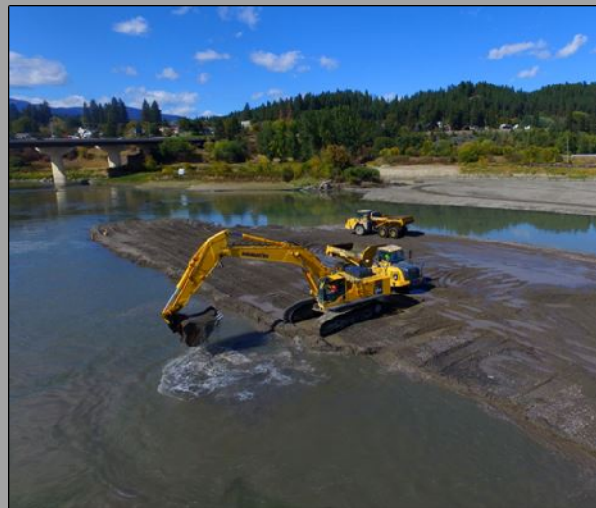


LIBBY DAM STURGEON AND SUMMER OPERATIONS

May 10th, 2017
TMT Meeting



Aerial view of construction of the Kootenai River Habitat Restoration Program's Bonners Ferry Islands project, taken September 2015. Part of this project involves dredging three deep pools in the river, with dredged material used to help build the islands.

(Photo Courtesy Kootenai Tribe of Idaho)



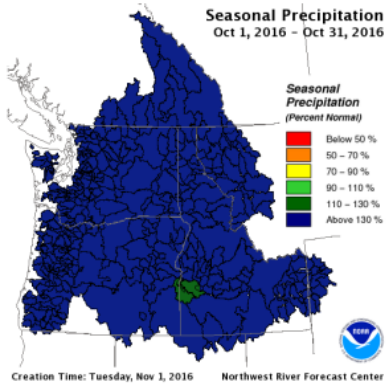
"The views, opinions and findings contained in this report are those of the author(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other official documentation."



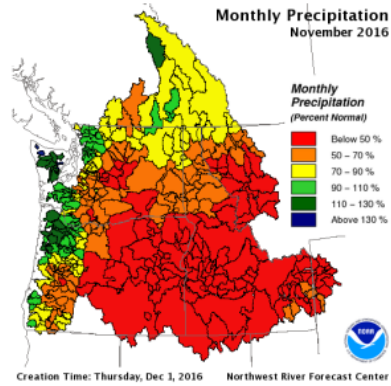
**US Army Corps
of Engineers** ®



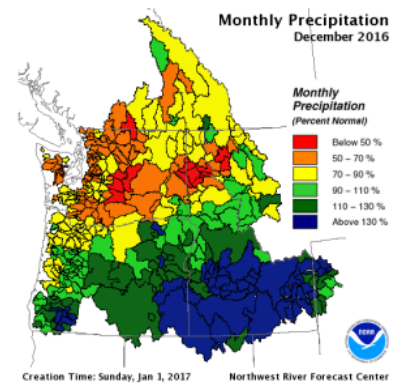
PRECIPITATION BY MONTH



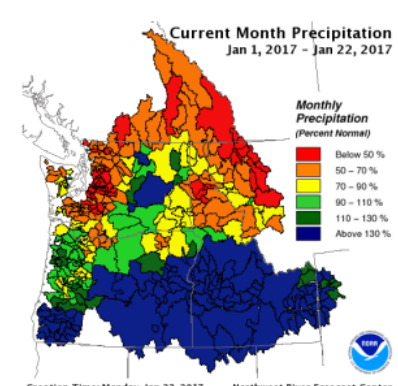
October



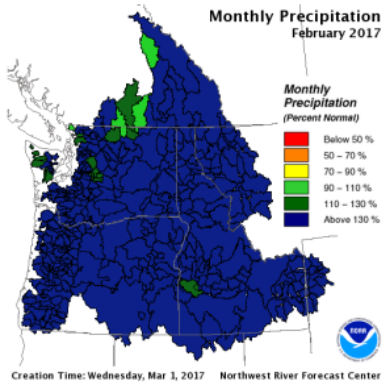
November



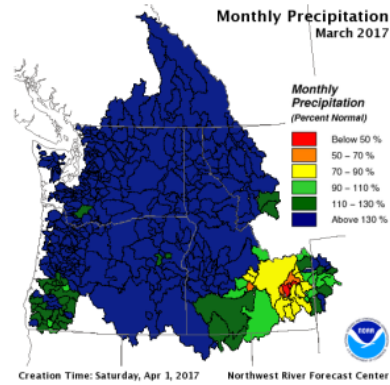
December



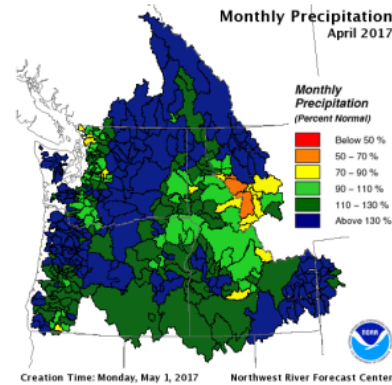
January



February



March



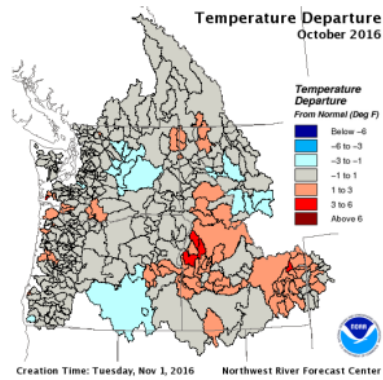
April



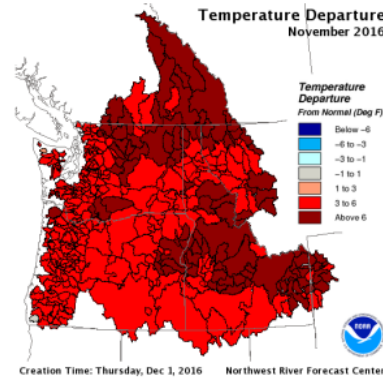
**US Army Corps
of Engineers** ®



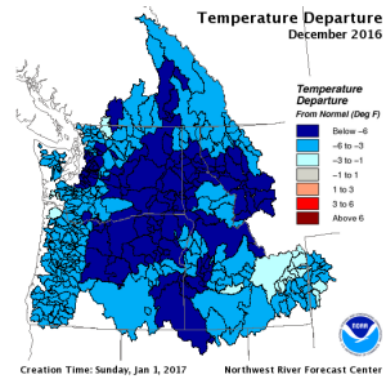
Coldest winter since 1992 or 1984
TEMPERATURES BY MONTH



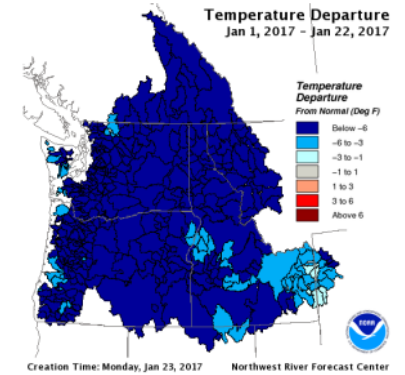
October



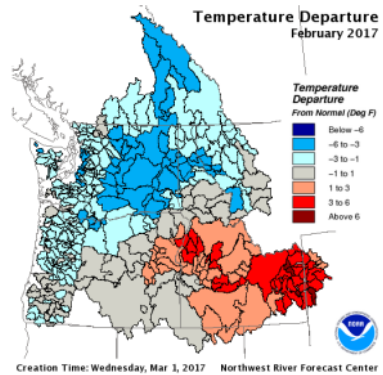
November



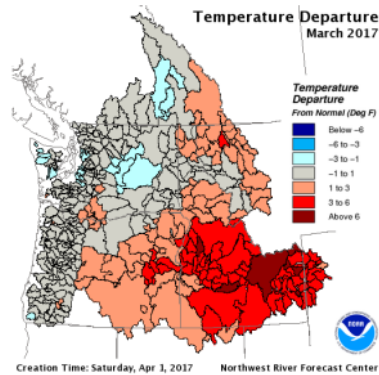
December



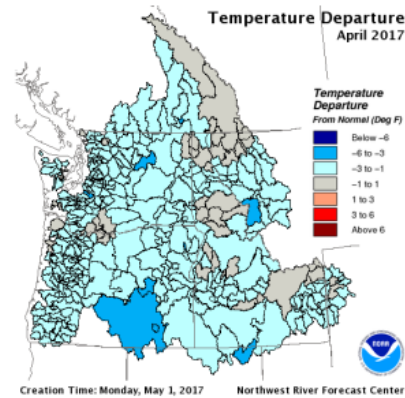
January



February



March



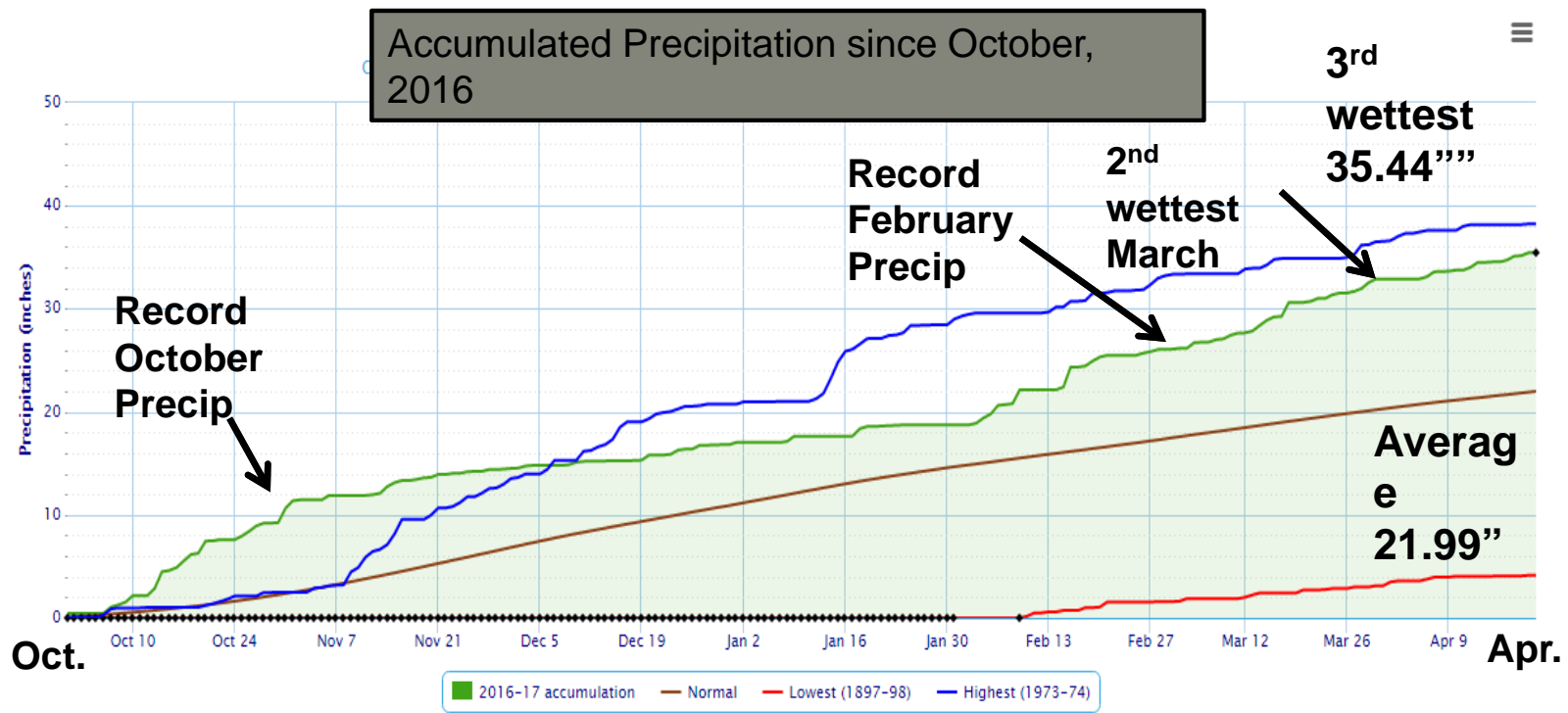
April



US Army Corps of Engineers®



PRIEST RIVER RECORDS (SINCE 1898)



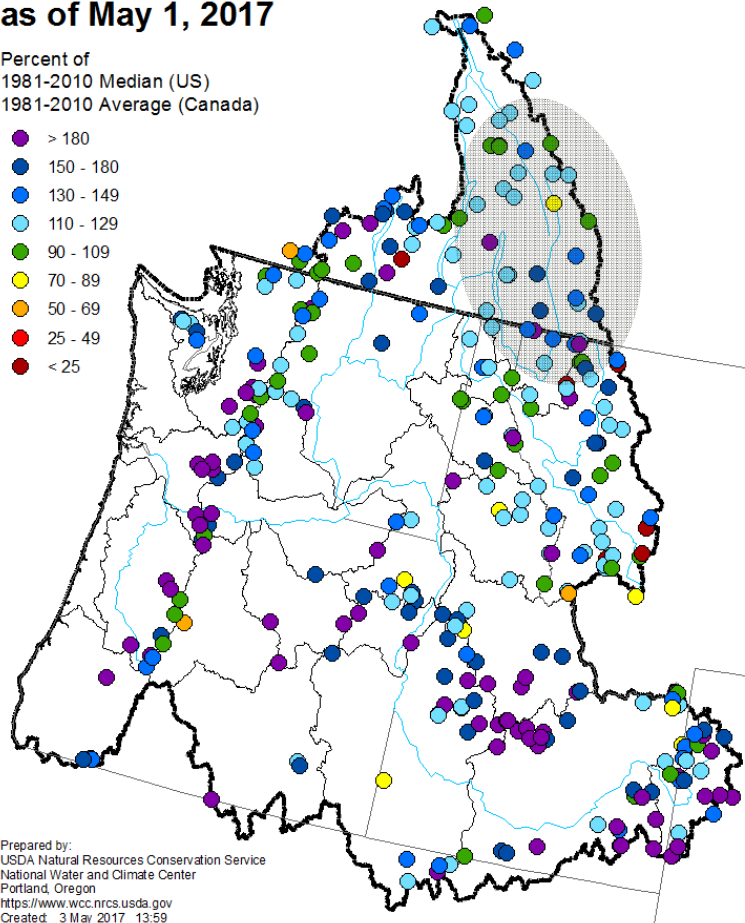
US Army Corps of Engineers®



Columbia River and Pacific Coastal Basins Mountain Snowpack as of May 1, 2017

Percent of
1981-2010 Median (US)
1981-2010 Average (Canada)

- > 180
- 150 - 180
- 130 - 149
- 110 - 129
- 90 - 109
- 70 - 89
- 50 - 69
- 25 - 49
- < 25



Prepared by:
USDA Natural Resources Conservation Service
National Water and Climate Center
Portland, Oregon
<https://www.wcc.nrcs.usda.gov>
Created 3 May 2017 13:59

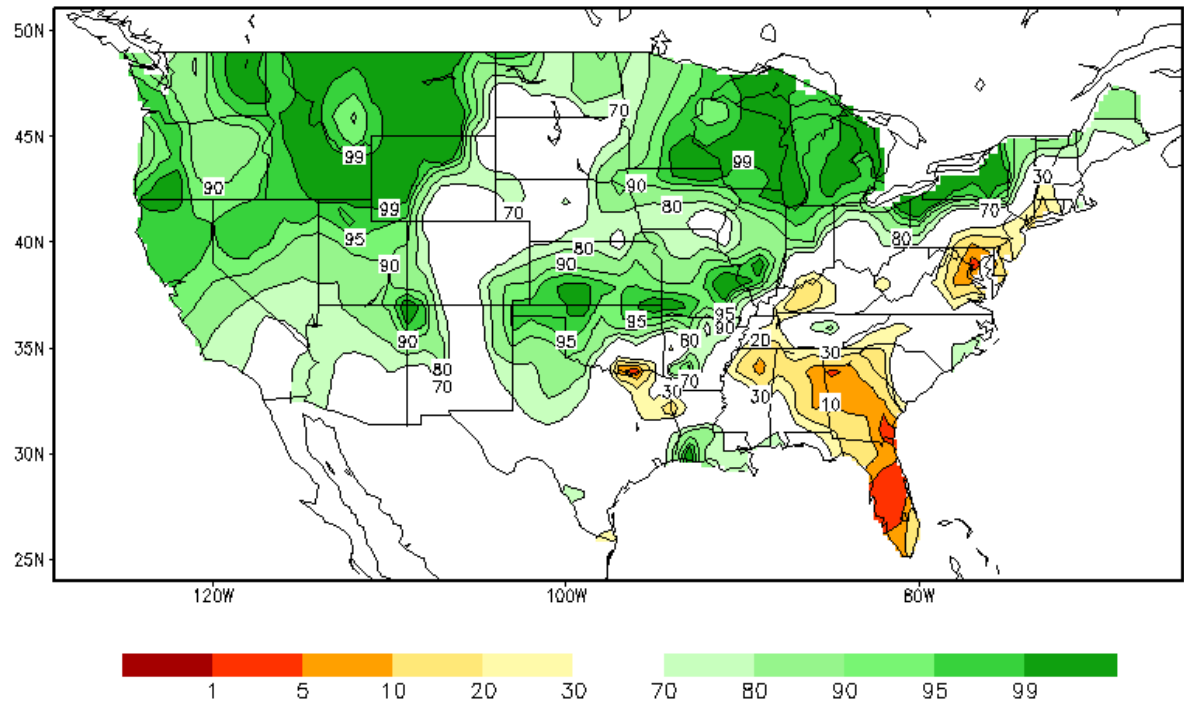


**US Army Corps
of Engineers** ®



SOIL MOISTURE

Calculated Soil Moisture Ranking Percentile
MAY 04, 2017



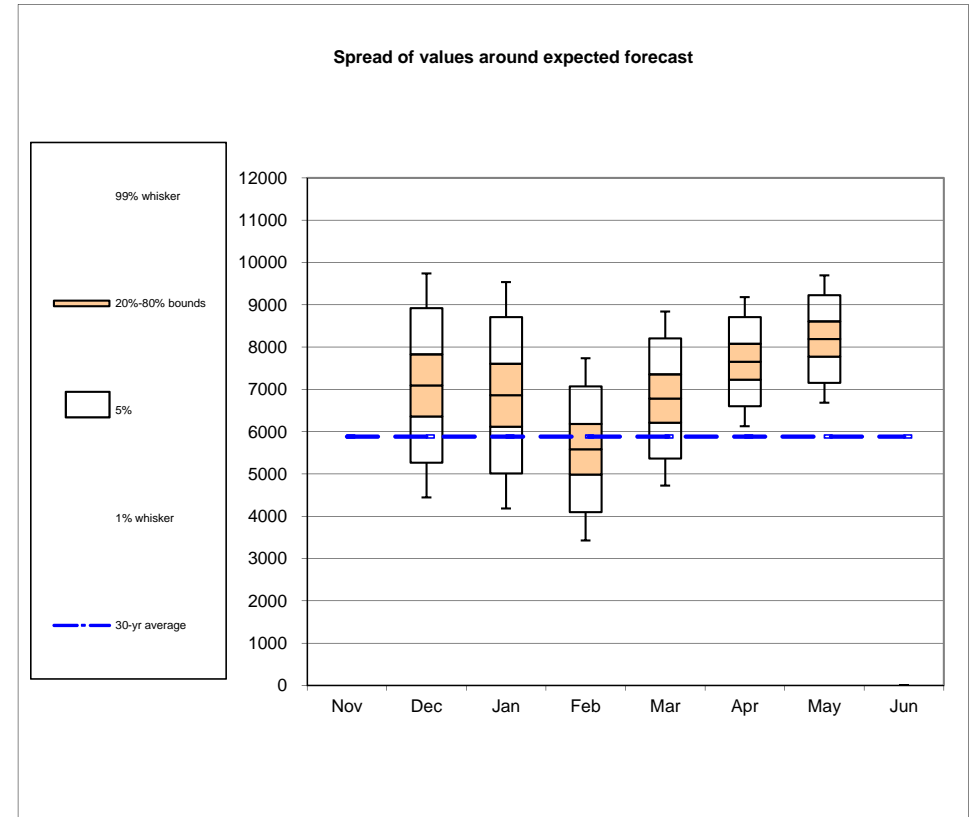
US Army Corps
of Engineers ®



U.S. ARMY

MAY 1ST WATER SUPPLY FORECAST AND BIOP OBJECTIVES

- Libby Apr-Aug Inflow Forecast 8.2 MAF (140% of average)
 - Sturgeon Volume is 1.2 MAF
 - Bull trout minimum after the Sturgeon Pulse – Aug 31 is 9 kcfs
 - Current VarQ Flow 15.9 kcfs
- The Dalles WSF 110 MAF
 - Draft to 10 ft from full (2449 ft) end of Sept



OPERATIONS TO SUPPORT KTOI REQUEST

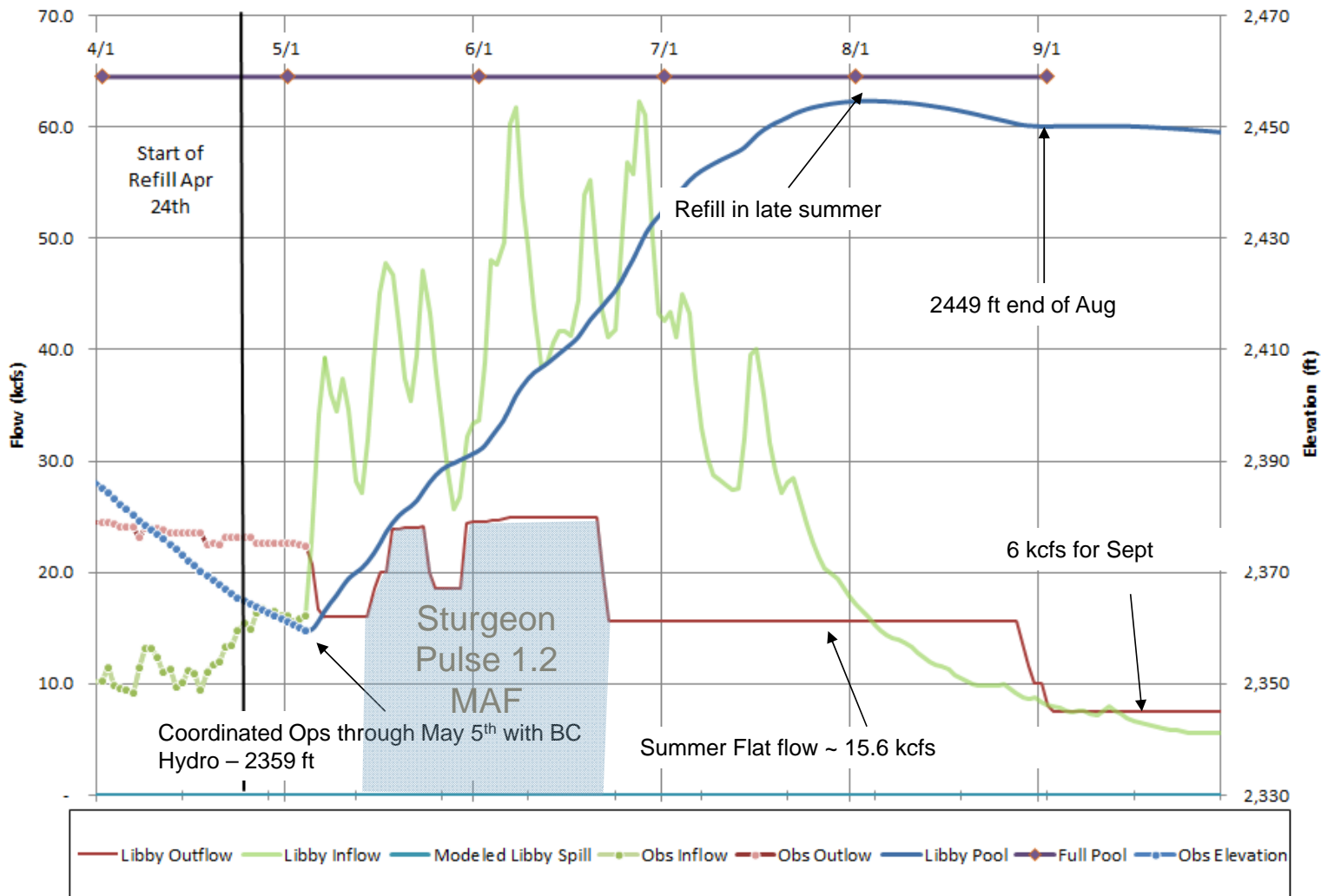
- Operate to 6 kcfs in Sept
- Need reservoir to 2449 ft end of August
 - Sept Ave inflow ~6 kcfs
- Look to refill Libby Dam late July to Early August



US Army Corps
of Engineers ®



Libby Dam ESP trave for 2012 8.2 MAF



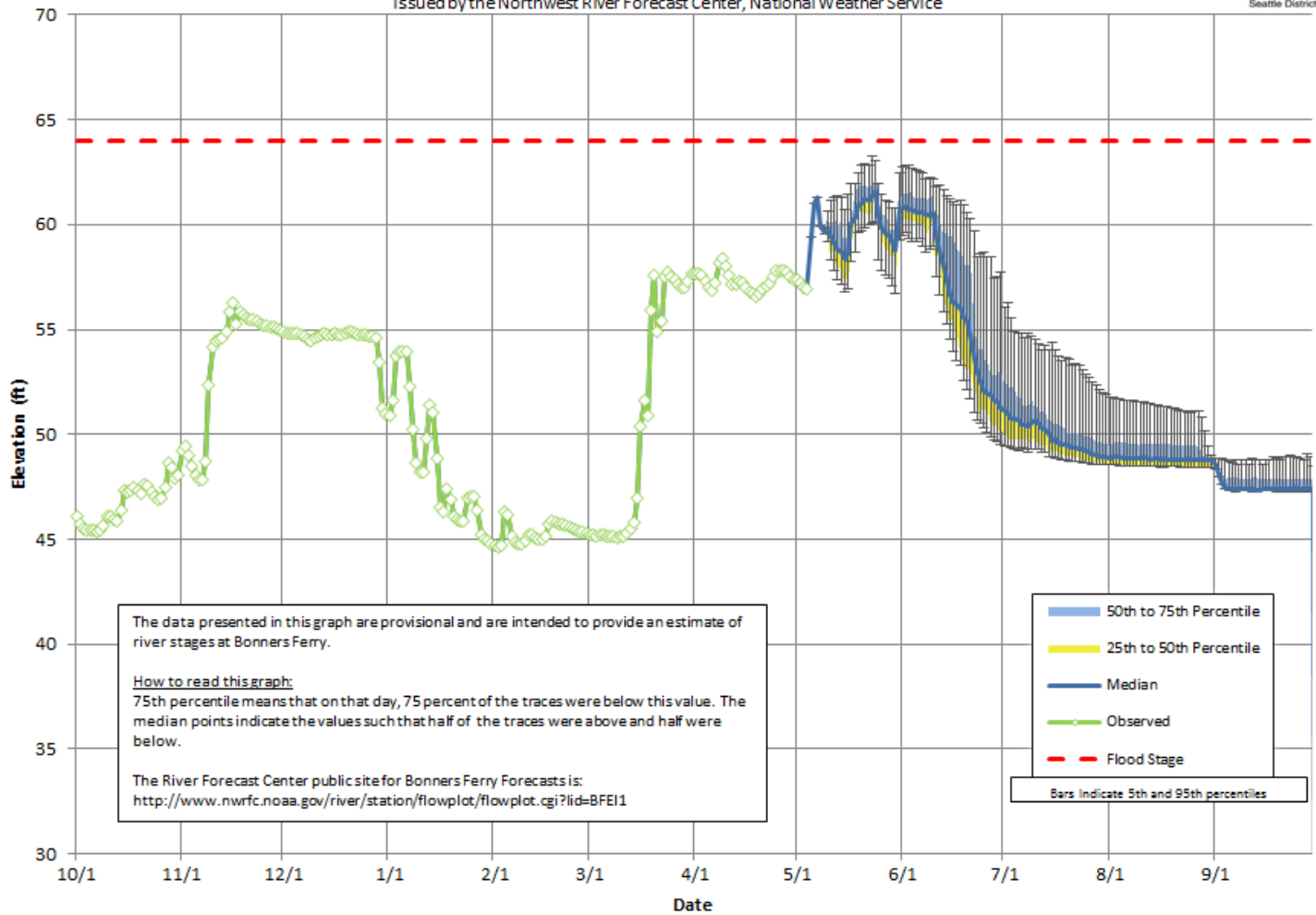
US Army Corps of Engineers®



Modeled using current ESP traces as of 05/05/17

Bonniers Ferry Stage

Corps of Engineers Projections Based on the 67 Ensemble Streamflow Prediction Traces
Issued by the Northwest River Forecast Center, National Weather Service



US Army Corps of Engineers®



QUESTIONS?



**US Army Corps
of Engineers** ®



U.S. ARMY ®