

Rogue River Basin Project 2013 Water Management Plan

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Portland District

May 2013



US Army Corps of Engineers
BUILDING STRONG®



Why we store and release water

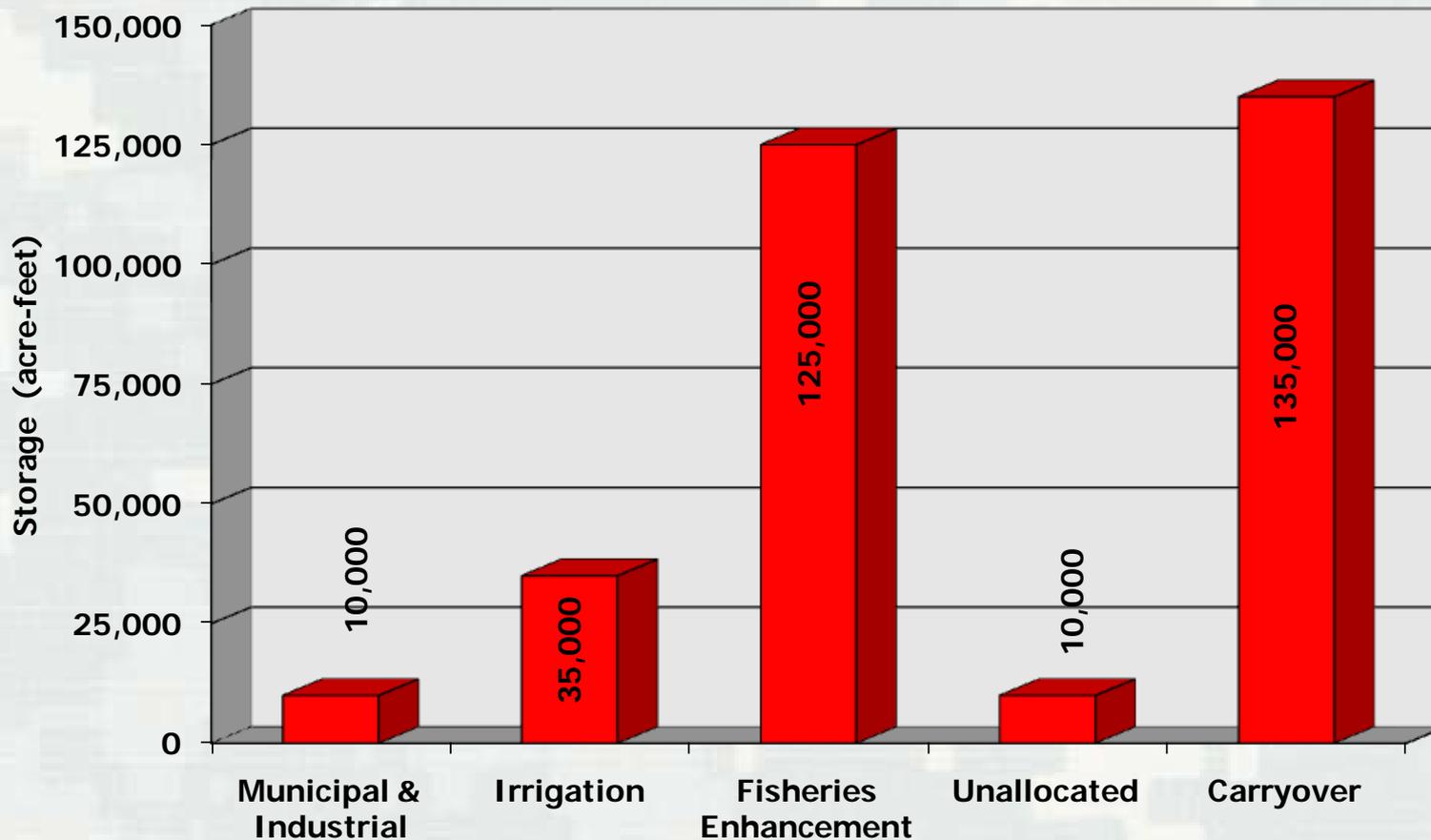
- Flood damage reduction
- Fish & wildlife
- Irrigation
- Municipal & industrial water ☆
- Recreation
- Water quality
- Hydropower ☆



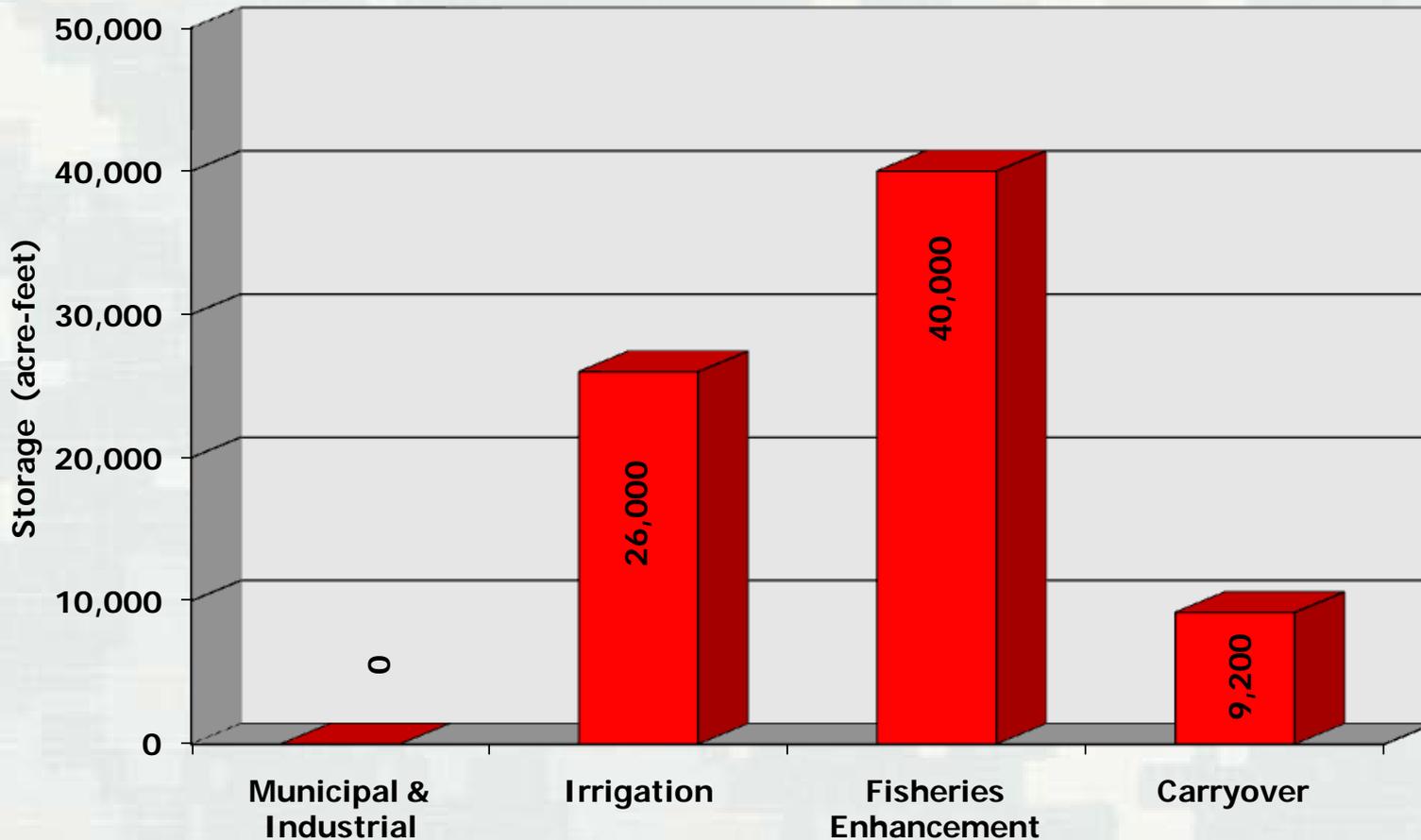
☆ At Lost Creek only



How much water do we store? Lost Creek Reservoir



How much water do we store? Applegate Reservoir



Coordinating agencies

- Oregon Water Resources Department
- Oregon Department of Fish and Wildlife
- Oregon State Marine Board
- Oregon Department of Environmental Quality
- National Marine Fisheries Service
- National Weather Service
- US Fish & Wildlife Service
- US Forest Service
- US Bureau of Land Management
- US Bureau of Reclamation
- US Geological Survey
- Natural Resource Conservation Service
- Counties



Water Supply Estimate

Natural Resources Conservation Service

Lost Creek Lake

May-Sep 2013

Forecast inflow volume to the reservoir

380,000 acre-feet

77% of Average

(2012: actual volume was 578,000 acre-feet)



Water Supply Estimate

Natural Resources Conservation Service

Applegate Lake

May-Sep 2013

Forecast inflow volume to the reservoir

51,000 acre-feet

68% of Average

(2012: actual volume was 81,000 acre-feet)



Lost Creek 2013 Release Recommendations from the State of Oregon

Date	Flow Requested	2012 Observed Releases
May 11 – May 31	2,500 cfs	2,600 - 3,500 cfs
Jun 01– Jun 10	2,800 cfs	3,000 cfs
Jun 11 – Jun 20	2,600 cfs	3,000 - 3,100 cfs
Jun 21 – Jun 30	2,200 cfs	2,900 - 3,100 cfs
July 01 – Aug 10	1,500 cfs	2,200 - 2,900 cfs
Aug 11 – Sep 10	1,800 cfs	1,600 - 2,200 cfs
Sep 11 – Sep 20	1,050 cfs	1,300 -1,500 cfs
Sep 21 – Sep 30	1,000 cfs	1,150 - 1,300 cfs
Oct 01– Oct 31	900 cfs	1,150 cfs



Lost Creek Lake Pool Elevations (Observed)

Year	Memorial Day Ft	Fourth of July Ft	Labor Day Ft
2001	1841.0	1826.2	1792.8
2008	1866.8	1867.8	1824.0
2009	1872.0	1855.5	1819.3
2010	1871.8	1867.9	1821.4
2011	1869.6	1871.6	1813.8
2012	1872.0	1857.1	1818.9

2013 Estimated Pool Elevations

1865.5 – 1867 ft

1844 – 1849 ft

1814 – 1820 ft



Applegate 2013 Release Recommendations from the State of Oregon

Date	Flow Requested	2012 Observed Releases
May 11 – May 20	560 cfs	430 – 650 cfs
May 21 – May 31	350 cfs	440 – 650 cfs
Jun 01 – Jun 10	300 cfs	440 – 500 cfs
Jun 11 – Jun 20	275 cfs	300 – 350 cfs
Jun 21 – Sep 30	270 cfs	250 – 350 cfs
Oct 01 – Nov 10	280 cfs	150 – 250 cfs
Nov 11 – Nov 20	250 cfs	150 – 160 cfs
Nov 21 – Nov 30	150 cfs	160 - 1,200 cfs



Applegate Lake Pool Elevations (Observed)

<u>Year</u>	<u>Mem. Day</u> Ft	<u>July 4th</u> Ft	<u>Labor Day</u> Ft
2001	1904.3	1903.6	1894.1
2008	1984.5	1984.3	1950.8
2009	1986.7	1982.0	1949.4
2010	1986.8	1986.8	1937.9
2011	1985.3	1986.9	1945.5
2012	1986.5	1980.8	1941.4

2013 Estimated Pool Elevations

1984 – 1986 ft

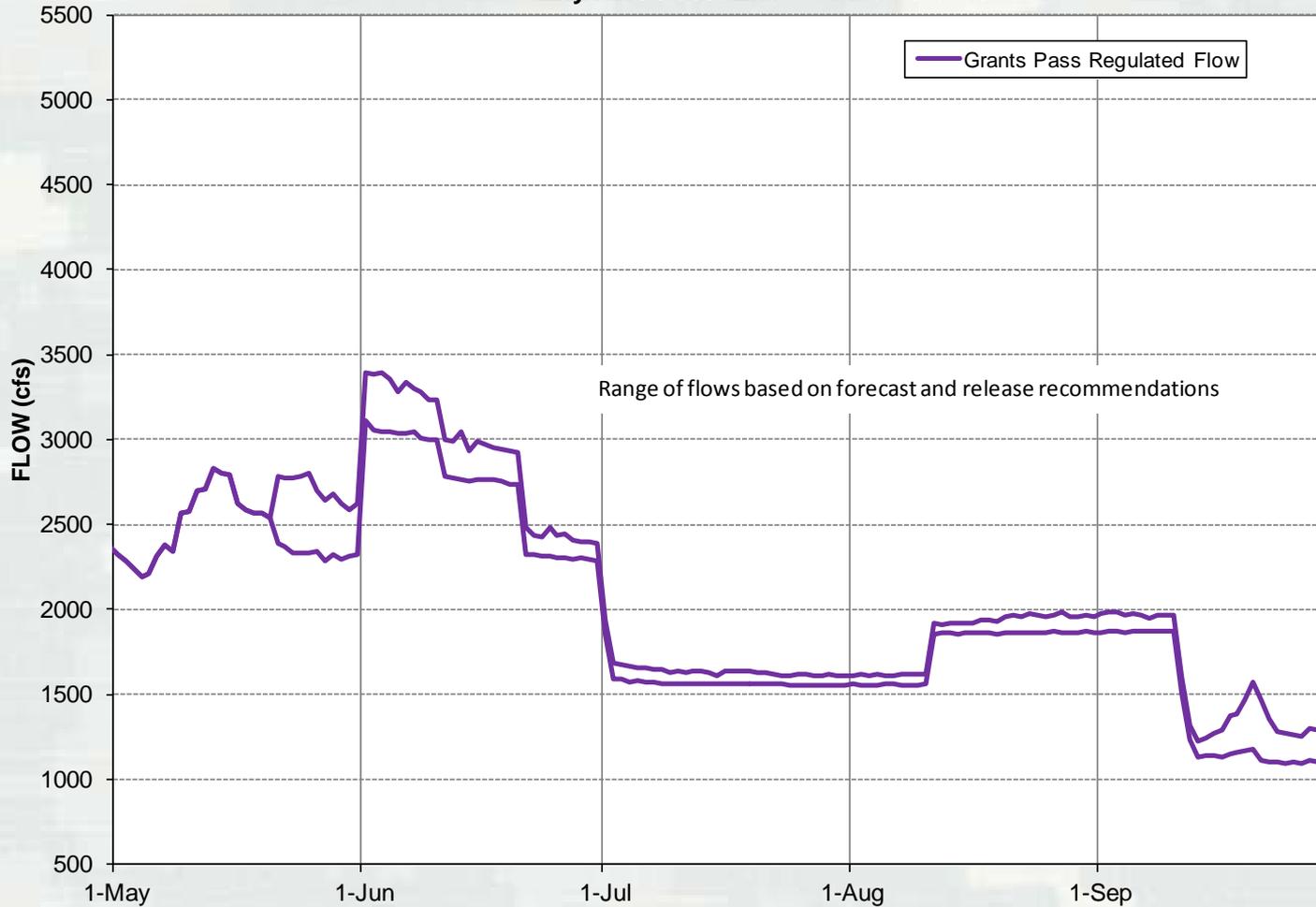
1976.5 – 1981 ft

1943 – 1949 ft



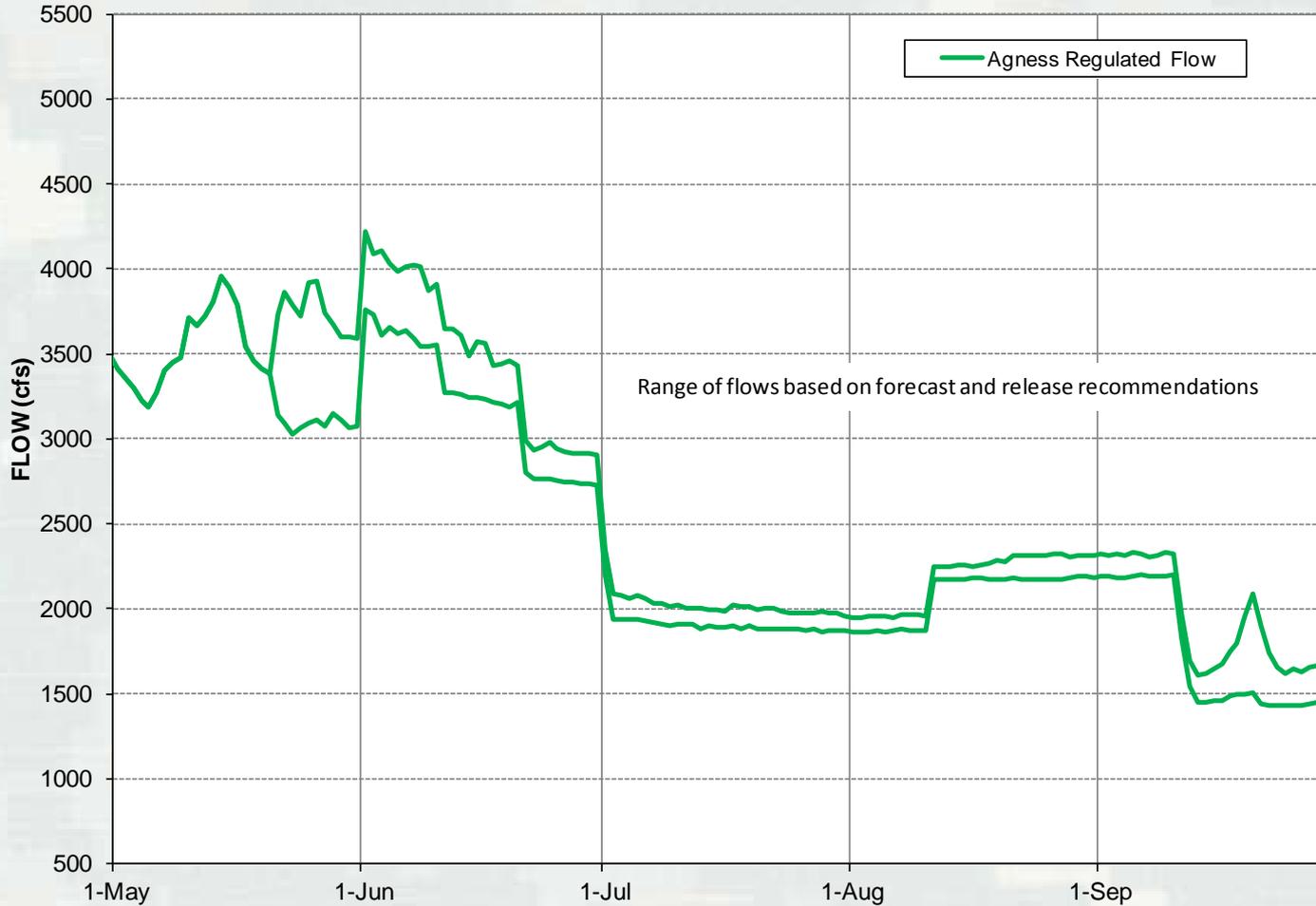
Forecast Downstream Flows

ROGUE RIVER at Grants Pass
2013 Forecast Flows
May NRCS 50% Exceedance Forecast



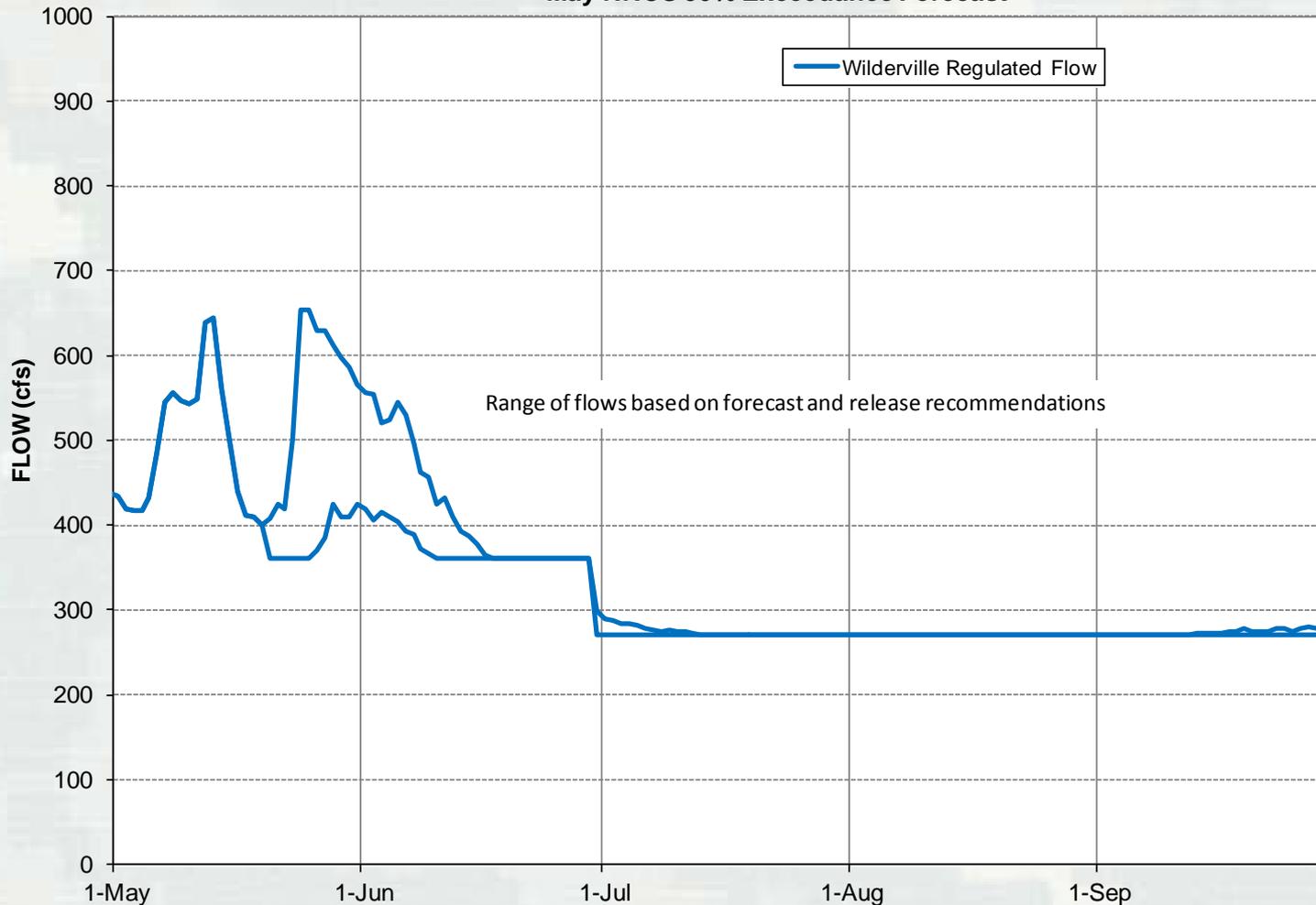
Forecast Downstream Flows

ROGUE RIVER nr Agness
2013 Forecast Flows
May NRCS 50% Exceedance Forecast



Forecast Downstream Flows

APPLEGATE RIVER nr Wilderville
2013 Forecast Flows
May NRCS 50% Exceedance Forecast



Range of flows based on forecast and release recommendations



Summary of Key Points

- Conditions are dry but should have sufficient water to meet authorized purposes
- Releases and lake elevations will be lower than last year
 - ▶ Plan to have Lost Creek drawn down to or below elevation 1,812 feet (normal minimum pool) by Sep. 20
 - ▶ Stewart boat ramp should be usable through Labor Day
 - ▶ Takelma boat ramp will remain usable



Useful links

Rogue and Applegate flow information:

<http://www.nwrfc.noaa.gov>

Rogue weather information:

<http://www.wrh.noaa.gov/mfr/>

Reservoir information:

<http://www.nwd-wc.usace.army.mil/nwp/teacup/rogue/>



Comments or questions?

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