NAPA RIVER

WATERSHED UPDATE

Napa County Resource Conservation District for NBWA Watershed Council, June 13, 2012

Napa River Watershed

- 426 square miles
- 176 anadromous stream miles
- 31 tributaries
- No dams on mainstem
- Adopted TMDLs for sediment and pathogen
- Draft TMDL for nutrients
- Beneficial use driving the sediment TMDL is cold water
 fisheries





Major Projects

 Napa/Sonoma Marsh Restoration





Napa Sonoma Marsh Restoration





RCD

District

Napa Sonoma Marsh Restoration





South Unit, SRB opened to tidal action for the first time in over 100 years on August 25, 2010. Photo Courtesy K. Taylor.

Major Projects

- Napa/Sonoma Marsh Restoration
- Napa Flood Project





Major Projects

- Napa/Sonoma Marsh Restoration
- Napa Flood Project
- Rutherford and Oakville Restoration Projects
 - 15 miles of mainstem





Rutherford and Oakville Restoration





Rutherford and Oakville Restoration





Major Projects

- Napa/Sonoma Marsh Restoration
- Napa Flood Project
- Rutherford and Oakville Restoration Projects

 15 miles of mainstem
- Zinfandel Lane Bridge
 Fish Passage Project

– 60 miles upstream habitat





Zinfandel Lane Fish Passage Improvement





Zinfandel Lane Fish Passage Improvement





Zinfandel Lane Fish Passage Improvement





Major Projects

- Napa/Sonoma Marsh Restoration
- Napa Flood Project
- Rutherford and Oakville Restoration Projects
 15 miles of mainstern
 - 15 miles of mainstem
- Zinfandel Lane Bridge Fish Passage Project
- Sediment Reduction Projects
 - 18 miles of rural road stormproofed
 - ~23,000 yrd³ of sediment prevented from entering Napa River

















Road runoff dispersed by rolling dip

Fisheries Monitoring: What are we looking to learn?

- What is the condition of outmigrating steelhead and salmon?
- What is the diversity of the fish assemblage?
- Does the Napa River support a self-sustaining run of steelhead?





Fisheries Monitoring

- Seven years of salmon spawner surveys
- Five years of salmon genetics sampling
- Three years of rotary screw trap monitoring





Fisheries Monitoring





Fisheries Monitoring





Rotary Screw Trap



Conservation District

RST captures 67% of total habitat in Napa River watershed



What have we learned about the Napa River ?

- Native fish assemblage is almost entirely intact
- Very few exotic fish species in the freshwater reaches
- High fish species diversity relative to other streams in the region





What have we learned about steelhead?

- Steelhead smolt production is fairly consistent
- Steelhead smolts tend to be large (> 150mm)
- Steelhead smolt survival to the ocean is relatively high (>50%)





What have we learned about Chinook?

- Adult Chinook salmon returns are highly variable from year to year
- Chinook salmon are successfully spawning in most years
- The Napa River is producing Chinook salmon smolts in most years





What are we still looking to learn?

- Population trends for steelhead and salmon
- Does the Napa River support a self-sustaining run of steelhead and Chinook salmon?
- Are restoration efforts working?





Reports available at: www.naparcd.org www.napawatersheds.org



