)
	90 %	50 %	% Average	10 %	
APR-SEP	1895	2166	98	2542	2201
APR-JUL	1563	1880	95	2304	1976
JAN-SEP	2582	2851	88	3295	3224
JAN-JUL	2297	2576	86	3047	3000
OCT-SEP	3116	3385	88	3830	3827

5 days QPF: Ensemble: 2019-02-14 Issued: 2019-02-14

APR-SEP	1859	2130	97	2535	2201
APR-JUL	1541	1827	92	2315	1976
JAN-SEP	2590	2878	89	3411	3224
JAN-JUL	2255	2593	86	3182	3000
OCT-SEP	3124	3412	89	3945	3827

0 days QPF: Ensemble: 2019-02-14 Issued: 2019-02-14

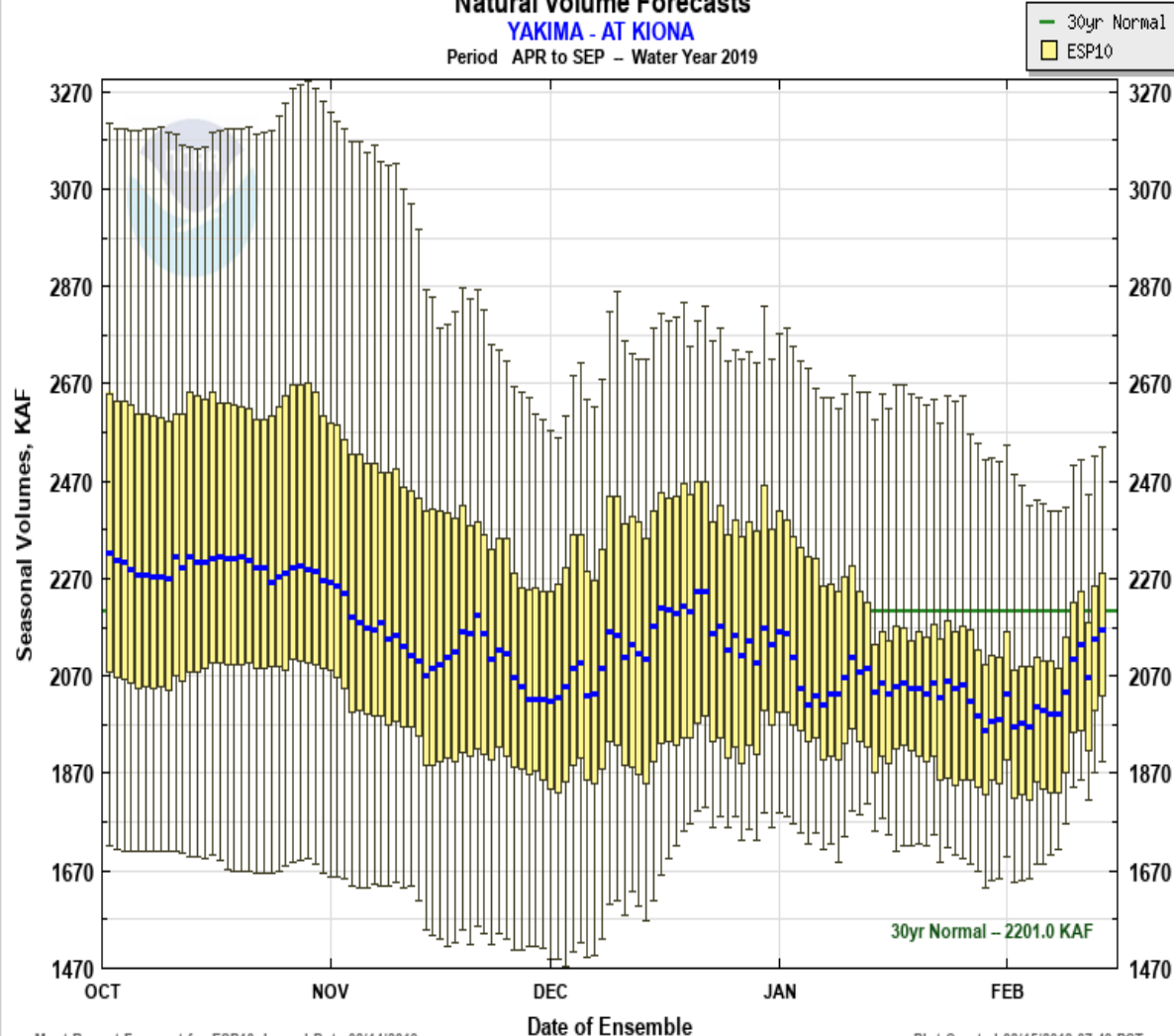
APR-SEP	1795	2121	96	2632	2201
APR-JUL	1491	1852	94	2391	1976
JAN-SEP	2564	2926	91	3509	3224
JAN-JUL	2256	2649	88	3263	3000
OCT-SEP	3099	3460	90	4044	3827

Move the mouse over the desired "Forecast Period" to display a graph.

Natural Volume Forecasts

YAKIMA - AT KIONA

Period APR to SEP - Water Year 2019





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METHOW - NEAR PATEROS (PATW1) Forecasts for Water Year 2019

ESP Natural Forecast

☐ 10 days QPF: Ensemble: 2019-02-14 Issued: 2019-02-14

Forecast Period	Forecasts Are in KAF				30 Year Average (1981-2010)
	90 %	50 %	% Average	10 %	
APR-SEP	449	652	73	817	895
APR-JUL	405	599	72	752	833
JAN-SEP	520	727	74	885	985
JAN-JUL	474	673	73	828	923
OCT-SEP	595	802	75	960	1075

☐ 5 days QPF: Ensemble: 2019-02-14 Issued: 2019-02-14

APR-SEP	462	675	75	849	895
APR-JUL	409	623	75	781	833
JAN-SEP	527	748	76	916	985
JAN-JUL	477	695	75	852	923
OCT-SEP	602	823	77	991	1075

☐ 0 days QPF: Ensemble: 2019-02-14 Issued: 2019-02-14

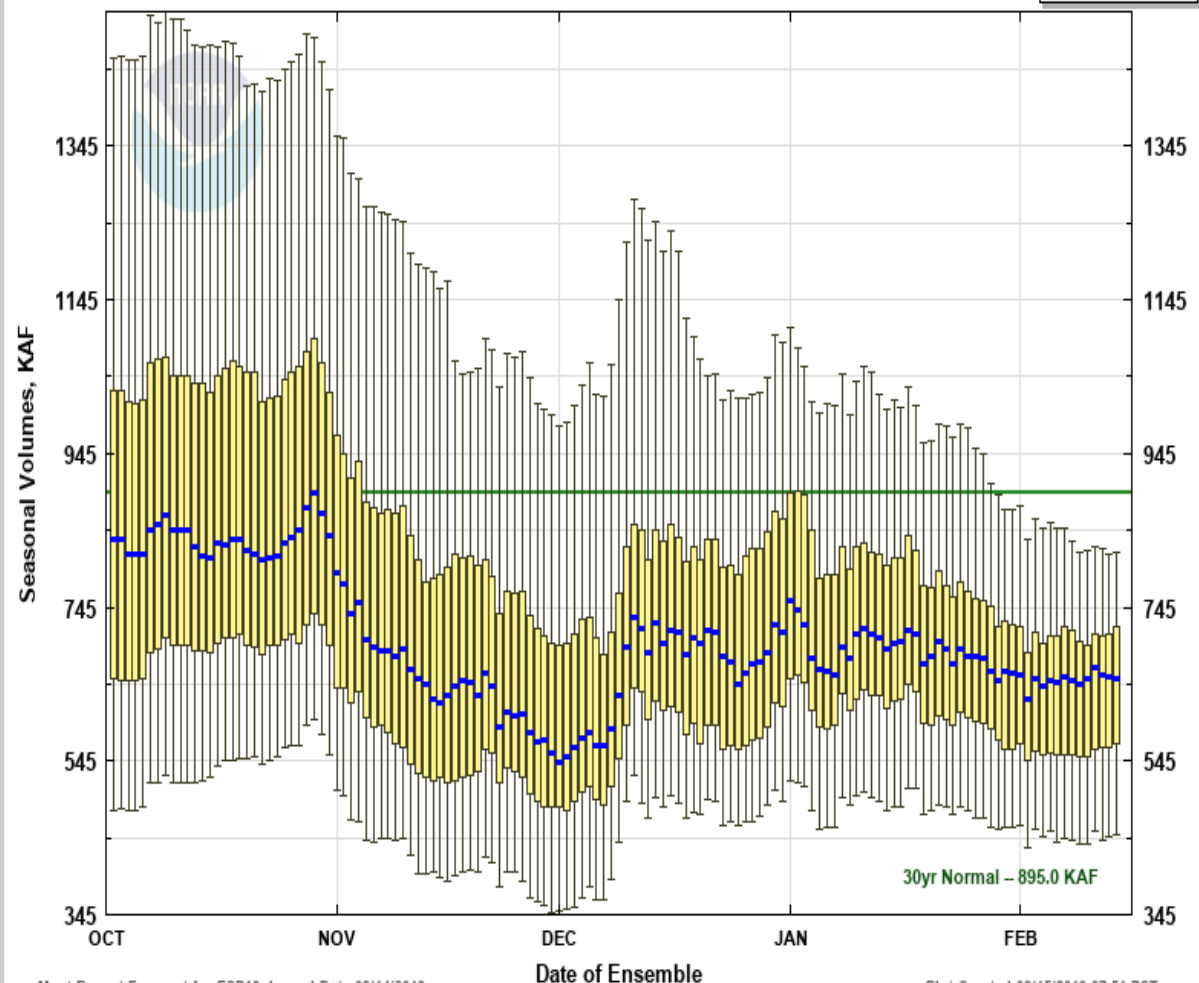
APR-SEP	486	683	76	895	895
APR-JUL	432	636	76	824	833
JAN-SEP	551	756	77	967	985
JAN-JUL	497	708	77	897	923
OCT-SEP	626	831	77	1042	1075

Move the mouse over the desired "Forecast Period" to display a graph.

Natural Volume Forecasts

METHOW - NEAR PATEROS

Period APR to SEP - Water Year 2019





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COLUMBIA - THE DALLES DAM (TDAO3) Forecasts for Water Year 2019

ESP Natural Forecast

10 days QPF: Ensemble: 2019-02-14 Issued: 2019-02-14

Forecasts Are in KAF

Forecast Period	90 %	50 %	% Average	10 %	30 Year Average (1981-2010)
APR-SEP	75319	85708	89	95056	96012
APR-JUL	61131	70055	85	79374	82019
APR-AUG	69823	79285	88	89593	90465
JAN-SEP	89442	100257	86	111054	116431
JAN-JUL	75332	84130	82	96044	102438
OCT-SEP	102950	113764	86	124561	132349

5 days QPF: Ensemble: 2019-02-14 Issued: 2019-02-14

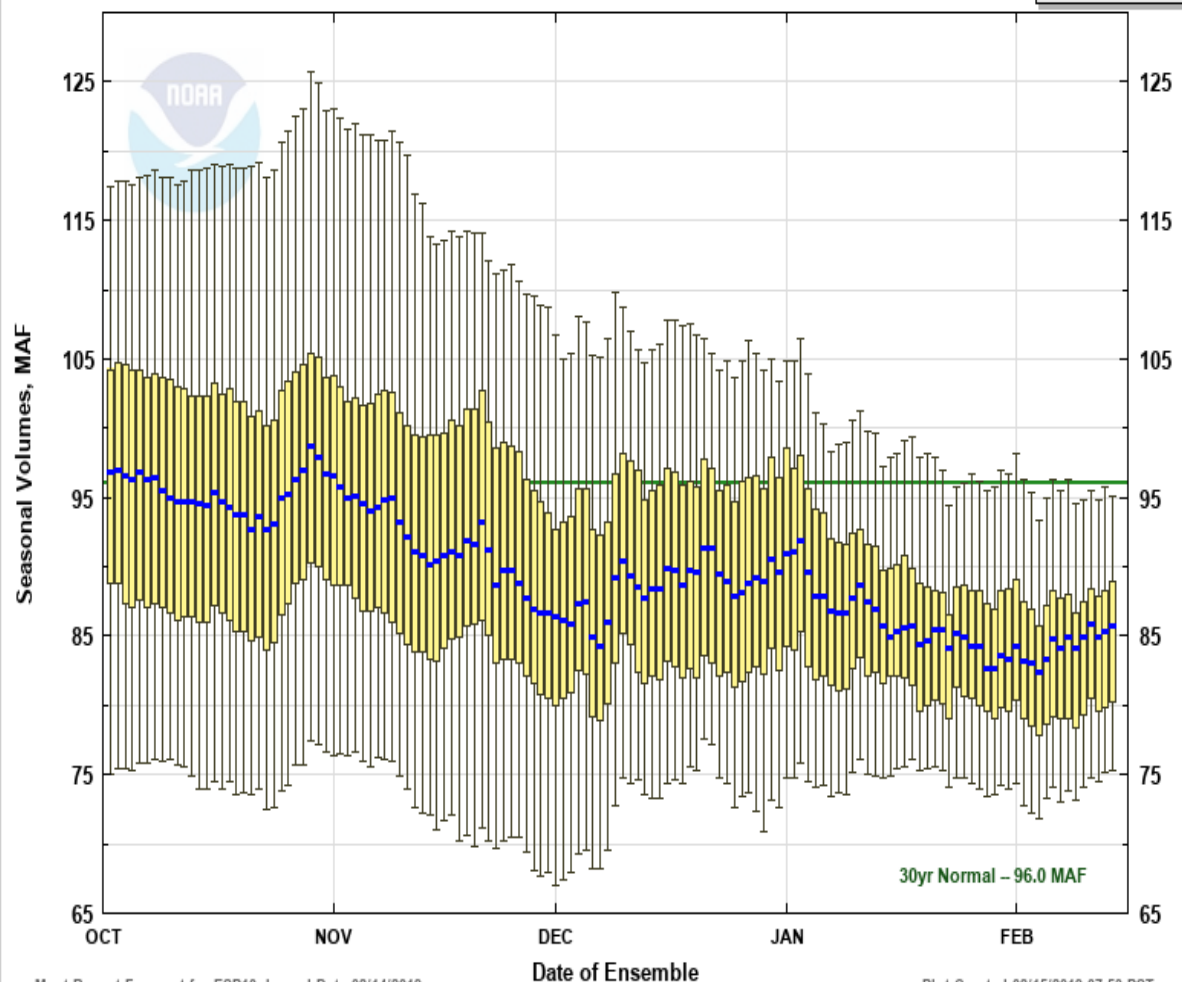
APR-SEP	75477	86619	90	97362	96012
APR-JUL	61120	70714	86	79855	82019
APR-AUG	69979	80795	89	90775	90465
JAN-SEP	89578	101476	87	113380	116431
JAN-JUL	76097	86083	84	97669	102438
OCT-SEP	103085	114983	87	126886	132349

0 days QPF: Ensemble: 2019-02-14 Issued: 2019-02-14

APR-SEP	74984	85719	89	98035	96012
APR-JUL	60721	70333	86	81833	82019
APR-AUG	69578	79474	88	91927	90465
JAN-SEP	88487	100589	86	115585	116431
JAN-JUL	74794	85405	83	101162	102438
OCT-SEP	101994	114097	86	129092	132349

Move the mouse over the desired "Forecast Period" to display a graph.

Natural Volume Forecasts COLUMBIA - THE DALLES DAM Period APR to SEP - Water Year 2019





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CALAWAH - NEAR FORKS (CALW1) Forecasts for Water Year 2019

ESP Natural Forecast

10 days QPF: Ensemble: 2019-02-14 Issued: 2019-02-14

Forecasts Are in KAF

Forecast Period	Forecasts Are in KAF				30 Year Average (1981-2010)
	90 %	50 %	% Average	10 %	
APR-SEP	107	143	90	209	158
APR-JUL	86	121	88	193	138
JAN-SEP	368	434	90	530	485
JAN-JUL	345	406	88	506	464
OCT-SEP	709	776	99	871	782

5 days QPF: Ensemble: 2019-02-14 Issued: 2019-02-14

APR-SEP	106	139	88	208	158
APR-JUL	85	119	87	191	138
JAN-SEP	364	435	90	552	485
JAN-JUL	350	416	90	529	464
OCT-SEP	705	777	99	894	782

0 days QPF: Ensemble: 2019-02-14 Issued: 2019-02-14

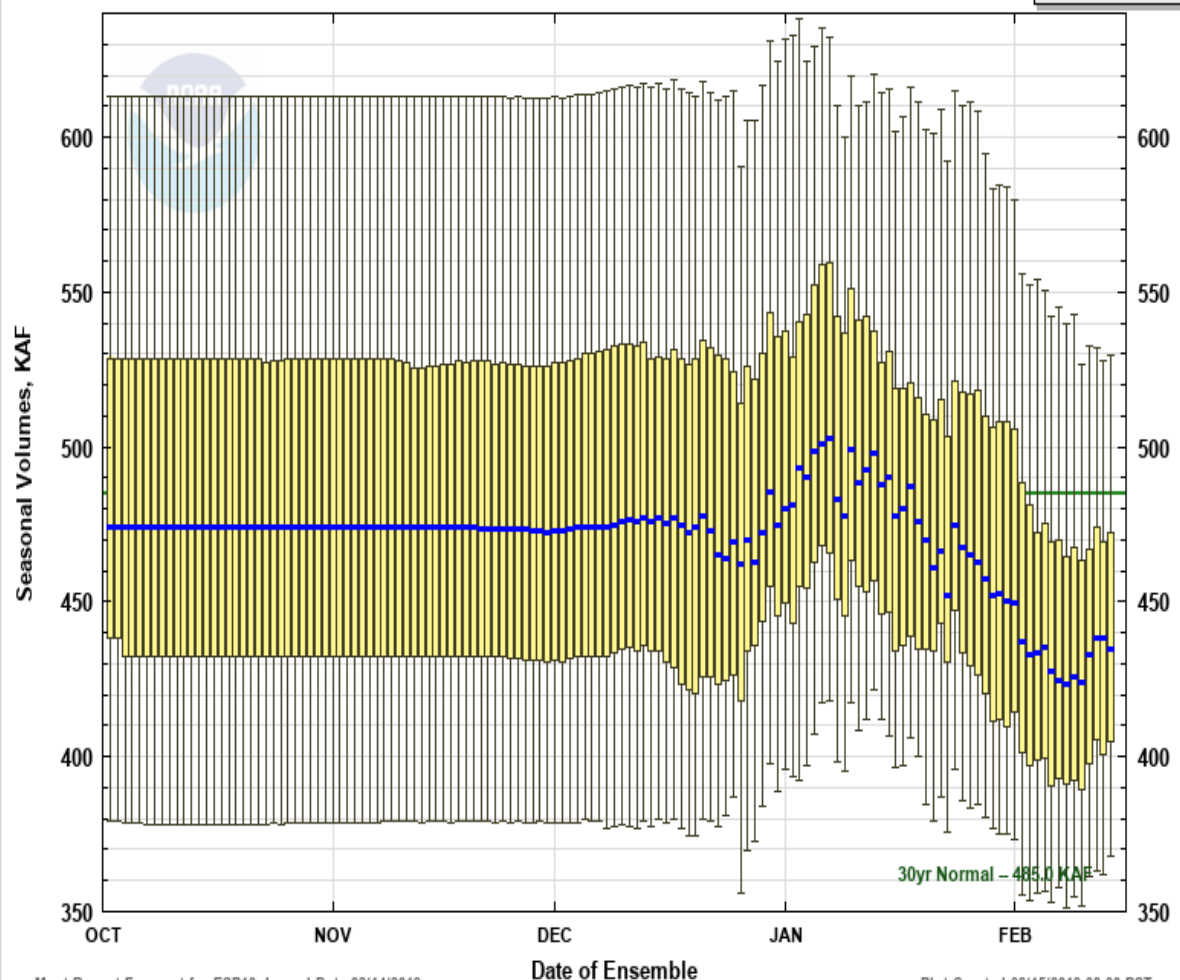
APR-SEP	106	139	88	208	158
APR-JUL	84	120	87	190	138
JAN-SEP	373	450	93	571	485
JAN-JUL	355	433	93	546	464
OCT-SEP	714	792	101	913	782

Move the mouse over the desired "Forecast Period" to display a graph.

Natural Volume Forecasts

CALAWAH - NEAR FORKS

Period JAN to SEP - Water Year 2019





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SKAGIT - NEAR CONCRETE (CONW1) Forecasts for Water Year 2019

ESP Natural Forecast

10 days QPF: Ensemble: 2019-02-14 Issued: 2019-02-14

Forecasts Are in KAF

Forecast Period	Forecasts Are in KAF				30 Year Average (1981-2010)
	90 %	50 %	% Average	10 %	
APR-SEP	4642	5323	91	6454	5852
APR-JUL	3809	4352	90	5320	4860
JAN-SEP	6420	7105	88	8390	8096
JAN-JUL	5563	6201	87	7335	7105
OCT-SEP	8922	9607	90	10893	10627

5 days QPF: Ensemble: 2019-02-14 Issued: 2019-02-14

APR-SEP	4569	5328	91	6404	5852
APR-JUL	3703	4278	88	5306	4860
JAN-SEP	6390	7102	88	8376	8096
JAN-JUL	5525	6192	87	7325	7105
OCT-SEP	8892	9604	90	10878	10627

0 days QPF: Ensemble: 2019-02-14 Issued: 2019-02-14

APR-SEP	4634	5315	91	6545	5852
APR-JUL	3793	4377	90	5330	4860
JAN-SEP	6581	7379	91	8857	8096
JAN-JUL	5629	6395	90	7578	7105
OCT-SEP	9083	9881	93	11360	10627

Move the mouse over the desired "Forecast Period" to display a graph.

Natural Volume Forecasts

SKAGIT - NEAR CONCRETE

Period APR to SEP - Water Year 2019

