

The July final WSF sets BiOp actions as defined in table below.
Other projects provided for informational purposes only.

Forecast Point	Forecast Period	Forecast	BiOp Actions to be Determined
Hungry Horse	April – August Provided by Reclamation	January, February, March Final	Sets min. flows at Hungry Horse and Columbia Falls
	May – September Provided by Reclamation	January, February, March Final	Sets VARQ FRM targets
		April Final	Sets VARQ FRM targets and VARQ refill flows
		May, June Final	Sets VARQ refill flows
The Dalles	April – August Provided by NWRFC	April Final	Sets spring flow objective at McNary Dam
		May Final	Sets end of September draft limits at Hungry Horse and Libby
		July Final	Sets end of August draft limit at Grand Coulee
Lower Granite	April – July Provided by NWRFC	April Final	Sets spring flow objective at Lower Granite
		June Final	Sets summer flow objective at Lower Granite
Libby	April – August Provided by Corps Seattle District	December Final	Sets end of December variable draft target
		January, February, March Final	Sets VARQ FRM targets
		April Final	Sets VARQ FRM targets and VARQ refill flows
		May Final	Sets Libby min. sturgeon flow volume and min. bull trout flows for after sturgeon pulse through Sept. Sets VARQ FRM targets and VARQ refill flows
		June Final	VARQ refill flows
Dworshak	April – July Provided by Corps Walla Walla District	January through June Final	Manage for reservoir FRM and refill

The Hungry Horse Dam JULY forecast is not used for implementation of BiOp actions.
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SF FLATHEAD - HUNGRY HORSE DAM (HHWM8)
Forecasts for Water Year 2015

Official Forecast
☐ 10 days QPF: **Ensemble: 2015-07-08** Issued: 2015-07-08

Forecast Period	Forecasts Are in KAF				30 Year Average (1981-2010)
	90 %	50 %	% Average	10 %	
APR-SEP	1282	1285	65	1305	1988
APR-JUL	1203	1204	64	1204	1871
APR-AUG	1246	1246	64	1253	1936
JAN-SEP	1974	1977	89	1996	2215
JAN-JUL	1895	1895	90	1896	2098
OCT-SEP	2273	2276	93	2296	2447

☐ 5 days QPF: **Ensemble: 2015-07-08** Issued: 2015-07-08

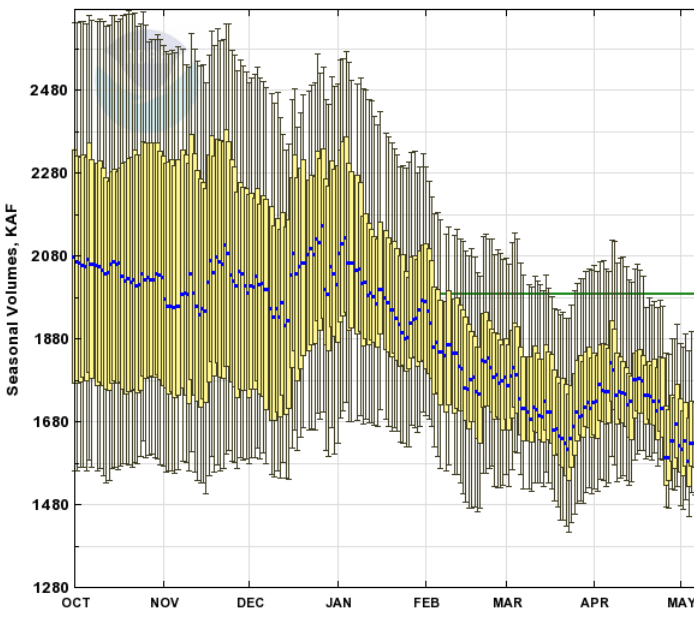
APR-SEP	1282	1286	65	1305	1988
APR-JUL	1203	1204	64	1206	1871
APR-AUG	1246	1247	64	1253	1936
JAN-SEP	1974	1977	89	1997	2215
JAN-JUL	1895	1895	90	1897	2098
OCT-SEP	2273	2277	93	2296	2447

☐ 0 days QPF: **Ensemble: 2015-07-08** Issued: 2015-07-08

APR-SEP	1281	1288	65	1315	1988
APR-JUL	1203	1204	64	1215	1871
APR-AUG	1246	1247	64	1264	1936
JAN-SEP	1973	1979	89	2007	2215
JAN-JUL	1895	1896	90	1907	2098
OCT-SEP	2272	2279	93	2306	2447

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

Water Supply Forecasts
SF FLATHEAD - HUNGRY HORSE DAM
 Period: APR to SEP -- Water Year 2015



Most Recent Forecast for ESP10: Issued Date 07/08/2015

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Overlay
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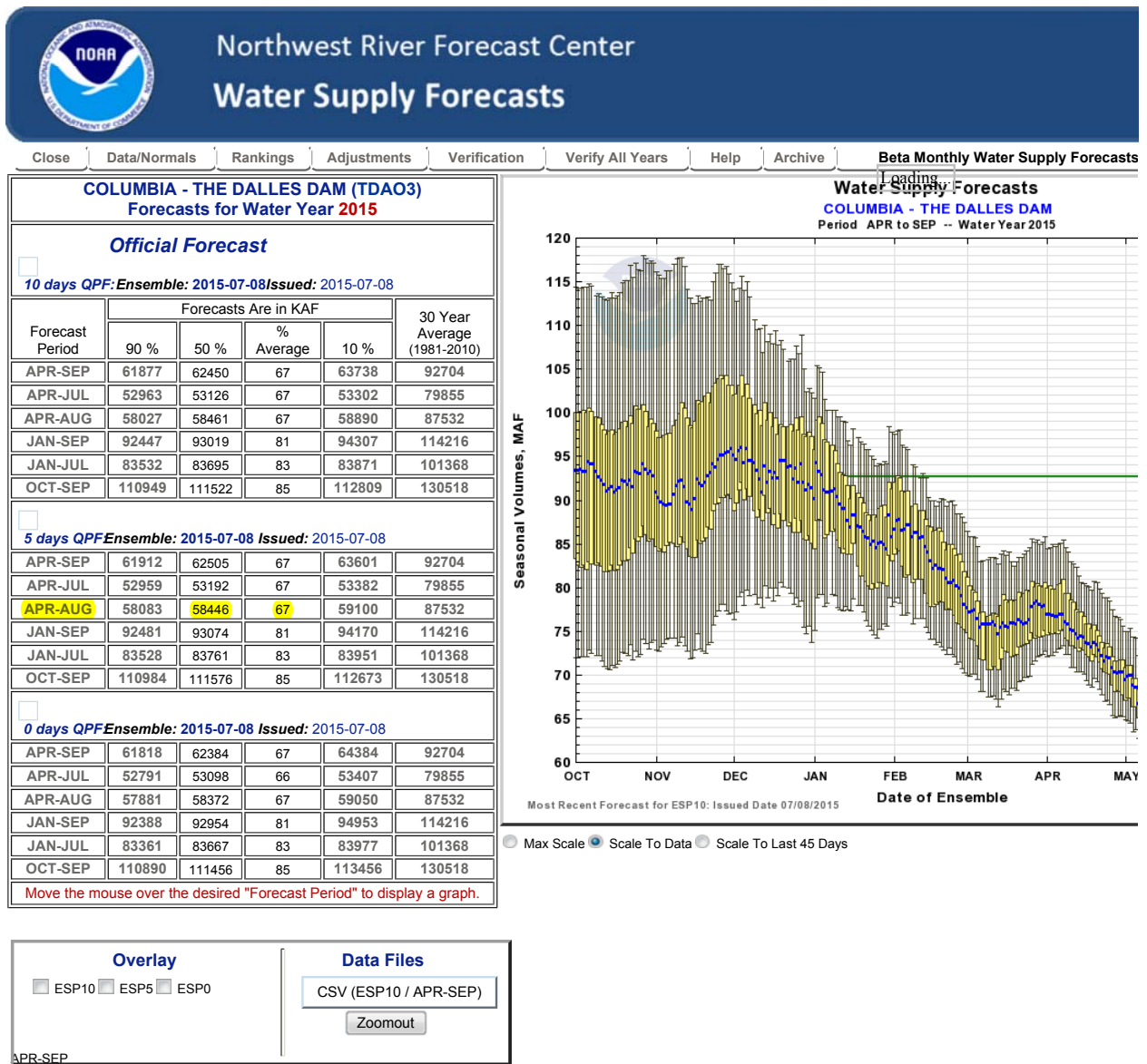
Data Files

CSV (ESP10 / APR-SEP)

Zoomout

APR-SEP





The Lower Granite Dam JULY forecast is not used for implementation of BiOp actions.
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SNAKE - LOWER GRANITE DAM (LGDW1)
Forecasts for Water Year 2015

Official Forecast
☐ **10 days QPF Ensemble: 2015-07-08 Issued: 2015-07-08**

Forecast Period	Forecasts Are in KAF				30 Year Average (1981-2010)
	90 %	50 %	% Average	10 %	
APR-SEP	11560	11594	52	11702	22279
APR-JUL	10211	10216	51	10226	19848
APR-AUG	10815	10837	51	10877	21091
JAN-SEP	19873	19907	67	20016	29872
JAN-JUL	18524	18530	68	18539	27440
OCT-SEP	24590	24624	71	24732	34667

☐ **5 days QPF Ensemble: 2015-07-08 Issued: 2015-07-08**

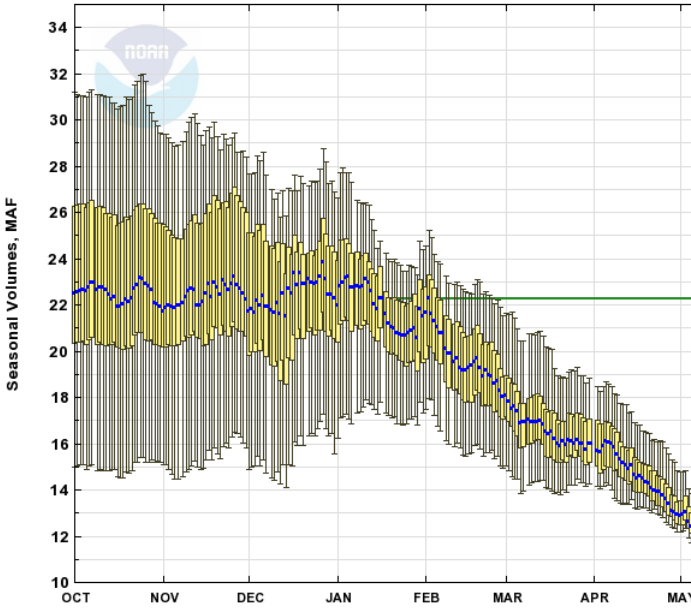
APR-SEP	11558	11594	52	11711	22279
APR-JUL	10209	10217	51	10231	19848
APR-AUG	10815	10837	51	10886	21091
JAN-SEP	19872	19907	67	20025	29872
JAN-JUL	18523	18530	68	18545	27440
OCT-SEP	24588	24624	71	24742	34667

☐ **0 days QPF Ensemble: 2015-07-08 Issued: 2015-07-08**

APR-SEP	11537	11576	52	11696	22279
APR-JUL	10195	10206	51	10222	19848
APR-AUG	10797	10821	51	10870	21091
JAN-SEP	19851	19890	67	20010	29872
JAN-JUL	18509	18519	67	18536	27440
OCT-SEP	24568	24607	71	24727	34667

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

Water Supply Forecasts
SNAKE - LOWER GRANITE DAM
 Period APR to SEP -- Water Year 2015



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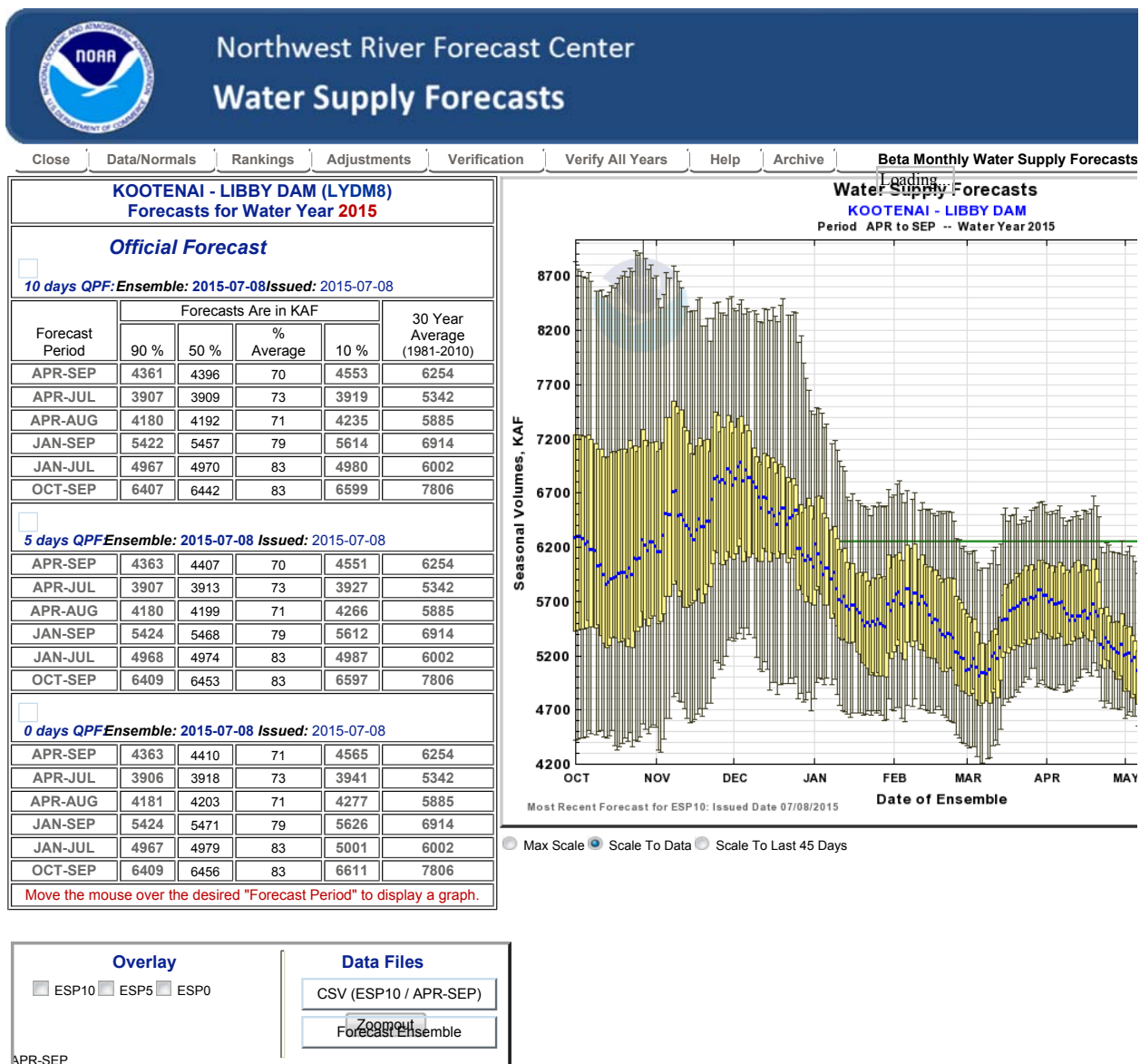
CSV (ESP10 / APR-SEP)

Zoomout

APR-SEP



The Libby Dam JULY forecast is not used for implementation of BiOp actions.
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The Dworshak Dam JULY forecast is not used for implementation of BiOp actions.
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NF CLEARWATER - DWORSHAK DAM (DWRI1)
Forecasts for Water Year **2015**

Official Forecast

☐ **10 days QPF Ensemble: 2015-07-08 Issued: 2015-07-08**

Forecast Period	Forecasts Are in KAF				30 Year Average (1981-2010)
	90 %	50 %	% Average	10 %	
APR-SEP	1175	1180	46	1195	2575
APR-JUL	1093	1093	45	1095	2419
JAN-SEP	2606	2611	76	2626	3445
JAN-JUL	2524	2525	77	2527	3289
OCT-SEP	3108	3113	80	3128	3891

☐ **5 days QPF Ensemble: 2015-07-08 Issued: 2015-07-08**

APR-SEP	1174	1181	46	1196	2575
APR-JUL	1093	1093	45	1097	2419
JAN-SEP	2605	2612	76	2627	3445
JAN-JUL	2524	2524	77	2528	3289
OCT-SEP	3107	3114	80	3129	3891

☐ **0 days QPF Ensemble: 2015-07-08 Issued: 2015-07-08**

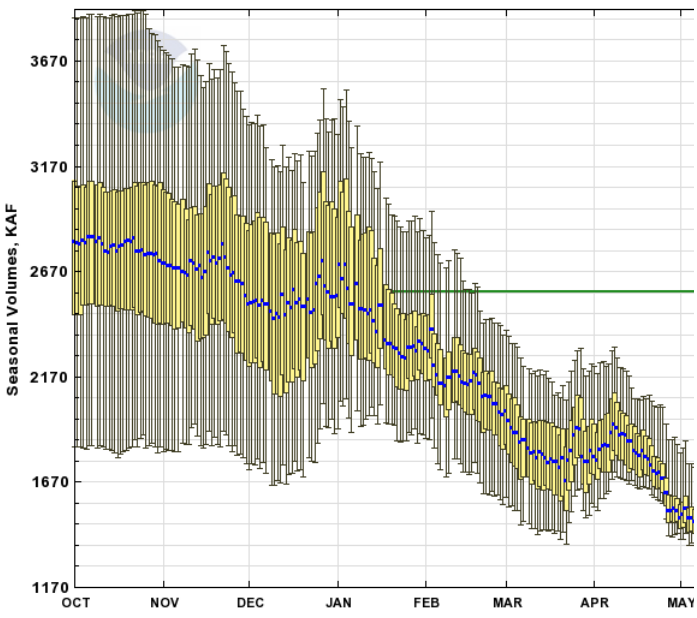
APR-SEP	1173	1180	46	1194	2575
APR-JUL	1091	1093	45	1096	2419
JAN-SEP	2604	2611	76	2625	3445
JAN-JUL	2522	2524	77	2527	3289
OCT-SEP	3106	3113	80	3127	3891

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

Water Supply Forecasts

NF CLEARWATER - DWORSHAK DAM

Period APR to SEP -- Water Year 2015



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Data Files

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APR-SEP



Grand Coulee Dam forecasts are not used for implementation of BiOp actions.
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COLUMBIA - GRAND COULEE DAM (GCDW1)
Forecasts for Water Year 2015

Official Forecast

☐ 10 days QPF: **Ensemble: 2015-07-08** **Issued: 2015-07-08**

Forecast Period	Forecasts Are in KAF				30 Year Average (1981-2010)
	90 %	50 %	% Average	10 %	
APR-SEP	44016	44554	74	45708	60110
APR-JUL	37841	38008	75	38190	51015
APR-AUG	41573	41949	74	42424	56763
JAN-SEP	60084	60621	88	61776	68694
JAN-JUL	53909	54076	91	54258	59599
OCT-SEP	70740	71278	93	72432	76824

☐ 5 days QPF: **Ensemble: 2015-07-08** **Issued: 2015-07-08**

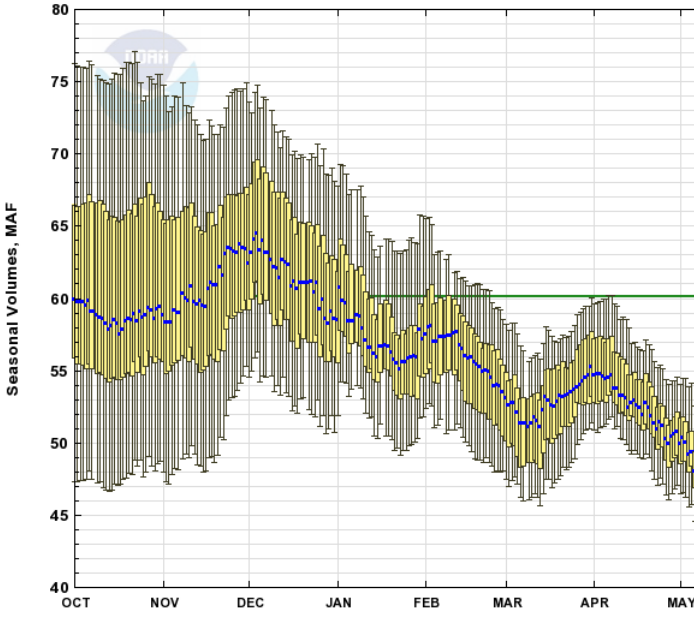
APR-SEP	44044	44636	74	45661	60110
APR-JUL	37842	38074	75	38272	51015
APR-AUG	41621	41964	74	42632	56763
JAN-SEP	60112	60704	88	61729	68694
JAN-JUL	53910	54142	91	54340	59599
OCT-SEP	70768	71360	93	72385	76824

☐ 0 days QPF: **Ensemble: 2015-07-08** **Issued: 2015-07-08**

APR-SEP	43937	44521	74	46310	60110
APR-JUL	37685	37984	74	38297	51015
APR-AUG	41439	41928	74	42583	56763
JAN-SEP	60005	60589	88	62378	68694
JAN-JUL	53753	54052	91	54365	59599
OCT-SEP	70661	71245	93	73034	76824

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

Water Supply Forecasts
COLUMBIA - GRAND COULEE DAM
 Period: APR to SEP -- Water Year 2015



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Data Files

APR-SEP

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http://www.nwrfc.noaa.gov/water_supply/ws_forecasts.php?id=GCDW1

Albeni Falls Dam forecasts are not used for implementation of BiOp actions.
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PEND OREILLE - ALBENI FALLS DAM (ALFW1)
Forecasts for Water Year 2015

Official Forecast
☐ **10 days QPF Ensemble: 2015-07-08 Issued: 2015-07-08**

Forecast Period	Forecasts Are in KAF				30 Year Average (1981-2010)
	90 %	50 %	% Average	10 %	
APR-SEP	7964	8003	62	8092	12815
APR-JUL	7196	7200	61	7210	11777
APR-AUG	7590	7610	62	7661	12354
JAN-SEP	13214	13252	87	13341	15226
JAN-JUL	12446	12450	88	12460	14189
OCT-SEP	15502	15541	90	15630	17218

☐ **5 days QPF Ensemble: 2015-07-08 Issued: 2015-07-08**

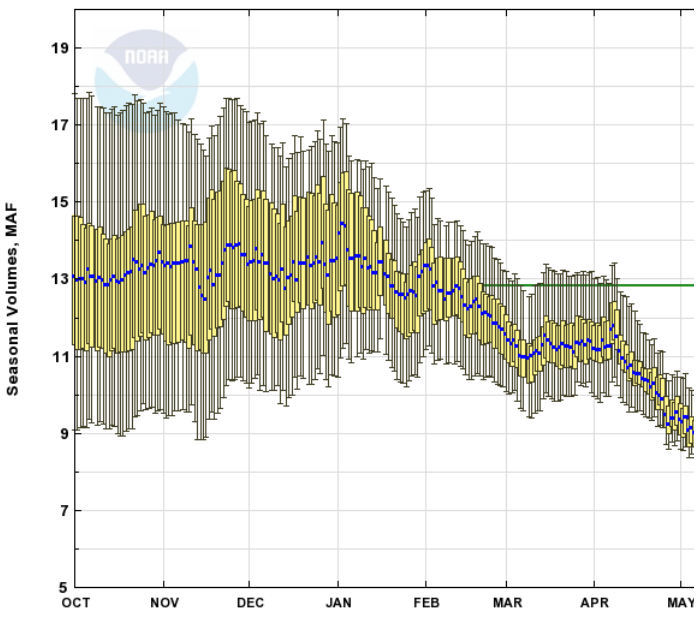
APR-SEP	7961	8005	62	8118	12815
APR-JUL	7195	7200	61	7213	11777
APR-AUG	7589	7612	62	7674	12354
JAN-SEP	13211	13255	87	13368	15226
JAN-JUL	12444	12450	88	12463	14189
OCT-SEP	15499	15543	90	15656	17218

☐ **0 days QPF Ensemble: 2015-07-08 Issued: 2015-07-08**

APR-SEP	7956	8004	62	8158	12815
APR-JUL	7189	7204	61	7225	11777
APR-AUG	7581	7614	62	7689	12354
JAN-SEP	13206	13254	87	13408	15226
JAN-JUL	12439	12453	88	12475	14189
OCT-SEP	15494	15542	90	15696	17218

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

Water Supply Forecasts
PEND OREILLE - ALBENI FALLS DAM
 Period APR to SEP -- Water Year 2015



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Data Files

CSV (ESP10 / APR-SEP)

Zoomout

Forecast Ensemble

