Welcome!
Bitterroot
Stakeholder
Meeting

Monday February 28, 2022





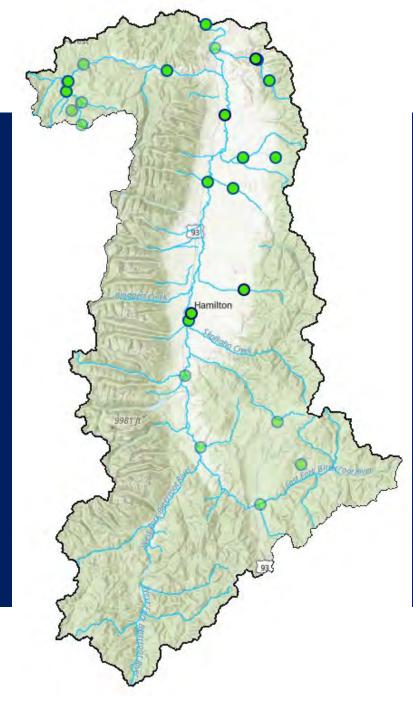


Bitterroot Focus Watershed approach began in 2019 **GOAL**: improve water quality, and demonstrate the success of our program, by generating momentum in the community and tracking interim indicators of success

- Technical resources and monitoring support
- Funding projects

During Focus Watershed (2019-2022): \$1.5 million awarded to 6 different organizations, putting 15 projects on the ground.



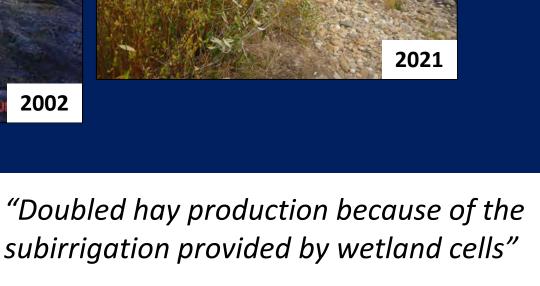


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Learning from past projects



2002



2017





'Good, cold water:' Riparian restoration preserves trout sanctuary

PATRICK REILLY, February 13, 2020

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Sharing success stories





aggoes site in Stevenswille



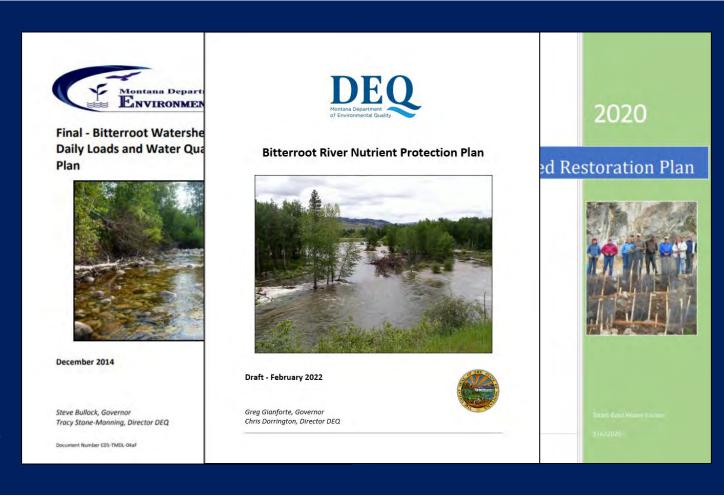


Questions?



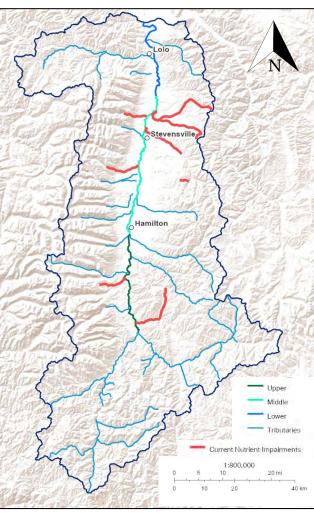
What is a protection plan?

- Montana Constitution: "The state and each person shall <u>maintain</u> and improve a clean and healthful environment"
- Goal: minimize or avoid water quality degradation from stressors that may threaten the current condition
- Nonregulatory
- Protection avoids costs of lost revenue, expanding restoration, regulation



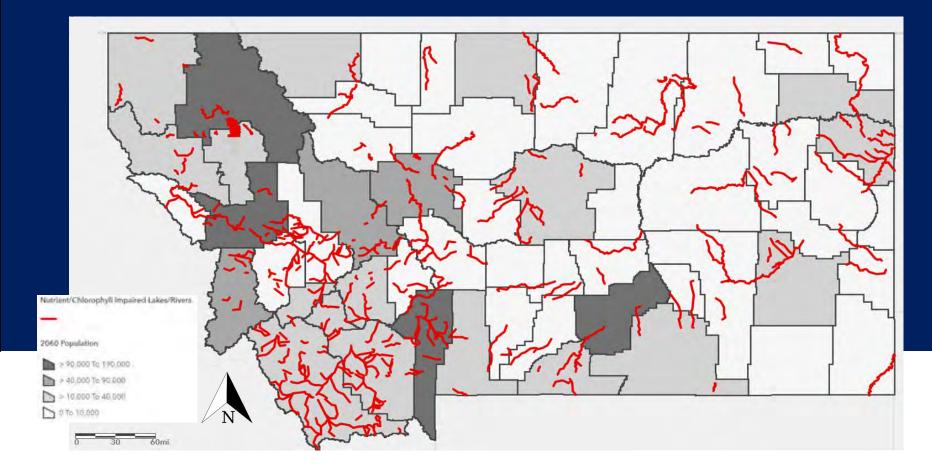


Why write one for the Bitterroot?

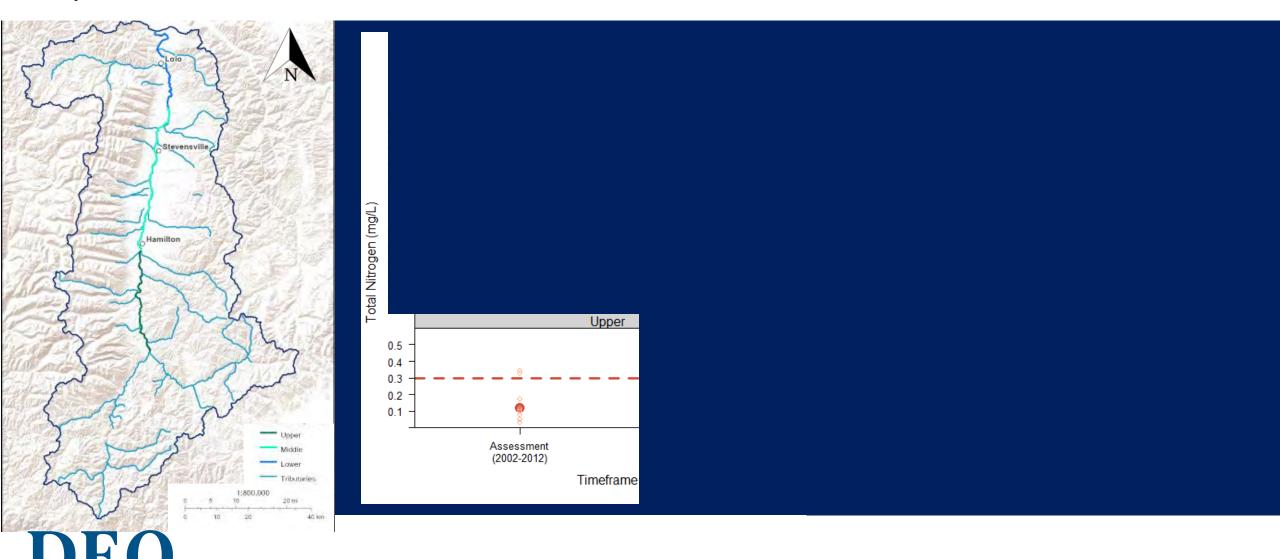


DEQ.
MONTANA

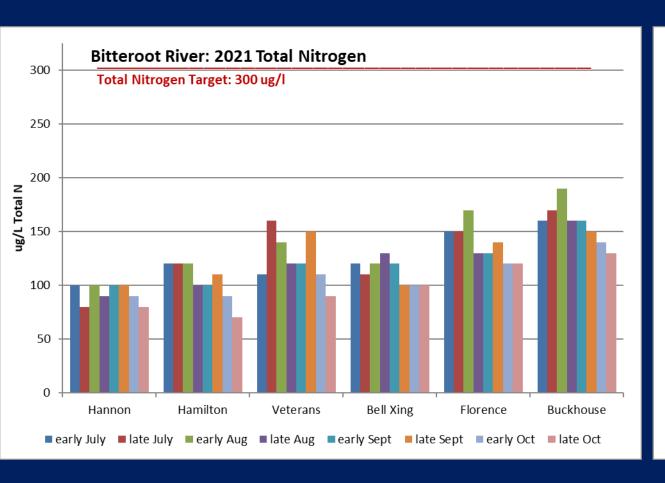
- One of the fastest growing populations in the state
- A number of tributaries impaired by nutrients
- The Bitterroot River is *not* yet impaired for nutrients

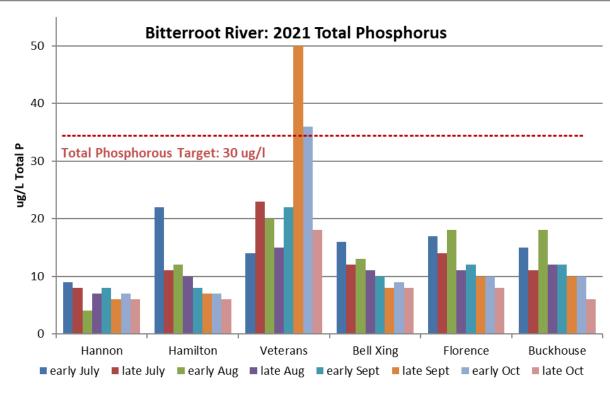


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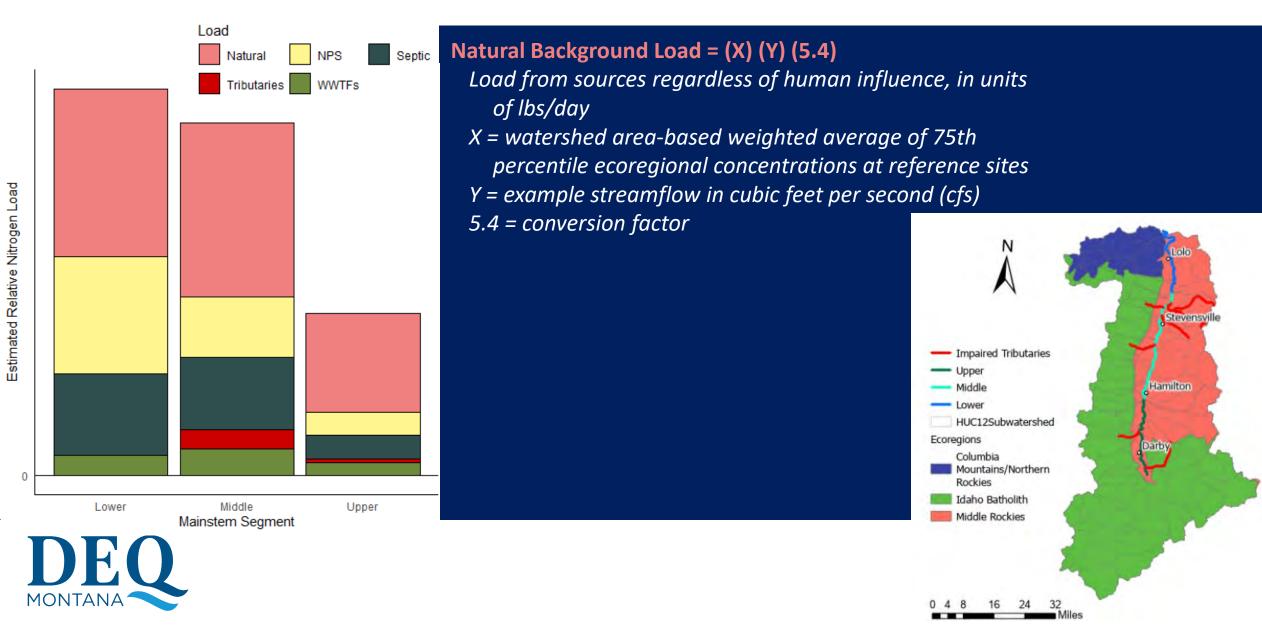


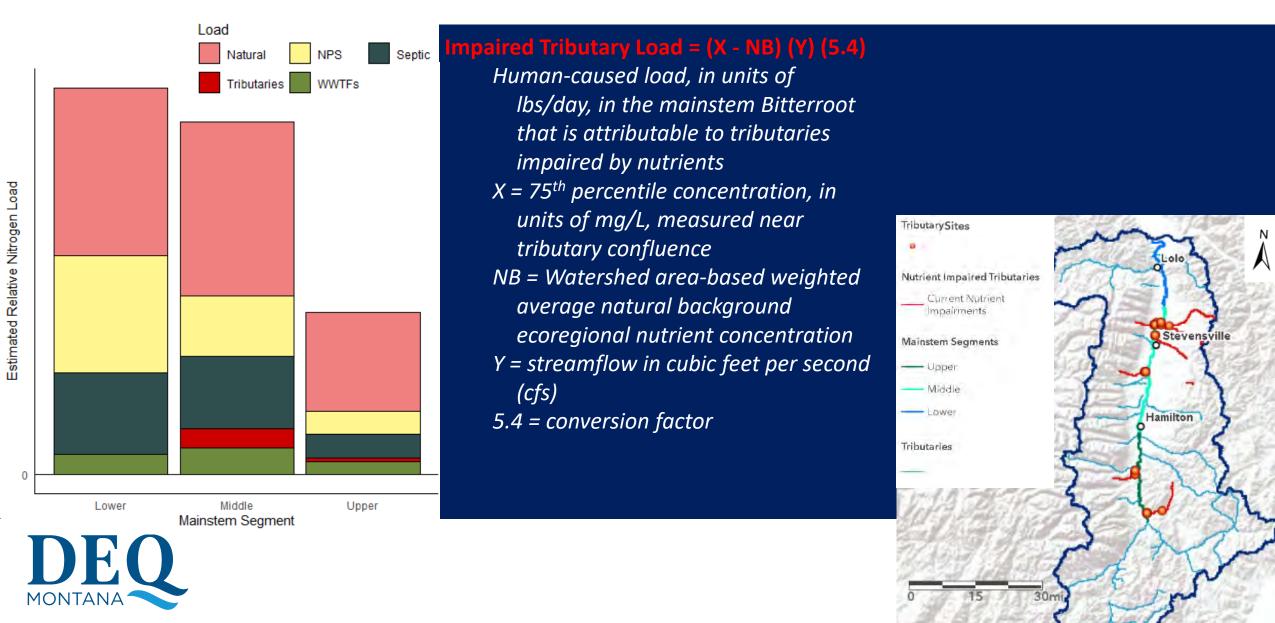
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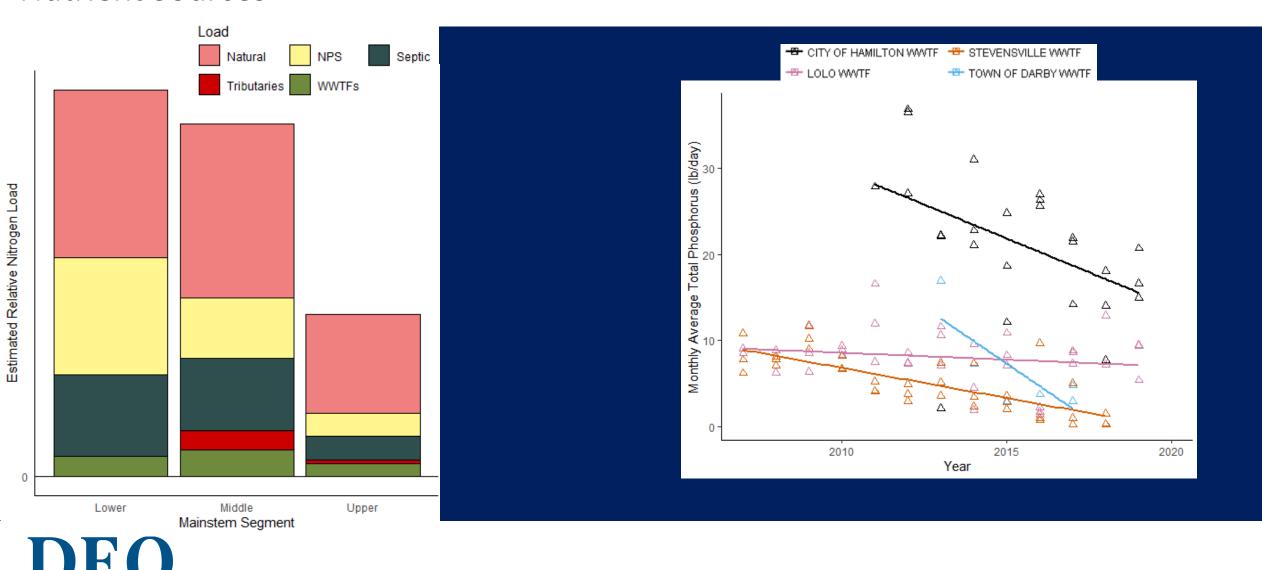


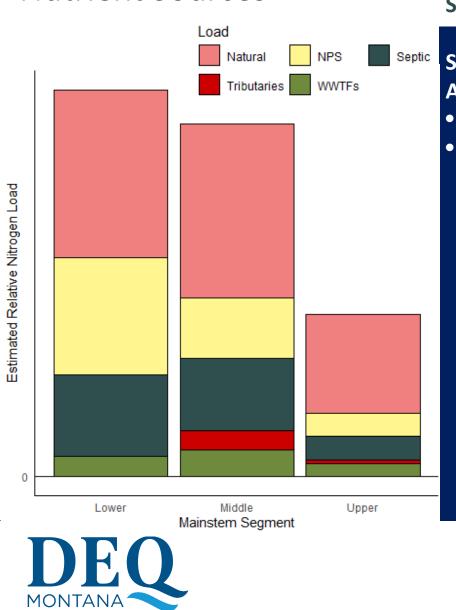






WWTFs: discharge monitoring report data

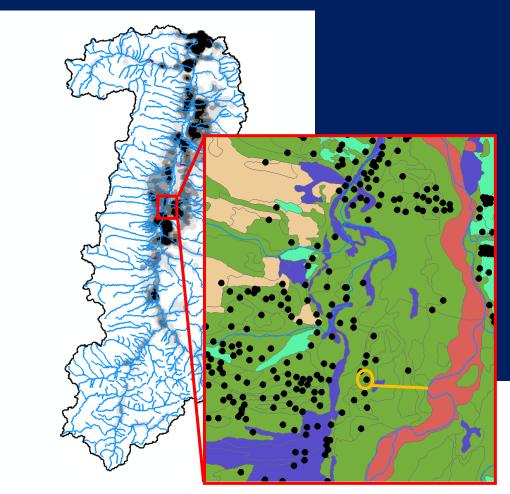


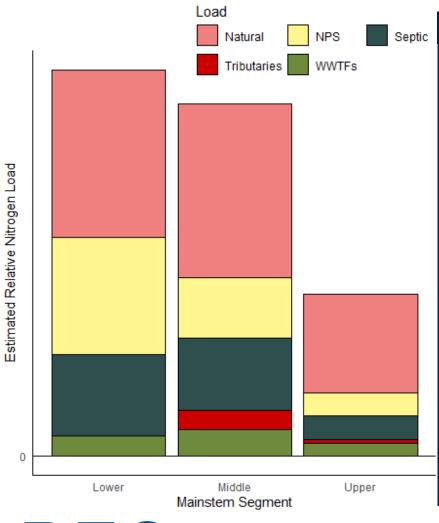


Septic Systems: MEANSS modeling

Septic systems release pollutants at the same rate A portion never reaches surface water based on:

- Soil type
- Distance to surface water





NPS = Current - NB - WWTF - (Tributaries - NB_{Tributaries}) - Septic

NPS Load = Nutrient load, in units of lbs/day, in the mainstem
Bitterroot that is attributable to nonpoint sources of nutrients,
excluding septic systems

Current = Current nutrient load

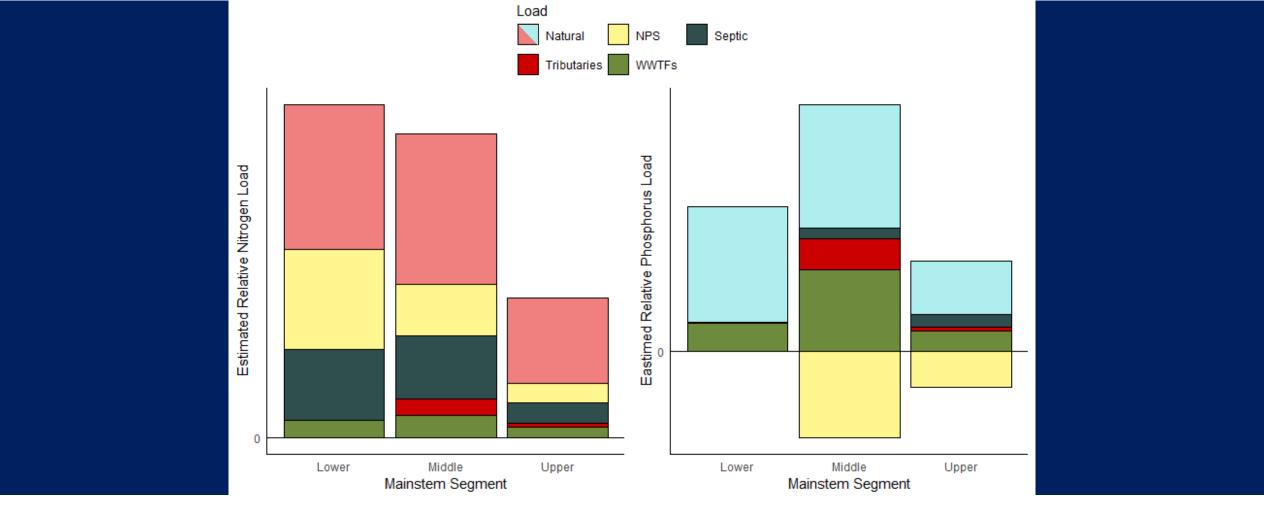
NB = Natural background nutrient load

WWTF = Wastewater treatment facility load

Tributaries = Human-caused nitrogen- and/or phosphorusimpaired tributary load

Septic Systems = Septic system load



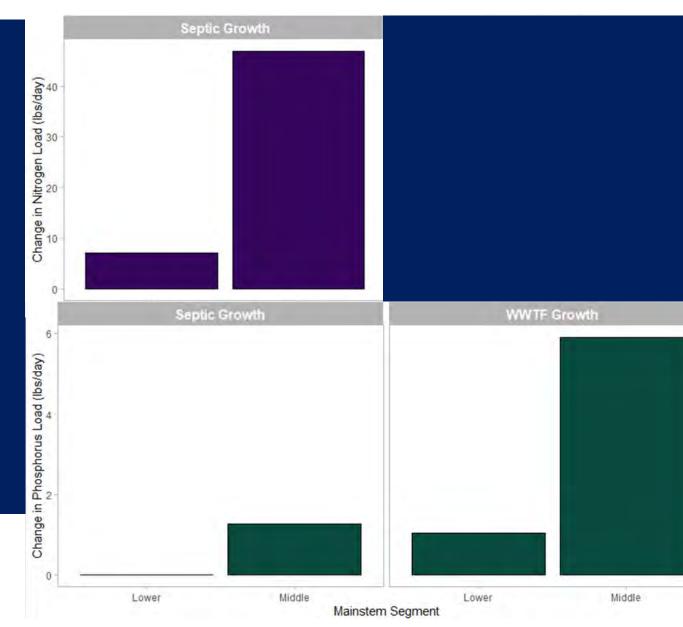




How long can we expect high quality condition?

 Primarily accomplished through longterm trend monitoring

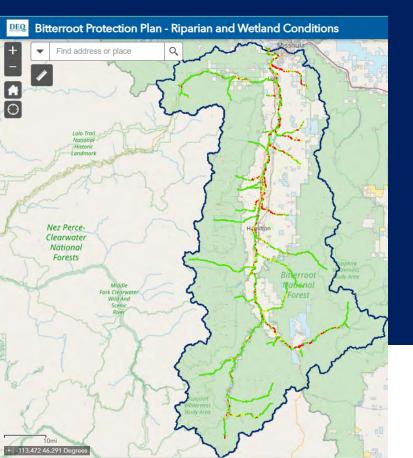
Population growth scenarios





Recommended activities and measures of success

- Continue Implementing the Bitterroot Watershed Restoration Plan and Recommendations from the TMDLs
- Prioritize Riparian and Wetland Projects by Existing Condition



MEASURES OF SUCCESS

- Number of projects or best management practices implemented
- Acres of new conservation easements along streams and wetlands
- Miles of riparian fencing installed
- Number of septic systems upgraded or hooked into centralized wastewater treatment systems
- Miles of streambank with riparian vegetation restored

tinyurl.com/BitterrootProtectionPlan

Recommended activities and measures of success

- Consider Local Regulation and Education to Ensure Water Quality-Friendly Development
- Continue Developing Strategies to Address Water Shortages

MEASURES OF SUCCESS

- Number of distinct outreach campaigns
- Number of County, City, or Homeowner Association level ordinances for water quality friendly development

MEASURES OF SUCCESS

- Number of instream flow leases secured
- Number of irrigation improvement projects
- Number of stakeholder meetings to address voluntary drought management
- Reduction in the number of days hoot owl restrictions (i.e., temporary fishing closures due to high water temperatures) are placed on the Bitterroot River



Next steps....

- Submit public comment through March 28th, 2022
 deq.mt.gov/public/publiccomment
- Incorporate substantive public comment and submit for EPA review
- Publish final draft



