

JUNE 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 - JUNE Water Supply Forecast

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COLUMBIA - THE DALLES DAM (TDAO3)
Forecasts for Water Year 2014

Official Forecast
-10 days QPF: Ensemble: 2014-06-06Issued: 2014-06-06Hide
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Forecast Period	Forecasts Are in KAF				30 Year Average (1981-2010)
	90 %	50 %	% Average	10 %	
APR-SEP	97181	100070	108	103784	92704
APR-JUL	83585	85467	107	88519	79855
APR-AUG	91412	94056	107	97649	87532
JAN-JUL	104913	106795	105	109847	101368

-5 days QPF: Ensemble: 2014-06-06 Issued: 2014-06-06Hide
Forecast

APR-SEP	97344	101232	109	105423	92704
APR-JUL	84293	86324	108	90396	79855
APR-AUG	91849	95159	109	99265	87532
JAN-JUL	105621	107652	106	111724	101368

-0 days QPF: Ensemble: 2014-06-06 Issued: 2014-06-06Hide
Forecast

APR-SEP	98439	102976	111	107477	92704
APR-JUL	85278	88248	111	92784	79855
APR-AUG	92752	96975	111	101294	87532
JAN-JUL	106606	109576	108	114112	101368

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

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Water Year 2014 - JUNE Water Supply Forecast

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SNAKE - LOWER GRANITE DAM (LGDW1) Forecasts for Water Year 2014					
Official Forecast					
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Forecast Period	Forecasts Are in KAF				30 Year Average (1981-2010)
	90 %	50 %	% Average	10 %	
APR-SEP	21075	21467	96	21925	22279
APR-JUL	19388	19753	100	20320	19848
APR-AUG	20113	20456	97	20960	21091
JAN-JUL	26615	26980	98	27547	27440
-5 days QPF: Ensemble: 2014-06-06 Issued: 2014-06-06Hide Forecast					
APR-SEP	21275	21766	98	22411	22279
APR-JUL	19533	20046	101	20793	19848
APR-AUG	20221	20709	98	21387	21091
JAN-JUL	26760	27273	99	28020	27440
-0 days QPF: Ensemble: 2014-06-06 Issued: 2014-06-06Hide Forecast					
APR-SEP	21388	22052	99	23255	22279
APR-JUL	19708	20372	103	21615	19848
APR-AUG	20419	21072	100	22236	21091
JAN-JUL	26935	27599	101	28842	27440
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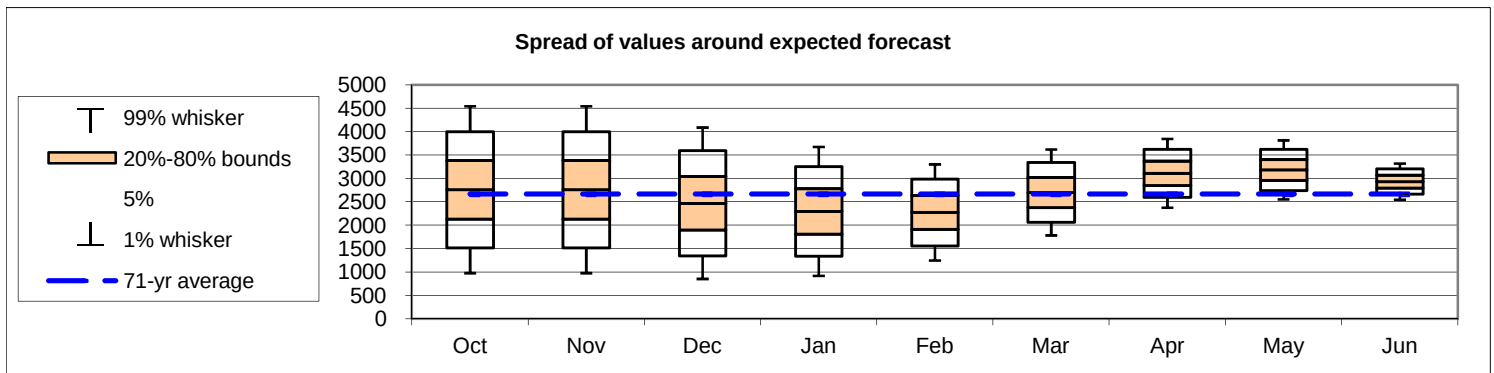
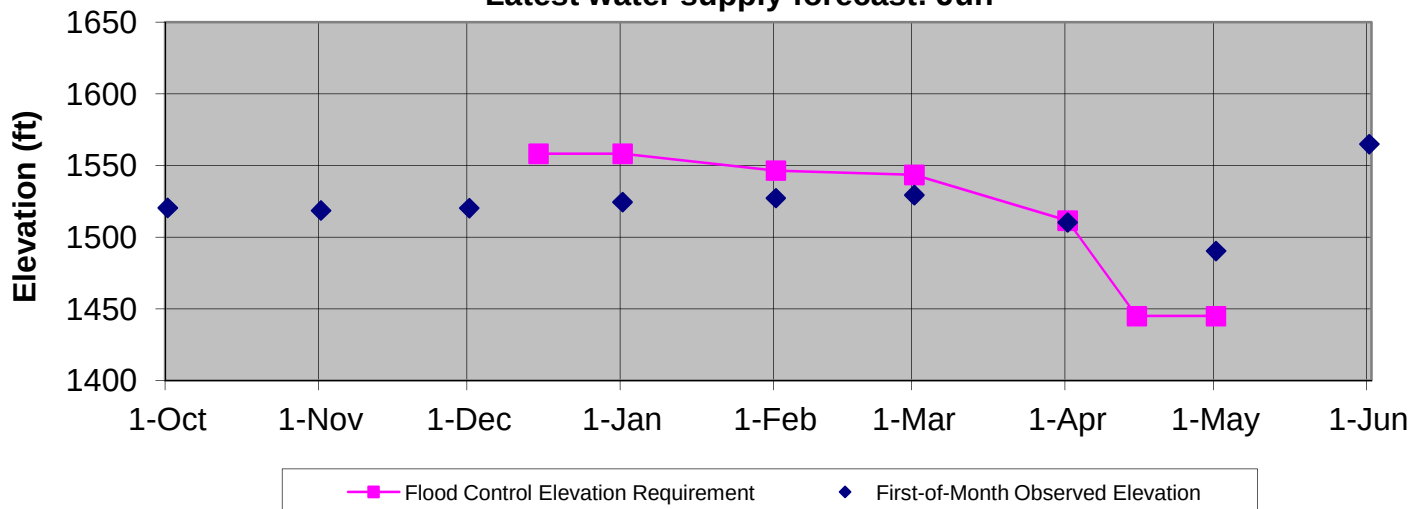
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Dworshak : June Runoff Forecast & Flood Control Calculation**WY 2014**

Runoff Forecast and Flood Control						1981-2010 Average	Percent of 30yr Average	1929-2010 Average	Percent of Average
Most Probable Runoff Volume	Apr-Jul	2933	KAF			2438	120%	2663	110%
	May-Jul	2204	KAF			1784	124%	1953	113%
	Jun-Jul	1027	KAF			853	124%	913	113%
Seasonal Flood Control (assumes no shift of flood control space to Grand Coulee)									
Forecast Date>>	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Apr-Jul Runoff Forecast	2758	2758	2470	2296	2274	2701	3111	3183	2933
First-of-Month Elev	1520.6	1518.7	1520.4	1524.6	1527.3	1529.5	1510.4	1490.5	1565.0
Date >>		15-Dec	31-Dec	31-Jan	28-Feb	31-Mar	15-Apr	30-Apr	
Flood Control Space	--	700	700	869	912	1336	2016	2016	
Flood Control Elevation	--	1558.2	1558.2	1546.5	1543.5	1511.6	1445.0	1445.0	

**Dworshak Flood Control Elevations - 2014****Latest water supply forecast: Jun****Notes:**

- The given forecast is the official Corps of Engineers forecast for Dworshak. If you have any questions please contact Jeremy Giovando (509 527 7053), or Steve Hall (509 527 7550).
- Due to updated values for precipitation, snow or streamflow, subsequent forecasts may be different from the forecast published herein.
- 15-Dec and 31-Dec flood control space is fixed at 700 KAF.

Dworshak : June Runoff Forecast & Flood Control Calculation**Apr-Jul Runoff Forecast Calculation:**

Variable	Month	Observed Value	% of Average	Regression Coefficient	Marginal Runoff (KAF)
		A		B	=A*B
Hoodoo Basin SWE	1-Jan	42.3	149%	8.21	347.3
Shanghi Summit SWE	1-Jan	0.0	0%	10.26	0.0
Lost Lake SWE	1-Jan	46.5	112%	6.14	285.5
Hemlock SWE	1-Jan	33.7	138%	7.57	255.1
Intercept		1		138.78	138.8

1-May Forecast (KAF)

Σ 1026.7

Data Station	Sept	Nov	Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun
Climate (Stdzd SOI)									
September SOI	0.30								
Precipitation (in)									
Oct									
Headquarters, ID	0.40	4.20	4.90	5.00	5.80	8.00	2.20		
Cumulative HQSI Data	0.40	4.60	9.50	14.50	20.30	28.30	30.50		
Snow Water Equiv (First of Month values) (in)									
Elk Butte, ID				12.8	21.4	32.2	42.9		
Cool Creek, ID				16.6	28.6				
Hoodoo Basin, MT				13.3	22.2	37.3	52.3	57.4	42.3
Sherwin, ID				2.7	6.0	9.3	3.4		
Shanghi Summit, ID								20.8	0.0
Lost Lake, ID				19.8	30.0	44.9	59.6	65.2	46.5
Hemlock, ID								63.1	33.7
Crater Meadows Mar						46.9	65.1		
Streamflow (End of Month) (kaf)				Jan	Feb	Mar	Apr	May	Jun
Dworshak Inflow				132	143	678	729	1177	--

Approval:

John J. Heitstuman P.E.
Chief Hydrology Section
Walla Walla District USACE

Peter Brooks, P.E., D. WRE
Ch., Hydrologic Engineering and Power Brar
Columbia Basin Water Management Division

*Dworshak Dam official water supply forecasts are computed by Corps Walla Walla District (on previous pages).

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NF CLEARWATER - DWORSHAK DAM (DWRI1) Forecasts for Water Year 2014					
Official Forecast					
-10 days QPF: Ensemble: 2014-06-06Issued: 2014-06-06Hide Forecast					
Forecast Period	Forecasts Are in KAF				30 Year Average (1981-2010)
	90 %	50 %	% Average	10 %	
APR-SEP	3123	3226	125	3368	2575
APR-JUL	2970	3045	126	3142	2419
JAN-JUL	3921	3996	121	4093	3289
-5 days QPF: Ensemble: 2014-06-06 Issued: 2014-06-06Hide Forecast					
APR-SEP	3155	3265	127	3402	2575
APR-JUL	2991	3073	127	3223	2419
JAN-JUL	3942	4024	122	4174	3289
-0 days QPF: Ensemble: 2014-06-06 Issued: 2014-06-06Hide Forecast					
APR-SEP	3181	3275	127	3487	2575
APR-JUL	3018	3098	128	3260	2419
JAN-JUL	3969	4049	123	4211	3289
Move the mouse over the desired "Forecast Period" to display a graph.					

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* Grand Coulee Dam water supply forecasts are not used for implementation of BiOp actions.
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COLUMBIA - GRAND COULEE DAM (GCDW1)
Forecasts for Water Year 2014

Official Forecast
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Forecast Period	Forecasts Are in KAF				30 Year Average (1981-2010)
	90 %	50 %	% Average	10 %	
APR-SEP	63637	66295	110	69418	60110
APR-JUL	53964	55447	109	58187	51015
APR-AUG	59844	62157	110	65208	56763
JAN-JUL	61897	63380	106	66120	59599

-5 days QPF: Ensemble: 2014-06-06 Issued: 2014-06-06Hide
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APR-SEP	63912	67091	112	70679	60110
APR-JUL	54407	56468	111	59526	51015
APR-AUG	60228	62971	111	66354	56763
JAN-JUL	62340	64401	108	67459	59599

-0 days QPF: Ensemble: 2014-06-06 Issued: 2014-06-06Hide
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APR-SEP	64396	68607	114	71985	60110
APR-JUL	55182	57675	113	60746	51015
APR-AUG	60961	64184	113	67583	56763
JAN-JUL	63115	65608	110	68679	59599

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

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6/9/2014

Libby : June Runoff Forecast & Flood Control Calculation**WY 2014****Runoff Forecast and Flood Control**

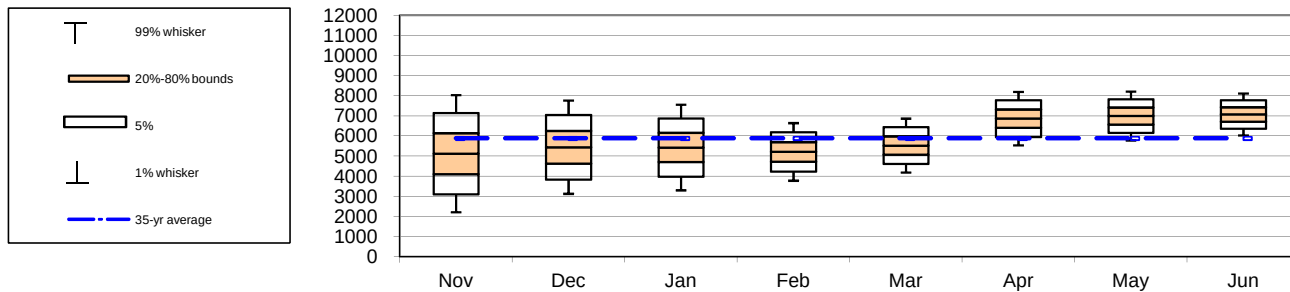
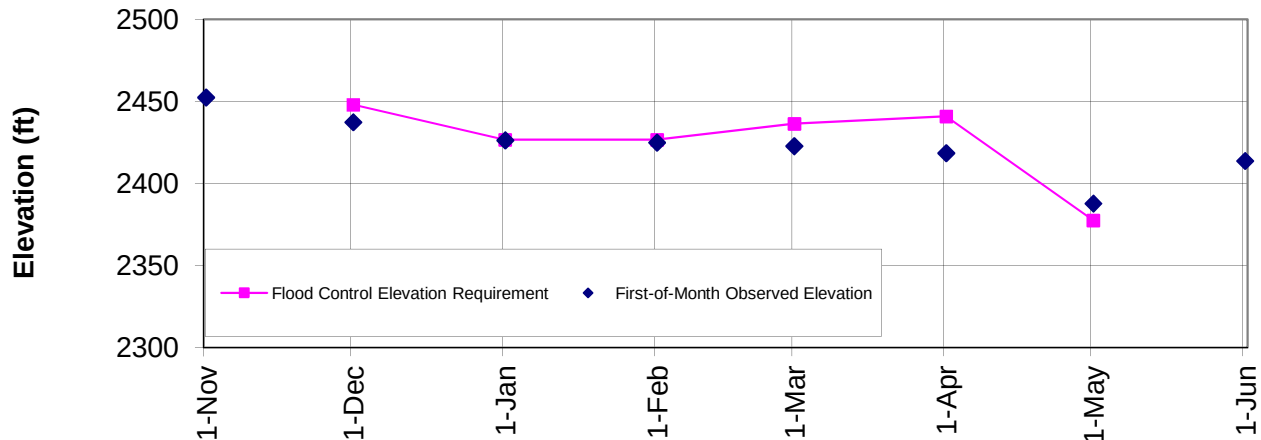
Most Probable Runoff Volume:	Apr-Aug	7074	KAF
	Apr-Jul	6425	KAF
	May-Jul	5964	KAF

1981-2010 Average	Percent of Average	1929-2008 Average	Percent of Average
5885	120%	6282	113%
5342	120%	5720	112%
4821	124%	5199	115%

Seasonal Flood Control**VARQ Flood Control Implemented**

Forecast Date >>	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Apr-Aug Runoff Forecast	5125	5446	5432	5213	5528	6868	6996	7074
First-of-Month Elev	2452.5	2437.4	2426.3	2424.9	2422.8	2418.6	2387.9	2413.8

Date >>	30-Nov	31-Dec	31-Jan	28-Feb	31-Mar	30-Apr
Flood Control Space	500	1400	1400	1000	809	3051
Flood Control Elevation	2448.0	2426.7	2426.7	2436.4	2440.9	2377.6

Spread of values around expected forecast**Libby Flood Control Elevations - 2014****Latest water supply forecast: Jun****Notes:**

1. The given forecast is the official Corps of Engineers forecast for Libby. If you have any questions please contact Joel Fenolio (206) 764-6683, Kevin Shaffer (206) 764-3660, Adam Price (206) 764-3604, or Kristian Mickelson (206) 764-6927.
2. If a prior month's forecast as published in this document is different than what was originally published in the issue month, then the earlier forecast has been adjusted to reflect updated values for precipitation or streamflow.

Libby : June Runoff Forecast & Flood Control Calculation

Apr-Aug Runoff Forecast Calculation:						
Variable	Month(s)	Units	Observed Value	Percent of Average	Regression Coefficient	Marginal Runoff (KAF)
			A		B	=A*B
QBO	Σ Jan:Mar		-4.45		-1.8	8.1
PNA	Σ Oct:Jan		-1.92		-72.4	139.0
West Glacier, MT	Σ Jan:May Prcp	inches	16.09	127%	87.2	1403.7
Fernie, BC	Σ Jan:May Prcp	inches	18.54	92%	35.9	665.8
East Creek, BC	1-Jun SWE	inches	29.84	105%	21.9	654.6
Stahl Peak, MT	1-Jun SWE	inches	36.90	134%	22.0	813.5
Gardiner Creek, AB	1-Jun SWE	inches	19.06	139%	16.3	309.7
Intercept			1		526.2	526.2
1-June Jun-Aug Forecast (KAF)						Σ 4520.6
Libby Inflow (KAF)	April	461	88%	May	2092	132%
1-June Apr-Aug Forecast (KAF)						7073.5

Data used in Libby Water Supply Forecast

WY 2014

Climate Data	Jan-13	Feb-13	Mar-13	Jun-13	Jul-13	Oct-13	Nov-13	Dec-13	Jan-14
SOI				1.20	0.80				
QBO	-6.07	-1.23	2.85						
PNA						-0.21	-1.14	-1.16	0.59
Precipitation Data	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Units
Eureka, MT	0.37	1.16	0.77	1.06	0.73				inch
Libby 1 NE RS, MT	0.59	2.22	1.20	1.08	1.96				inch
West Glacier, MT	0.55	4.31	2.66	3.37	2.05	6.49	2.17	2.01	inch
Fernie, BC	27.50	128.50	210.00	91.50	64.00	161.81	27.47	126.02	mm
Snow Water Equiv	1-Jan			1-Feb	1-Mar	1-Apr	1-May	1-Jun	Units
Floe Lake, BC			274	408	519				mm
Sunshine Village, AB			236	329	409	593	644		mm
East Creek, BC			335	471	581	910	1167	758	mm
Stahl Peak, MT			15	21	26	40	44	37	inch
Gardiner Creek, AB			257	352	488	753	810	484	mm
Three Isle Lake, AB			213	279	352	522			mm
Lost Creek South, AB			273	408	535				mm
Morrissey Ridge, BC			286	401	537				mm
Hawkins Lake, MT			8	14	20				inch
Streamflow	Jan			Feb	Mar	Apr	May	Jun	Units
Libby Inflow Volume			190.4	137.7	255.5	460.6	2092.4		KAF
Reservoir Elevation	1-Nov	1-Dec	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun	Units
Libby FOM Elev	2452.5	2437.4	2426.3	2424.9	2422.8	2418.6	2387.9	2413.8	feet

for:

Peter F. Brooks, P.E., D. WRE
 Approving Official
 Ch., Hydrologic Engineering and Power Branch
 Northwestern Division

Joel Fenolio, P.E.
 Upper Columbia Senior Water Manager
 Seattle District

*Libby Dam official water supply forecasts are computed by Corps Seattle District (on previous pages).
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KOOTENAI - LIBBY DAM (LYDM8)
Forecasts for Water Year 2014

Official Forecast
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Forecast Period	Forecasts Are in KAF				30 Year Average (1981-2010)
	90 %	50 %	% Average	10 %	
APR-SEP	6906	7250	116	7892	6254
APR-JUL	5963	6218	116	6701	5342
APR-AUG	6510	6883	117	7473	5885
JAN-JUL	6546	6801	113	7284	6002

-5 days QPF: Ensemble: 2014-06-06 Issued: 2014-06-06Hide Forecast

APR-SEP	6875	7239	116	7934	6254
APR-JUL	5942	6239	117	6820	5342
APR-AUG	6509	6842	116	7548	5885
JAN-JUL	6525	6822	114	7403	6002

-0 days QPF: Ensemble: 2014-06-06 Issued: 2014-06-06Hide Forecast

APR-SEP	6963	7382	118	8118	6254
APR-JUL	6098	6411	120	7058	5342
APR-AUG	6650	7003	119	7733	5885
JAN-JUL	6681	6994	117	7641	6002

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6/9/2014

June 4, 2014

Hungry Horse Dam

Here are the volumes for the June final forecast for Hungry Horse inflow:

Jun - Jul: 1,100 kaf (127%)

Jan - Jul: 2,567 kaf (122%)

Apr - Aug: 2,463 kaf (127%)

May - Sep: 2,243 kaf (132%)

The minimum flows downstream of Hungry Horse are as follows:

Columbia Falls: 3,500 cfs

Hungry Horse: 900 cfs

Mary Mellema

River and Reservoir Operations

U.S. Bureau of Reclamation

PN Regional Office

Boise, ID 83706

*Hungry Horse Dam official water supply forecasts are computed by Bureau of Reclamation (on previous page).
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SF FLATHEAD - HUNGRY HORSE DAM (HHWM8)
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Official Forecast
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Forecast

Forecast Period	Forecasts Are in KAF				30 Year Average (1981-2010)
	90 %	50 %	% Average	10 %	
APR-SEP	2351	2464	124	2600	1988
APR-JUL	2241	2334	125	2468	1871
APR-AUG	2304	2395	124	2553	1936
JAN-JUL	2422	2515	120	2649	2098

-5 days QPF: Ensemble: 2014-06-06 Issued: 2014-06-06Hide
Forecast

APR-SEP	2398	2499	126	2658	1988
APR-JUL	2273	2372	127	2525	1871
APR-AUG	2332	2436	126	2606	1936
JAN-JUL	2454	2553	122	2706	2098

-0 days QPF: Ensemble: 2014-06-06 Issued: 2014-06-06Hide
Forecast

APR-SEP	2429	2565	129	2741	1988
APR-JUL	2313	2425	130	2608	1871
APR-AUG	2381	2505	129	2693	1936
JAN-JUL	2494	2606	124	2789	2098

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

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PEND OREILLE - ALBENI FALLS DAM (ALFW1) Forecasts for Water Year 2014					
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Forecast Period	Forecasts Are in KAF				30 Year Average (1981-2010)
	90 %	50 %	% Average	10 %	
APR-SEP	14669	15161	118	15946	12815
APR-JUL	13525	13992	119	14660	11777
APR-AUG	14156	14625	118	15419	12354
JAN-JUL	15816	16283	115	16951	14189
-5 days QPF: Ensemble: 2014-06-06 Issued: 2014-06-06Hide Forecast					
APR-SEP	14892	15343	120	16321	12815
APR-JUL	13755	14126	120	15044	11777
APR-AUG	14363	14806	120	15797	12354
JAN-JUL	16046	16417	116	17335	14189
-0 days QPF: Ensemble: 2014-06-06 Issued: 2014-06-06Hide Forecast					
APR-SEP	15136	15606	122	16934	12815
APR-JUL	14012	14412	122	15543	11777
APR-AUG	14624	15096	122	16361	12354
JAN-JUL	16303	16703	118	17834	14189
Move the mouse over the desired "Forecast Period" to display a graph.					

☐ Link to image of plot

☐ Max Scale ☒ Scale To Data ☐ Scale To Last 45 Days

Overlay

☐ ESP10 ☐ ESP5 ☐ ESP0

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ESP10,ESP5,ESP0
ESP10,ESP5,ESP0
Last Forecast