

The Official Water Supply Forecasts for January through July are computed on the 3rd workday of the month. Flood Risk Management (FRM) is computed at standard intervals and posted at: www.nwd.usace.army.mil/Missions/Water/Columbia/FloodControl

The **JULY** Water Supply Forecast sets BiOp actions as highlighted in the table below:

Forecast Point	Forecast period	Forecast	BiOp Actions to be Determined
Hungry Horse	April – August Provided by Reclamation	January, February, March	Sets min. flows at Hungry Horse and Columbia Falls
	May – September Provided by Reclamation	January, February, March	Sets VARQ FRM targets
		April	Sets VARQ FRM targets and VARQ refill flows
		May	Sets VARQ refill flows Sets end of September draft target
		June	Sets VARQ refill flows
The Dalles	April – September Provided by NWRFC	March	Sets CRWMP adjustments at Grand Coulee
	April – August Provided by NWRFC	April	Sets spring flow objective at McNary Dam
		July	Sets end of August draft limit at Grand Coulee
Lower Granite	April – July Provided by NWRFC	April	Sets spring flow objective at Lower Granite
		June	Sets summer flow objective at Lower Granite
Libby	April – August Provided by Corps Seattle District	December	Sets end of December variable draft target
		January, February, March	Sets VARQ FRM targets
		April	Sets VARQ FRM targets and VARQ refill flows
		May	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 Sets end of September draft limit.
		June	VARQ refill flows
Dworshak	April – July Provided by NWRFC	January to March	Manage for reservoir FRM, VDL, and Flood Control Refill Curve (FCRC)
		April to June	Manage for reservoir FRM and FCRC

Source: 2024 Water Management Plan, page 15 - <https://pweb.crohms.org/tmt/documents/wmp/2024/>



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SF FLATHEAD - HUNGRY HORSE DAM (HHWM8)

Forecasts for Water Year 2024

Official Water Supply

ESP with 10 Days QPF Ensemble: 2024-07-03 Issued: 2024-07-03

Forecast Period	Forecasts Are in KAF				30 Year Average (1991-2020)
	90 %	50 %	% Average	10 %	
APR-SEP	1438	1442	69	1463	2088
APR-JUL	1347	1347	68	1347	1981
APR-AUG	1401	1402	69	1409	2043
JAN-SEP	1681	1685	72	1705	2343
JAN-JUL	1590	1590	71	1590	2236
OCT-SEP	1874	1877	73	1898	2567

Experimental Water Supply

HEFS with 15 days EQPF Ensemble: 2024-07-03 Issued: 2024-07-03

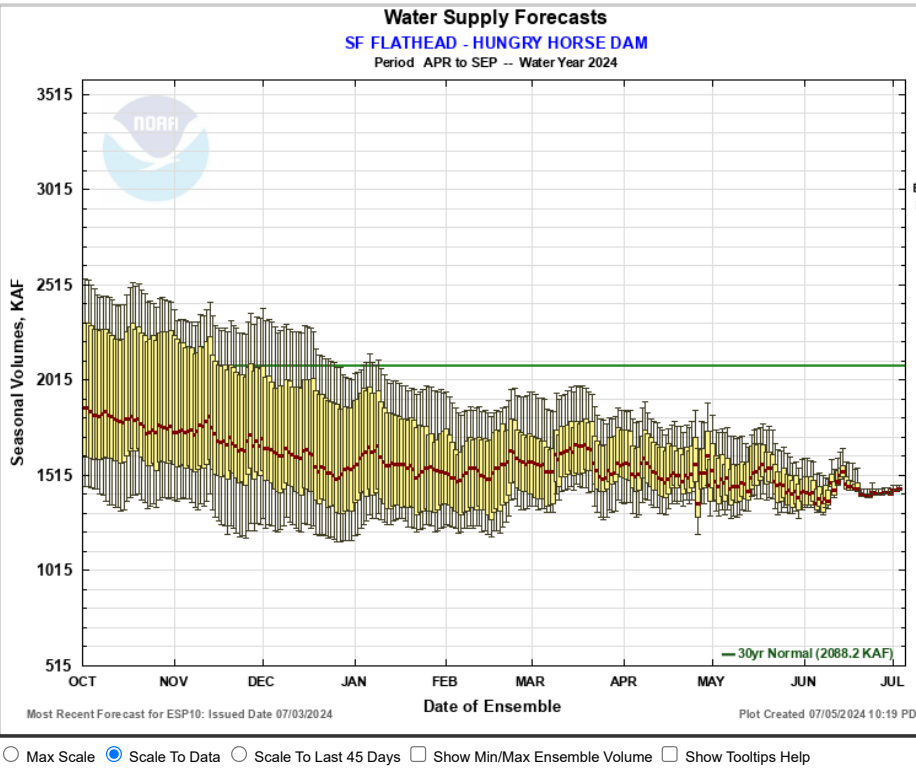
APR-SEP	1435	1443	69	1481	2088
APR-JUL	1343	1346	68	1364	1981
APR-AUG	1397	1401	69	1421	2043
JAN-SEP	1678	1685	72	1724	2343
JAN-JUL	1586	1589	71	1607	2236
OCT-SEP	1870	1878	73	1916	2567

Reference

ESP with 0 Days QPF Ensemble: 2024-07-03 Issued: 2024-07-03

APR-SEP	1435	1446	69	1506	2088
APR-JUL	1343	1347	68	1382	1981
APR-AUG	1397	1402	69	1442	2043
JAN-SEP	1677	1689	72	1748	2343
JAN-JUL	1586	1589	71	1624	2236
OCT-SEP	1870	1881	73	1941	2567

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



Overlay

ESP10

HEFS

ESP0

Data Files

CSV (ESP10 / APR-SEP)



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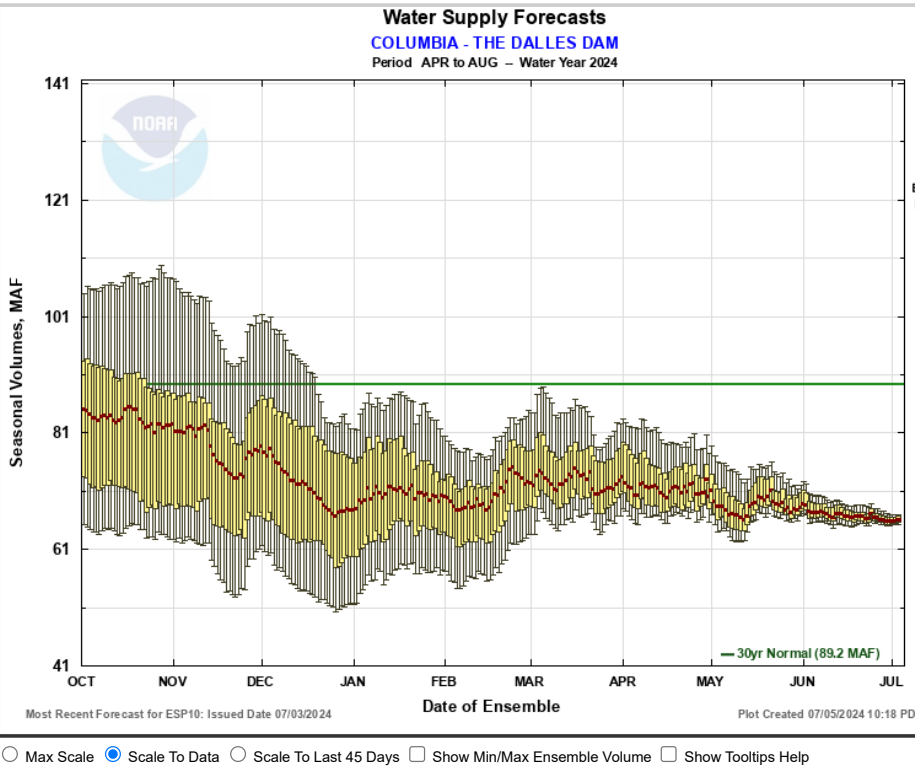
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COLUMBIA - THE DALLES DAM (TDAO3) Forecasts for Water Year 2024					
Official Water Supply					
ESP with 10 Days QPF Ensemble: 2024-07-03 Issued: 2024-07-03					
Forecast Period	Forecasts Are in KAF				30 Year Average (1991-2020)
	90 %	50 %	% Average	10 %	
APR-SEP	69759	70685	75	72381	94166
APR-JUL	59132	59542	73	60074	81933
APR-AUG	65219	66005	74	66918	89196
JAN-SEP	89097	90022	78	91719	115946
JAN-JUL	78470	78880	76	79411	103714
OCT-SEP	102351	103277	78	104973	132314
Experimental Water Supply					
HEFS with 15 days EQPF Ensemble: 2024-07-03 Issued: 2024-07-03					
APR-SEP	69830	70782	75	72418	94166
APR-JUL	59103	59640	73	60197	81933
APR-AUG	65369	66110	74	66886	89196
JAN-SEP	89168	90120	78	91756	115946
JAN-JUL	78441	78978	76	79535	103714
OCT-SEP	102422	103374	78	105010	132314
Reference					
ESP with 0 Days QPF Ensemble: 2024-07-03 Issued: 2024-07-03					
APR-SEP	69923	71452	76	74292	94166
APR-JUL	59149	60041	73	60848	81933
APR-AUG	65405	66777	75	68568	89196
JAN-SEP	89260	90790	78	93630	115946
JAN-JUL	78487	79379	77	80185	103714
OCT-SEP	102515	104044	79	106884	132314

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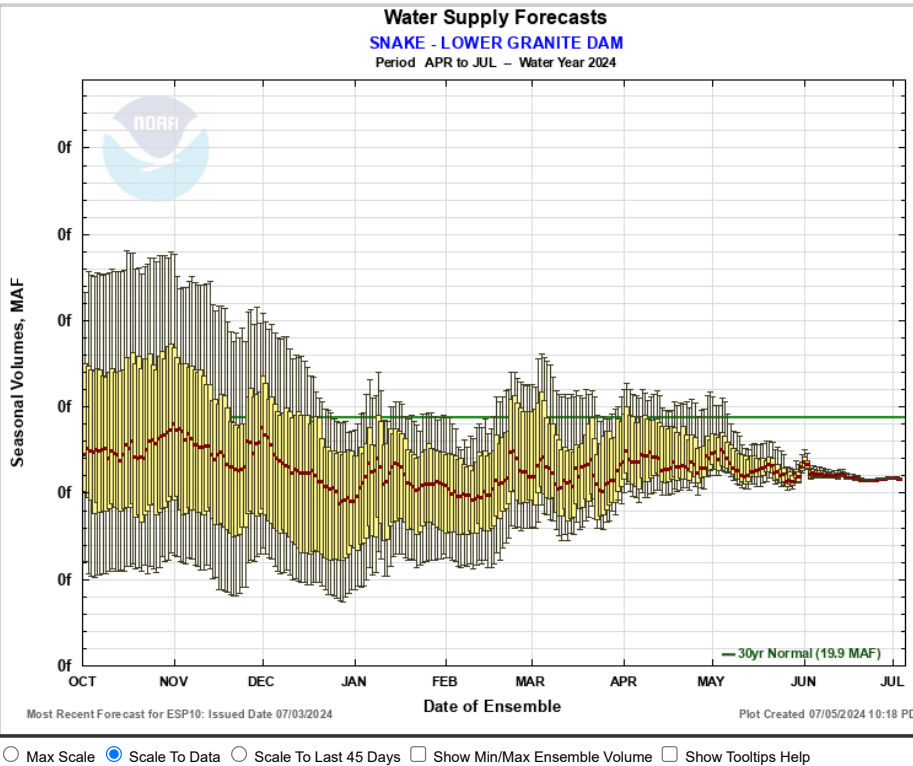
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SNAKE - LOWER GRANITE DAM (LGDW1) Forecasts for Water Year 2024					
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Forecast Period	Forecasts Are in KAF				30 Year Average (1991-2020)
	90 %	50 %	% Average	10 %	
APR-SEP	18682	18758	84	18981	22232
APR-JUL	16410	16423	82	16444	19946
APR-AUG	17533	17585	83	17676	21121
JAN-SEP	24564	24640	83	24863	29736
JAN-JUL	22292	22305	81	22326	27450
OCT-SEP	28409	28485	83	28708	34287
Experimental Water Supply					
HEFS with 15 days EQPF Ensemble: 2024-07-03 Issued: 2024-07-03					
APR-SEP	18685	18758	84	18980	22232
APR-JUL	16410	16423	82	16445	19946
APR-AUG	17537	17587	83	17675	21121
JAN-SEP	24567	24640	83	24862	29736
JAN-JUL	22292	22305	81	22327	27450
OCT-SEP	28411	28485	83	28707	34287
Reference					
ESP with 0 Days QPF Ensemble: 2024-07-03 Issued: 2024-07-03					
APR-SEP	18728	18819	85	19069	22232
APR-JUL	16431	16455	82	16532	19946
APR-AUG	17572	17628	83	17762	21121
JAN-SEP	24610	24701	83	24951	29736
JAN-JUL	22313	22337	81	22414	27450
OCT-SEP	28455	28546	83	28796	34287

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Water Supply Forecasts

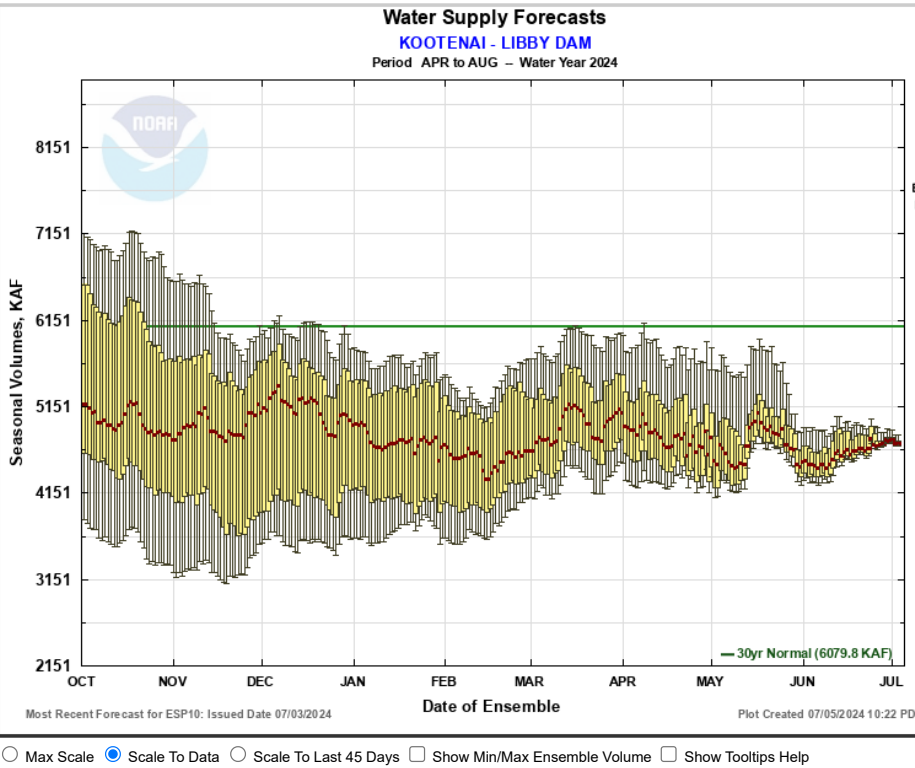
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KOOTENAI - LIBBY DAM (LYDM8) Forecasts for Water Year 2024					
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Forecast Period	Forecasts Are in KAF				30 Year Average (1991-2020)
	90 %	50 %	% Average	10 %	
APR-SEP	4952	5024	78	5151	6429
APR-JUL	4288	4299	77	4322	5570
APR-AUG	4702	4726	78	4825	6080
JAN-SEP	5539	5611	79	5738	7086
JAN-JUL	4876	4887	78	4910	6227
OCT-SEP	6243	6315	79	6442	7981
Experimental Water Supply					
HEFS with 15 days EQPF Ensemble: 2024-07-03 Issued: 2024-07-03					
APR-SEP	4972	5087	79	5255	6429
APR-JUL	4300	4332	78	4408	5570
APR-AUG	4716	4765	78	4912	6080
JAN-SEP	5559	5675	80	5842	7086
JAN-JUL	4887	4920	79	4995	6227
OCT-SEP	6263	6378	80	6546	7981
Reference					
ESP with 0 Days QPF Ensemble: 2024-07-03 Issued: 2024-07-03					
APR-SEP	4679	4830	75	5115	6429
APR-JUL	3995	4061	73	4246	5570
APR-AUG	4411	4505	74	4751	6080
JAN-SEP	5267	5418	76	5703	7086
JAN-JUL	4583	4648	75	4833	6227
OCT-SEP	5970	6121	77	6407	7981

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NF CLEARWATER - DWORSHAK DAM (DWR11)

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Forecast Period	Forecasts Are in KAF				30 Year Average (1991-2020)
	90 %	50 %	% Average	10 %	
APR-SEP	1709	1713	65	1731	2620
APR-JUL	1595	1596	65	1601	2474
JAN-SEP	2421	2425	68	2443	3543
JAN-JUL	2308	2308	68	2313	3397
OCT-SEP	2721	2724	68	2743	3998

Experimental Water Supply

HEFS with 15 days EQPF Ensemble: 2024-07-03 Issued: 2024-07-03

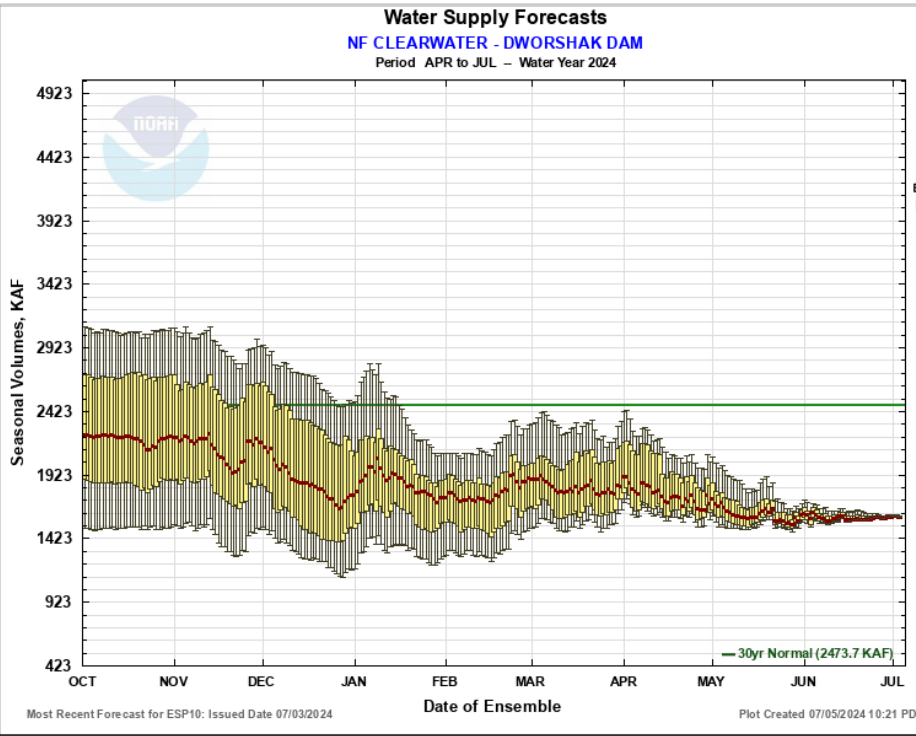
APR-SEP	1709	1713	65	1730	2620
APR-JUL	1595	1596	65	1600	2474
JAN-SEP	2421	2425	68	2443	3543
JAN-JUL	2308	2308	68	2312	3397
OCT-SEP	2721	2724	68	2742	3998

Reference

ESP with 0 Days QPF Ensemble: 2024-07-03 Issued: 2024-07-03

APR-SEP	1710	1717	66	1772	2620
APR-JUL	1596	1597	65	1630	2474
JAN-SEP	2422	2429	69	2484	3543
JAN-JUL	2308	2309	68	2343	3397
OCT-SEP	2721	2728	68	2783	3998

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



- ☐ Max Scale
- ☒ Scale To Data
- ☐ Scale To Last 45 Days
- ☐ Show Min/Max Ensemble Volume
- ☐ Show Tooltips Help

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