

JULY official water supply forecasts set BiOp actions at projects highlighted in table below.

Forecasts for other projects are provided for informational purposes.

Forecast Point	Forecast Period	Forecast	BiOp Actions to be Determined
Hungry Horse (Provided by Reclamation)	April – August	January, February, March Final	Sets min. flows at Hungry Horse and Columbia Falls
	May – September	January, February, March Final	Sets VARQ flood control targets
		April Final	Sets VARQ flood control targets and VARQ refill flows
		May, June Final	Sets VARQ refill flows
The Dalles (Provided by NWRFC)	April – August	April Final	Sets spring flow objective at McNary Dam and informs decision on juvenile fish transportation operations at McNary
		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 (Provided by NWRFC)	April – July	April Final	Sets spring flow objective at Lower Granite and informs decision on juvenile fish transportation operations at Lower Snake projects
		June Final	Sets summer flow objective at Lower Granite
Libby (Provided by Corps Seattle District)	April – August	December Final	Sets end of December variable draft target
		January, February, March Final	Sets VARQ flood control targets
		April Final	Sets VARQ flood control 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 refill flows
		June Final	VARQ refill flows
Dworshak (Provided by Corps Walla Walla District)	April – July	October through June	Manage for reservoir refill

Water Year 2014 - JULY Water Supply Forecast

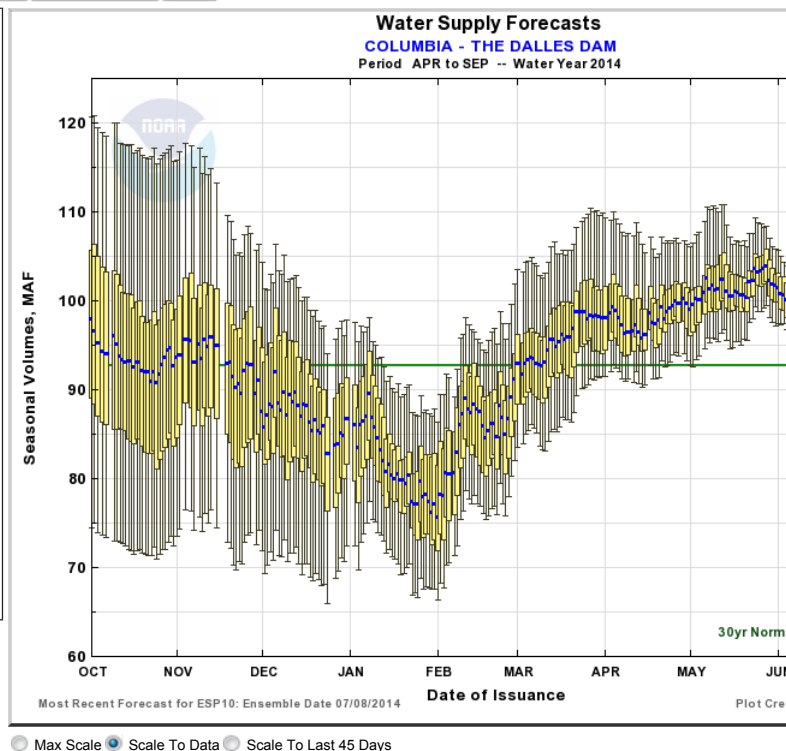


Northwest River Forecast Center

Water Supply Forecasts

[Close](#) [Archive](#) [Data/Normals](#) [Rankings](#) [Adjustments](#) [Verification](#) [Verify All Years](#) [Help](#)

COLUMBIA - THE DALLES DAM (TDAO3) Forecasts for Water Year 2014					
Official Forecast					
10 days QPF: Ensemble: 2014-07-08 Issued: 2014-07-08					
Forecast Period	Forecasts Are in KAF				30 Year Average (1981-2010)
	90 %	50 %	% Average	10 %	
APR-SEP	99502	100717	109	102864	92704
APR-JUL	86704	86915	109	87209	79855
APR-AUG	94265	94969	108	96260	87532
JAN-JUL	108032	108243	107	108537	101368
5 days QPF: Ensemble: 2014-07-08 Issued: 2014-07-08					
APR-SEP	99498	100895	109	103027	92704
APR-JUL	86496	86939	109	87505	79855
APR-AUG	94129	95205	109	96767	87532
JAN-JUL	107824	108267	107	108833	101368
0 days QPF: Ensemble: 2014-07-08 Issued: 2014-07-08					
APR-SEP	99914	101501	109	104489	92704
APR-JUL	86519	87245	109	88041	79855
APR-AUG	94191	95543	109	97430	87532
JAN-JUL	107847	108573	107	109369	101368
Move the mouse over the desired "Forecast Period" to display a graph.					



Overlay

ESP10 ESP5 ESP0

☐ ☐ ☐

Data Files

CSV (ESP10 / APR-SEP)


[Commerce Home](#) | [NOAA](#) | [NWS Organization](#) | [NWRFC Site Map](#) | [Search](#)
[Freedom of Information Act](#) | [Privacy Policy](#) | [Information Quality](#) | [USA.gov](#) | [Career Opportunities](#)

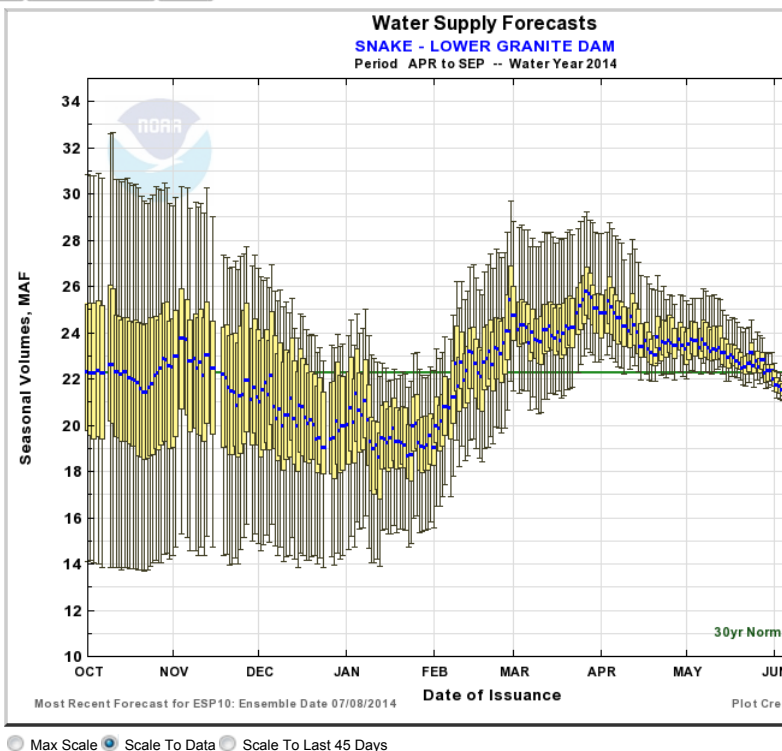
Water Year 2014 - JULY Water Supply Forecast



Northwest River Forecast Center Water Supply Forecasts

[Close](#) [Archive](#) [Data/Normals](#) [Rankings](#) [Adjustments](#) [Verification](#) [Verify All Years](#) [Help](#)

SNAKE - LOWER GRANITE DAM (LGDW1) Forecasts for Water Year 2014					
Official Forecast					
10 days QPF: Ensemble: 2014-07-08 Issued: 2014-07-08					
Forecast Period	Forecasts Are in KAF				30 Year Average (1981-2010)
	90 %	50 %	% Average	10 %	
APR-SEP	21597	21663	97	21921	22279
APR-JUL	19724	19730	99	19793	19848
APR-AUG	20604	20647	98	20816	21091
JAN-JUL	26951	26957	98	27020	27440
5 days QPF Ensemble: 2014-07-08 Issued: 2014-07-08					
APR-SEP	21590	21667	97	21959	22279
APR-JUL	19705	19729	99	19821	19848
APR-AUG	20585	20649	98	20848	21091
JAN-JUL	26932	26956	98	27048	27440
0 days QPF Ensemble: 2014-07-08 Issued: 2014-07-08					
APR-SEP	21565	21688	97	22090	22279
APR-JUL	19669	19753	100	19914	19848
APR-AUG	20542	20703	98	20918	21091
JAN-JUL	26896	26980	98	27141	27440
Move the mouse over the desired "Forecast Period" to display a graph.					



Overlay	Data Files
☒ ESP10 ☐ ESP5 ☐ ESP0	CSV (ESP10 / APR-SEP)


[Commerce Home](#) | [NOAA](#) | [NWS Organization](#) | [NWRFC Site Map](#) | [Search](#)
[Freedom of Information Act](#) | [Privacy Policy](#) | [Information Quality](#) | [USA.gov](#) | [Career Opportunities](#)

*Dworshak Dam official water supply forecasts are computed October-June by Corps Walla Walla District.
 This forecast from NWRFC is provided for informational purposes only.



Northwest River Forecast Center Water Supply Forecasts

Close Archive Data/Normals Rankings Adjustments Verification Verify All Years Help

NF CLEARWATER - DWORSHAK DAM (DWRI1) Forecasts for Water Year 2014

Official Forecast

10 days QPF: Ensemble: 2014-07-08 Issued: 2014-07-08

Forecast Period	Forecasts Are in KAF				30 Year Average (1981-2010)
	90 %	50 %	% Average	10 %	
APR-SEP	3122	3137	122	3232	2575
APR-JUL	2974	2975	123	2997	2419
JAN-JUL	3925	3926	119	3948	3289

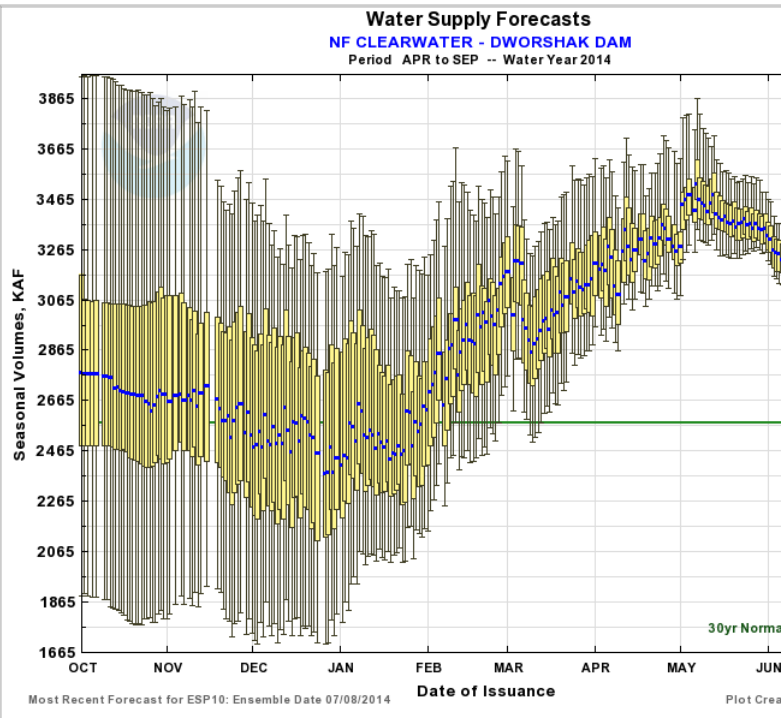
5 days QPF Ensemble: 2014-07-08 Issued: 2014-07-08

APR-SEP	3114	3137	122	3250	2575
APR-JUL	2966	2973	123	3006	2419
JAN-JUL	3917	3924	119	3957	3289

0 days QPF Ensemble: 2014-07-08 Issued: 2014-07-08

APR-SEP	3104	3153	122	3261	2575
APR-JUL	2958	2985	123	3012	2419
JAN-JUL	3909	3936	120	3963	3289

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



Max Scale Scale To Data Scale To Last 45 Days

Overlay

ESP10

ESP5

ESP0

Data Files

CSV (ESP10 / APR-SEP)



Commerce Home | NOAA | NWS Organization | NWRFC Site Map | Search

Freedom of Information Act | Privacy Policy | Information Quality | USA.gov | Career Opportunities

* Grand Coulee Dam water supply forecasts are not used for implementation of BiOp actions.
This forecast is provided for informational purposes only.



Northwest River Forecast Center Water Supply Forecasts

Close Archive Data/Normals Rankings Adjustments Verification Verify All Years Help

COLUMBIA - GRAND COULEE DAM (GCDW1) Forecasts for Water Year 2014

Official Forecast

10 days QPF: Ensemble: 2014-07-08 Issued: 2014-07-08

Forecast Period	Forecasts Are in KAF				30 Year Average (1981-2010)
	90 %	50 %	% Average	10 %	
APR-SEP	65932	67018	111	68939	60110
APR-JUL	56953	57160	112	57461	51015
APR-AUG	62582	63297	112	64461	56763
JAN-JUL	64886	65093	109	65394	59599

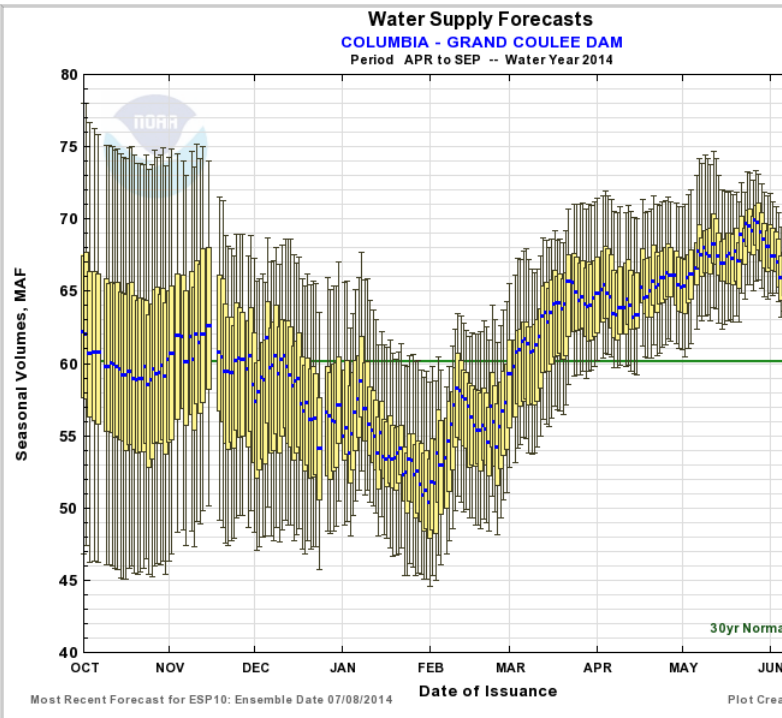
5 days QPF Ensemble: 2014-07-08 Issued: 2014-07-08

APR-SEP	65975	67336	112	69125	60110
APR-JUL	56764	57163	112	57672	51015
APR-AUG	62455	63501	112	64914	56763
JAN-JUL	64697	65096	109	65605	59599

0 days QPF Ensemble: 2014-07-08 Issued: 2014-07-08

APR-SEP	66415	67797	113	70464	60110
APR-JUL	56857	57487	113	58190	51015
APR-AUG	62629	63834	112	65531	56763
JAN-JUL	64790	65420	110	66123	59599

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



Max Scale Scale To Data Scale To Last 45 Days

Overlay

ESP10

ESP5

ESP0

Data Files

CSV (ESP10 / APR-SEP)



Commerce Home | NOAA | NWS Organization | NWRFC Site Map | Search

Freedom of Information Act | Privacy Policy | Information Quality | USA.gov | Career Opportunities

*Libby Dam official water supply forecasts are computed December-June by Corps Seattle District.
 This forecast from NWRFC is provided for informational purposes only.



Northwest River Forecast Center Water Supply Forecasts

Close Archive Data/Normals Rankings Adjustments Verification Verify All Years Help

KOOTENAI - LIBBY DAM (LYDM8) Forecasts for Water Year 2014

Official Forecast

10 days QPF: Ensemble: 2014-07-08 Issued: 2014-07-08

Forecast Period	Forecasts Are in KAF				30 Year Average (1981-2010)
	90 %	50 %	% Average	10 %	
APR-SEP	7219	7307	117	7487	6254
APR-JUL	6360	6368	119	6383	5342
APR-AUG	6914	6945	118	7018	5885
JAN-JUL	6943	6951	116	6966	6002

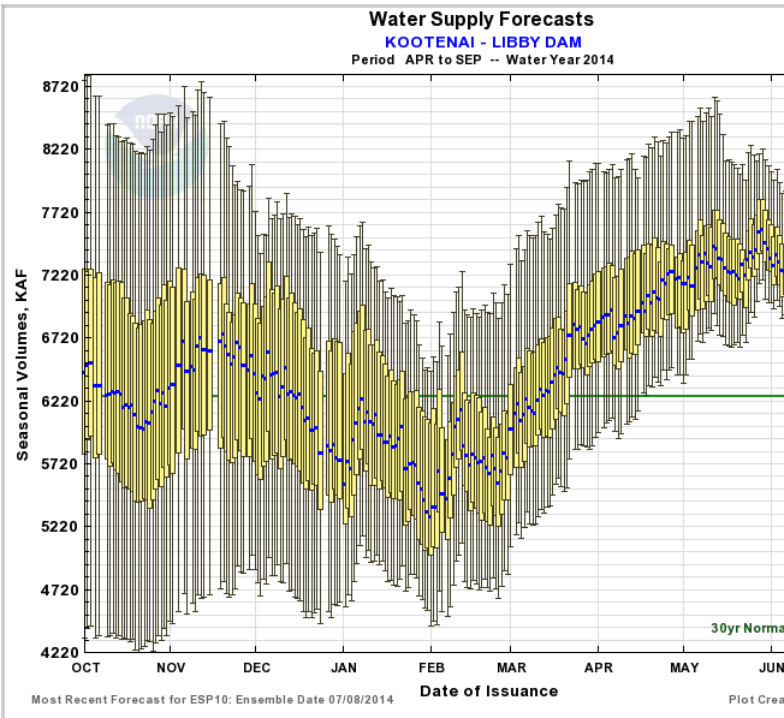
5 days QPF Ensemble: 2014-07-08 Issued: 2014-07-08

APR-SEP	7215	7319	117	7500	6254
APR-JUL	6345	6361	119	6387	5342
APR-AUG	6910	6951	118	7078	5885
JAN-JUL	6928	6944	116	6970	6002

0 days QPF Ensemble: 2014-07-08 Issued: 2014-07-08

APR-SEP	7239	7375	118	7630	6254
APR-JUL	6350	6387	120	6516	5342
APR-AUG	6921	6998	119	7193	5885
JAN-JUL	6933	6970	116	7099	6002

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



Max Scale Scale To Data Scale To Last 45 Days

Overlay

ESP10

ESP5

ESP0

Data Files

CSV (ESP10 / APR-SEP)



Commerce Home | NOAA | NWS Organization | NWRFC Site Map | Search

Freedom of Information Act | Privacy Policy | Information Quality | USA.gov | Career Opportunities

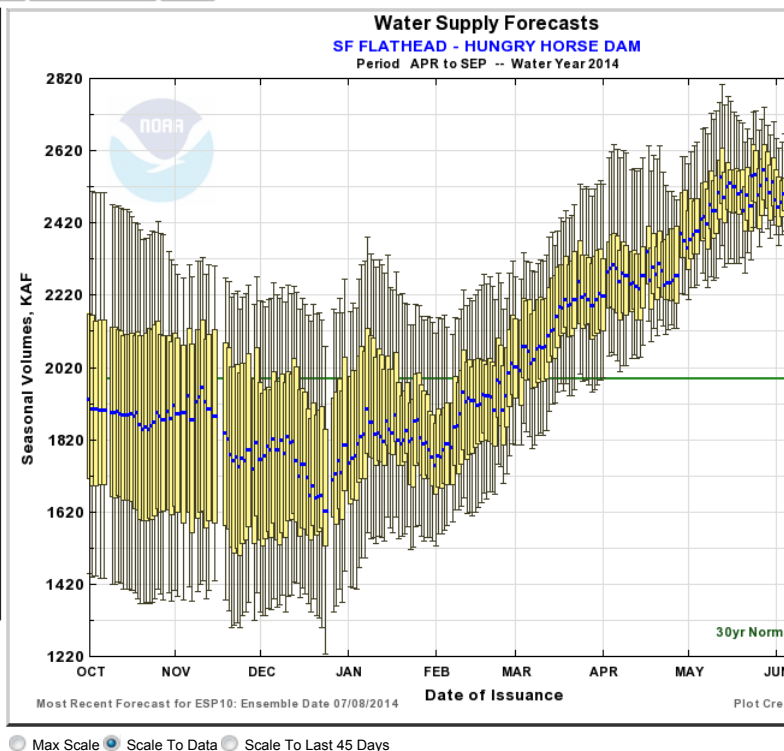
*Hungry Horse Dam official water supply forecasts are computed January-June by Bureau of Reclamation.
 This forecast from NWRFC is provided for informational purposes only.

Northwest River Forecast Center

Water Supply Forecasts

[Close](#)
[Archive](#)
[Data/Normals](#)
[Rankings](#)
[Adjustments](#)
[Verification](#)
[Verify All Years](#)
[Help](#)

SF FLATHEAD - HUNGRY HORSE DAM (HHWM8)					
Forecasts for Water Year 2014					
Official Forecast					
10 days QPF: Ensemble: 2014-07-08 Issued: 2014-07-08					
Forecast Period	Forecasts Are in KAF				30 Year Average (1981-2010)
	90 %	50 %	% Average	10 %	
APR-SEP	2707	2718	137	2749	1988
APR-JUL	2589	2589	138	2594	1871
APR-AUG	2660	2663	138	2678	1936
JAN-JUL	2770	2770	132	2775	2098
5 days QPF Ensemble: 2014-07-08 Issued: 2014-07-08					
APR-SEP	2706	2722	137	2773	1988
APR-JUL	2588	2589	138	2609	1871
APR-AUG	2659	2665	138	2693	1936
JAN-JUL	2769	2770	132	2790	2098
0 days QPF Ensemble: 2014-07-08 Issued: 2014-07-08					
APR-SEP	2701	2726	137	2795	1988
APR-JUL	2581	2592	139	2618	1871
APR-AUG	2653	2670	138	2706	1936
JAN-JUL	2762	2773	132	2799	2098
Move the mouse over the desired "Forecast Period" to display a graph.					



Overlay

Data Files



[Commerce Home](#) |
 [NOAA](#) |
 [NWS Organization](#) |
 [NWRFC Site Map](#) |
 [Search](#)

[Freedom of Information Act](#) |
 [Privacy Policy](#) |
 [Information Quality](#) |
 [USA.gov](#) |
 [Career Opportunities](#)

*Albeni Falls Dam water supply forecasts are not used for implementation of BiOp actions.

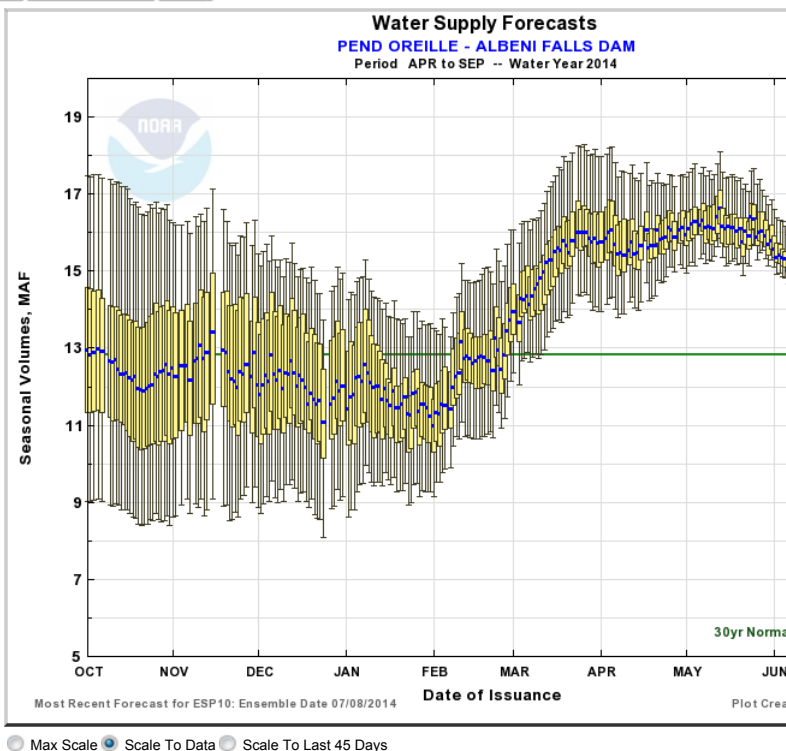
This forecast is provided for informational purposes only.

Northwest River Forecast Center

Water Supply Forecasts

[Close](#)
[Archive](#)
[Data/Normals](#)
[Rankings](#)
[Adjustments](#)
[Verification](#)
[Verify All Years](#)
[Help](#)

PEND OREILLE - ALBENI FALLS DAM (ALFW1) Forecasts for Water Year 2014					
Official Forecast					
10 days QPF: Ensemble: 2014-07-08 Issued: 2014-07-08					
Forecast Period	Forecasts Are in KAF				30 Year Average (1981-2010)
	90 %	50 %	% Average	10 %	
APR-SEP	16619	16707	130	16856	12815
APR-JUL	15387	15395	131	15427	11777
APR-AUG	16093	16139	131	16226	12354
JAN-JUL	17678	17686	125	17718	14189
5 days QPF Ensemble: 2014-07-08 Issued: 2014-07-08					
APR-SEP	16608	16700	130	16897	12815
APR-JUL	15377	15400	131	15468	11777
APR-AUG	16083	16138	131	16275	12354
JAN-JUL	17668	17691	125	17759	14189
0 days QPF Ensemble: 2014-07-08 Issued: 2014-07-08					
APR-SEP	16601	16753	131	17066	12815
APR-JUL	15363	15421	131	15544	11777
APR-AUG	16070	16163	131	16413	12354
JAN-JUL	17654	17712	125	17835	14189
Move the mouse over the desired "Forecast Period" to display a graph.					



Overlay

Data Files



[Commerce Home](#) |
 [NOAA](#) |
 [NWS Organization](#) |
 [NWRFC Site Map](#) |
 [Search](#)

[Freedom of Information Act](#) |
 [Privacy Policy](#) |
 [Information Quality](#) |
 [USA.gov](#) |
 [Career Opportunities](#)