

USDA – NRCS Emergency Watershed Protection Program for the East Troublesome Fire

April 8, 2021 Town Hall

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EWP Sponsor Leads

For **Grand County**

Katherine Morris, Water Quality Specialist

For **Northern Water**

Kyle Whitaker, Colorado River Programs/Water Rights Manager

Topics

- Overview of East Troublesome Fire (ETF) Emergency Watershed Protection (EWP) Program
 - Program Timeline
 - Sponsor Areas
 - NRCS EWP Decision Process
 - EWP Treatments & Practices
- Implementation Overview
- What to Expect Next

Emergency Watershed Protection (EWP)

- NRCS offers financial and technical assistance for various activities under EWP Program:
 - Remove debris from stream channels, road culverts and bridges;
 - reshape and protect eroded streambanks;
 - correct damaged or destroyed drainage facilities;
 - establish vegetative cover on critically eroding lands;
- The EWP Program cannot be used:
 - to address problems that existed prior to the disaster;
 - to improve the level of protection above the existing level at the time of the disaster;
 - for projects' operation and maintenance;
 - to repair private or public transportation facilities or utilities;
 - to install **non-essential** restoration work that will not reduce or eliminate adverse impacts from the natural disaster;



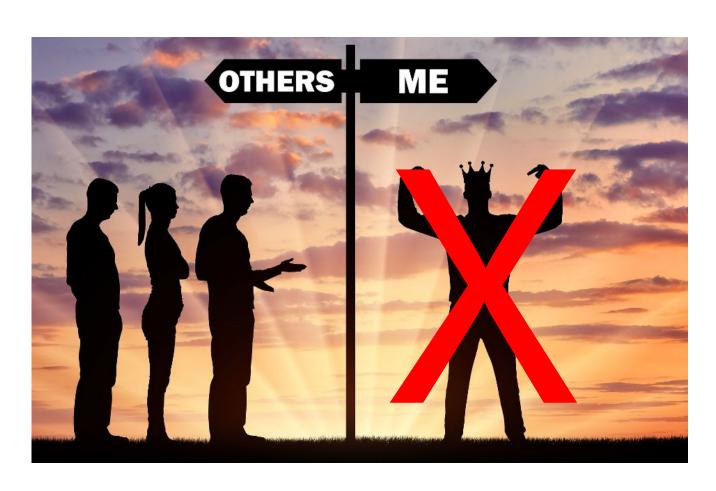
Emergency Watershed Protection (EWP)

- If Funded, all projects must:
 - Demonstrate a reduced threat to Life & Property
 - Be Economically Feasible
 - Be Environmentally Sound
 - Be Socially Sound
 - Be designed to acceptable engineering standards



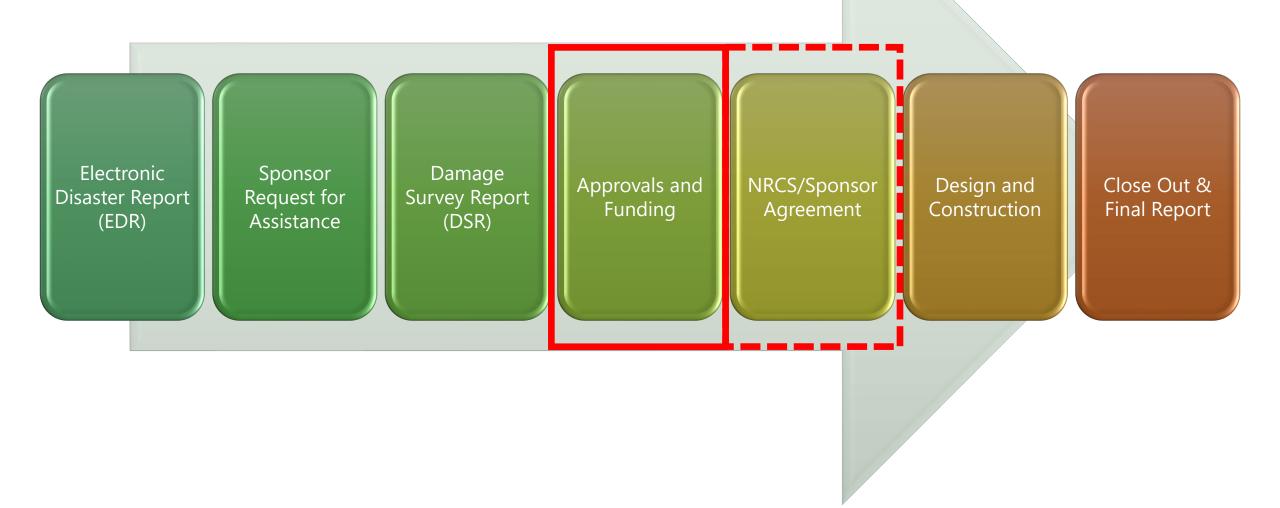
EWP SPONSORS

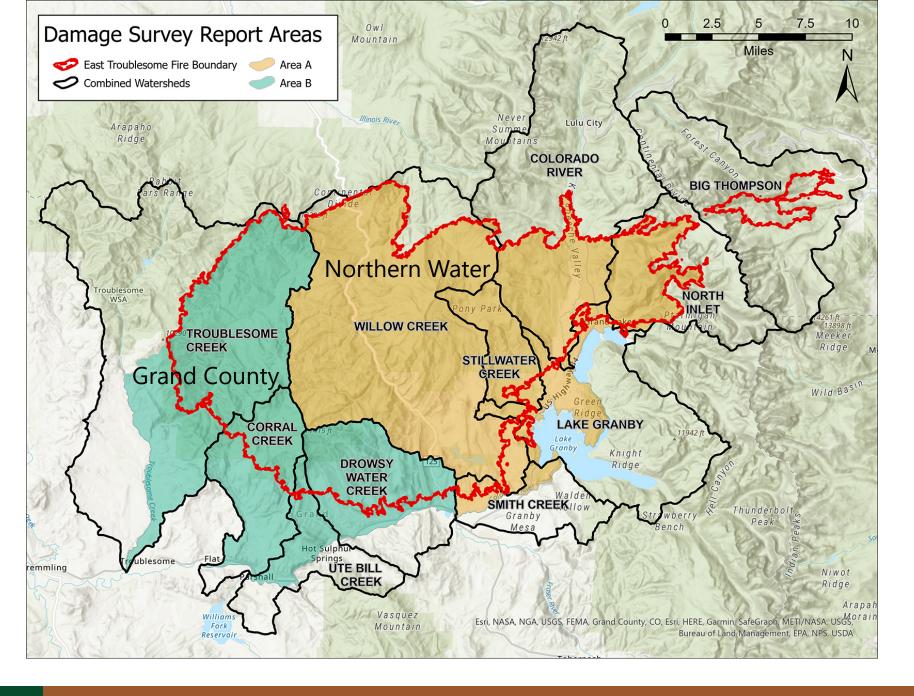
Northern Water (Area A) Grand County (Area B)



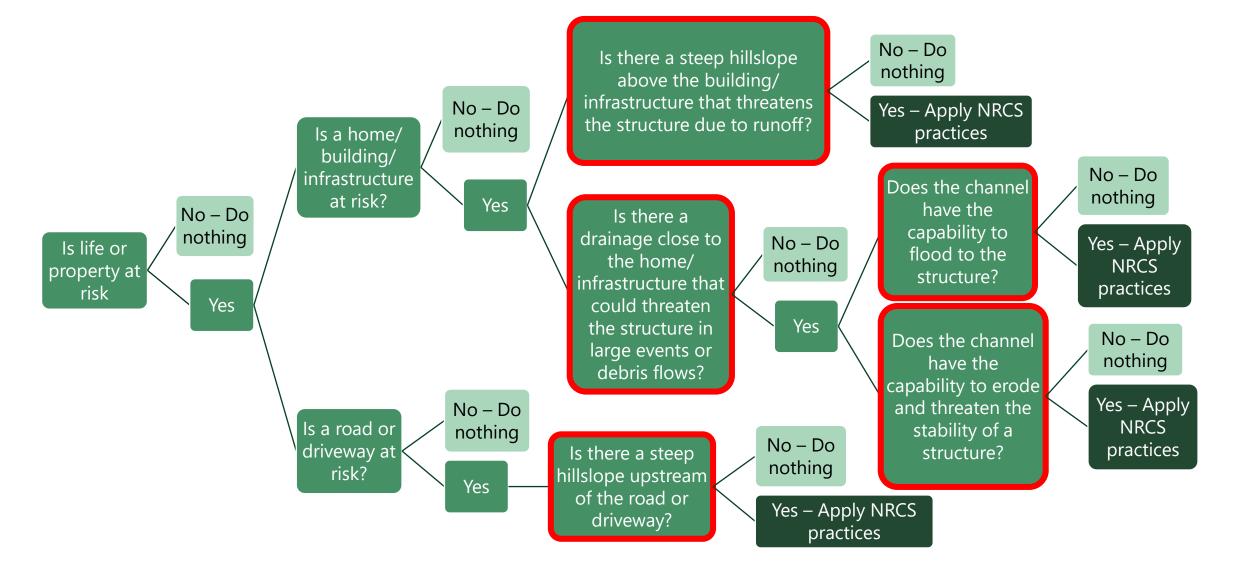


EWP Process Overview





EWP Decision Tree



EWP Treatment Practices

Erosion Control

- Seeding/Mulching
- Log Erosion Barriers
- Mastication
- Bank Stabilization

Sediment/Debris Control

- Debris Removal
- Debris Booms
- Sediment Basins
- Sediment Removal

Flood Protection

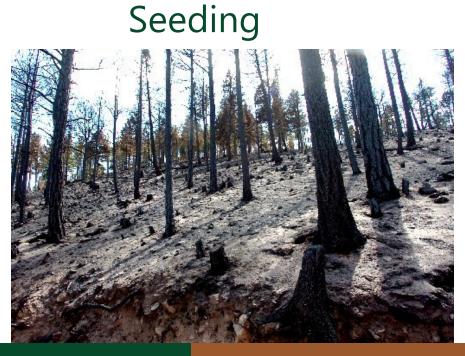
- Flood Barrier Bags
- Overflow Channels

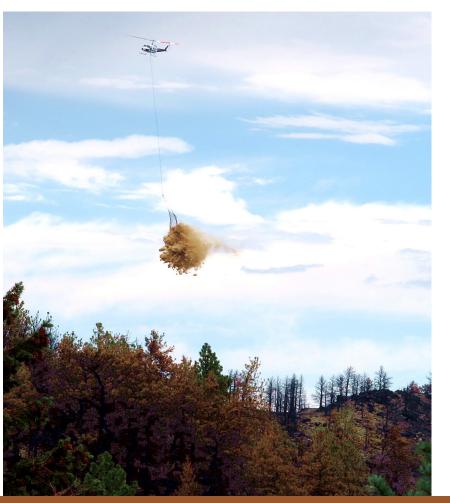
Other

- Emergency Warning System
- Ditch/Canal Improvements
- Road & Bridge Protection
- Trash racks

Erosion Control

Areal Mulching





Mastication



Erosion Control

Straw Wattles/Bales



Log Erosion Barrier



Sediment and Debris Control

Debris Booms



Sediment Basins



Existing Debris Removal



Flood Protection

Flood Barrier Bags



Flood Barrier Bags



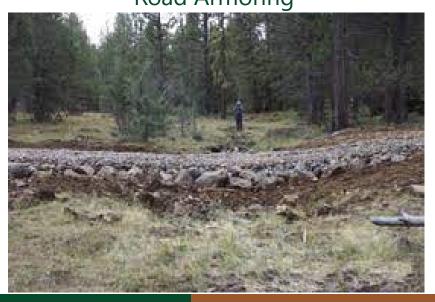
Overflow Channel



Other Protections & Practices

Emergency Warning System

Road Armoring







Other Protections & Practices

Steel Debris Barrier

Culvert Trash Rack



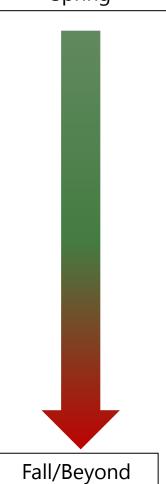


Steel debris barrier before flood (TJ Burr, NRCS, 6/25/2020)

Construction Funding

Phased Implementation

Spring



EWP Treatments & Practices

Emergency Warning System

Pre-existing Debris Removal

Seeding/Mulching/Mastication

Debris Management/Removal

Sediment Basins

Hillslope Erosion Control

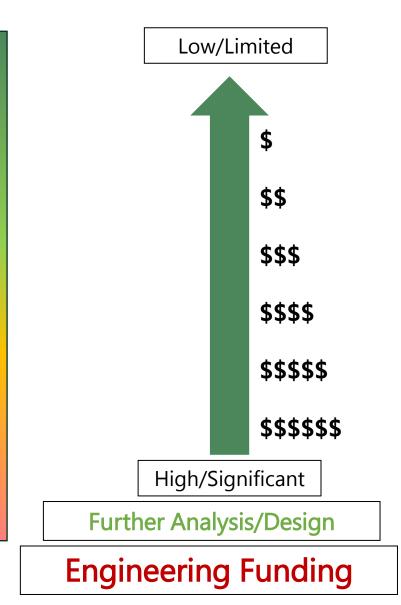
Streambank Stabilization

Overflow Channels

Road Protection

Structure Protection (Flow/Sediment)

Reservoir Sediment Management





Self-Serve Station Concept







Self-Serve Station Concept





Contact Information

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