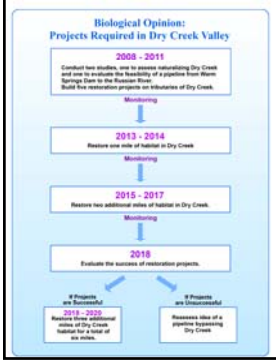
Dry Creek Studies, Planning, and Enhancement

- Habitat Enhancement Feasibility Study
- Pipeline Feasibility Study
- Tributary Enhancements
- Fisheries Monitoring

12 Year Restoration and Monitoring Requirements



- Multiple Phases
- Multiple Goals
  - 5 Tributary Projects
  - 6 Total Miles of Mainstem Restoration
  - 8 Sites (Upper, Middle, Lower)
  - Summer and Winter Habitat
  - Bank Stabilization
  - Flow Preservation

Dry Creek Mainstem Habitat Enhancement Study

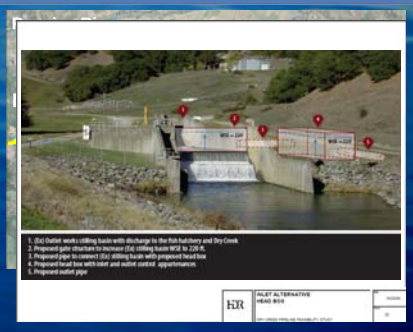
- 1st Step in 12 Year Effort to Enhance 6 Miles
- Interfluve, Inc.
- August 24th for 2-3 weeks
- Habitat and Channel Geometry
- Meet Landowners, Discuss Opportunities

Dry Creek Mainstem Habitat Enhancement Study

"Project Opportunity" =
Habitat Value +
Engineering Feasibility +
Landowner Cooperation

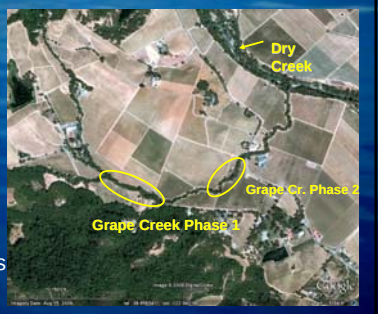
Bypass Pipeline Feasibility Study

- HDR Engineering
- 4 Potential Routes
- Inlet Works
- Outlet Works



Dry Creek Tributary Enhancement Projects

- Sotoyome RCD
- Prunuske-Chatham, Inc.
- Dragonfly, Inc.
- Enhance Rearing Habitat
- Log, Boulders, Riparian Plantings
- Fish Passage



Dry Creek Tributary Enhancement Grape Creek Project Phase 1

Dry Creek Tributary Fish Passage Projects

- Sonoma Co. Public Works
- Prunuske Chatham
- CDFG
- Wallace Creek (Mill Cr.), Wine/Grape Cr., Crane Cr.

Dry Creek Biological Monitoring

- Fish Trapping (Spring-Summer)
- Tagging (Spring)

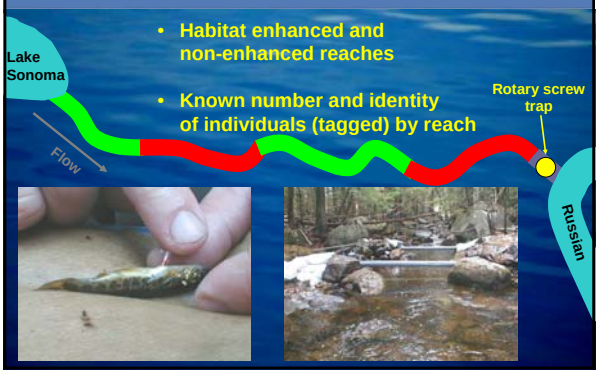
- Fish Population Sampling (Summer-Fall)

Dry Creek Fisheries Monitoring Plan

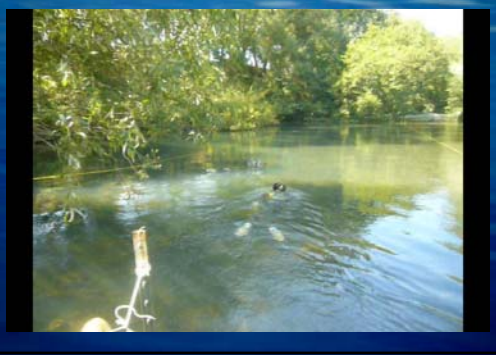
	J	F	M	A	M	J	J	A	S	O	N	D
Sampling method	Winter			Spring			Summer			Fall		
Fry trap:				F								
Rotary screw trap:				F,P,S			Y,P					
PIT tag (wild):									Y,P			
PIT tag (hatchery):						Y						
Electrofish:									Y,P			
PIT tag antennas:				PIT tagged fish								

Dry Creek Population Trend and Pre/Post Monitoring

- Habitat enhanced and non-enhanced reaches
- Known number and identity of individuals (tagged) by reach



Dry Creek Population Trend and Pre/Post Monitoring

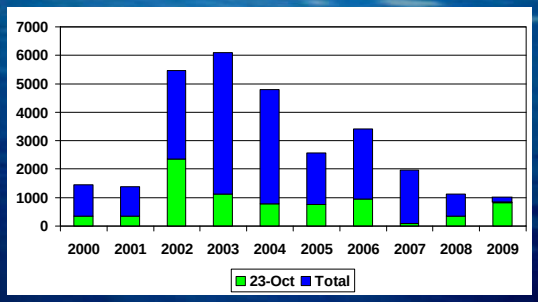


Russian River Mainstem Fisheries Monitoring

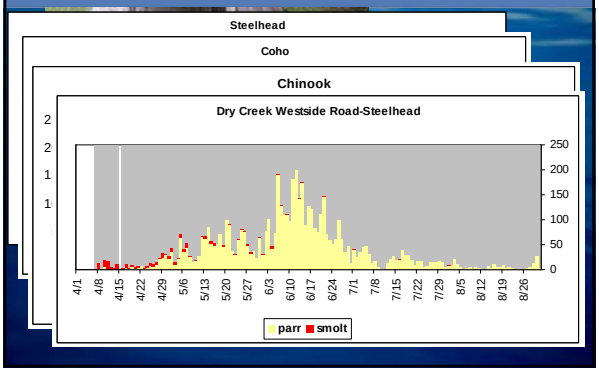
- Fish Trapping (Spring)

- Fish Ladder Video Monitoring (Summer-Fall

Adult Chinook Salmon Counts 2000 - 2009



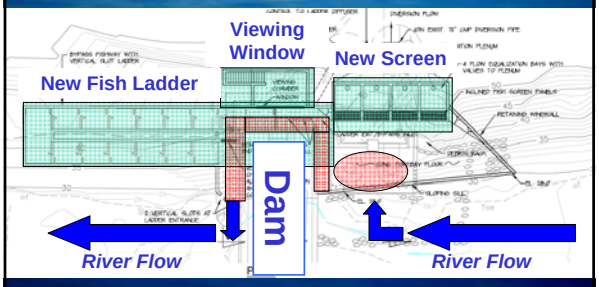
Downstream Migrant Trapping



Mirabel Fish Screen Replacement

- Feasibility Study Consultant – Prunuske Chatham
- Tech Advisory NMFS and CDFG

Mirabel Fish Screen Replacement



Decommissioning Wohler Infiltration Ponds

Regrade Ponds 1 and 2 to gentle slop that drains to River

Next Steps

- Dry Creek Habitat Enhancement Study
  - Current Conditions Report (03/10)
  - Phase 2: Conceptual Designs (10/10)
- Dry Creek Pipeline Feasibility Study
  - Feasibility Report (03/10)
  - Engineering Report (10/10)
- Tributary Enhancements
  - Grape Creek Habitat (07/10)
  - Grape Creek Passage (10/10)
  - Crane Creek Passage (10/10)
  - Wallace Creek Passage (10/11)
  - Mill Creek Passage (10/11)