



Program Science Metrics/Objectives /Targets

APRIL 2019 TMC

WGs are actively:

- ▶ Identifying and justifying objectives to be dropped
 - ▶ Is it something measured or measureable by the TRRP?
- ▶ Align objectives with TRRP
 - ▶ Is there science to justify a specific target?
- ▶ Define clear and measureable targets to assess retained objectives
- ▶ Prioritize objectives for refinements completion
- ▶ Assigning management actions to influence/achieve targets
- ▶ All with an eye on demonstration of targets assessment at September TMC

Flow WG: flows are a means to achieve objectives

Means Objective	Metric/Target
Release allocated flow volumes by water year class and implement prescribed hydrographs	• Extremely Wet WY 815.2k AF • Wet WY 701.0k AF • Normal WY 646.9k AF • Dry WY 452.6k AF • Critically Dry WY 368.6k AF
	Flow release volumes by water-year class should be released from Lewiston dam to within $\pm 5\%$ of the allocated volume. Sub-daily flows should be implemented to within $\pm 5\%$.
Provide flows that inundate ephemeral surfaces above the winter baseflow channel for variable durations to meet ecological needs	Inundate ephemeral habitats for 35 to 84 days between January 1 and May 1 for fish prey food production and groundwater recharge; inundate floodplain surfaces $< 4,500$ cfs for ≥ 21 days to facilitate natural riparian regeneration between May 1 and June 20.

Fish WG Examples

- ▶ Recommended for removal
 - ▶ Minimize fry stranding
- ▶ Defined as not quantified to measure program success (no target)
 - ▶ Increase naturally produced green sturgeon adult production to the extent necessary to meet or exceed escapement objectives and facilitate expanded harvest opportunity.
- ▶ Target defined
 - ▶ Increase naturally produced fall-run Chinook salmon adult production to the extent necessary to meet or exceed escapement objectives and facilitate expanded harvest opportunity.
 - ▶ Target: Increase escapement of naturally produced fall-run Chinook salmon to 62,000 adults.

Physical WG examples

- ▶ Recommend for removal
 - ▶ Increase the size, frequency, and topographic relief of bar/pool sequences
 - ▶ why? Overlap with other objectives
- ▶ Progression towards target completion
- ▶ Objective: Increase geomorphic unit and substrate patch diversity
 - ▶ Target: Achieve [a certain number of] active bar areas, floodplains, and secondary channels with relevant particle size distributions.