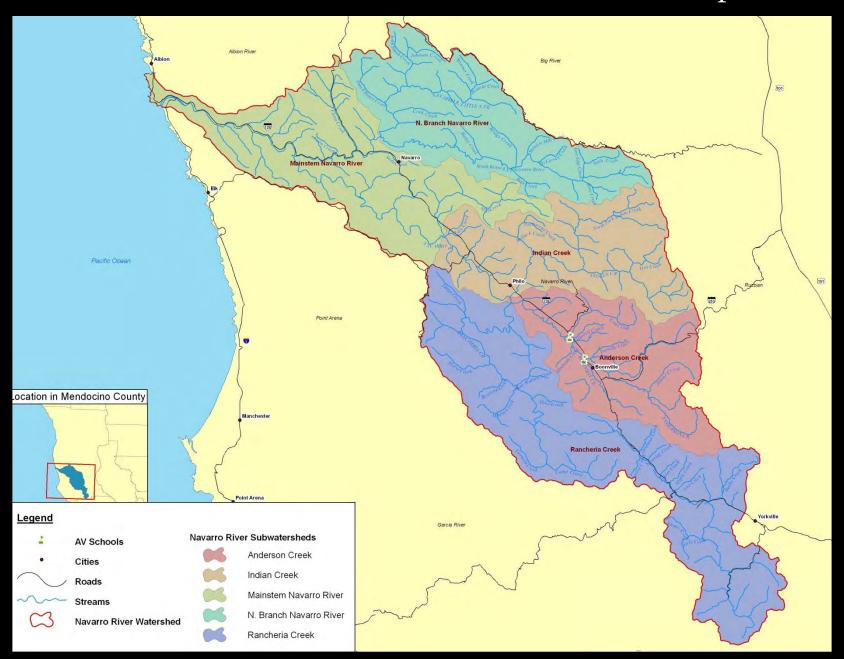
Panel Session #1: State of Anderson Valley Our Watershed: Valley Hydrology, Salmon, Biodiversity

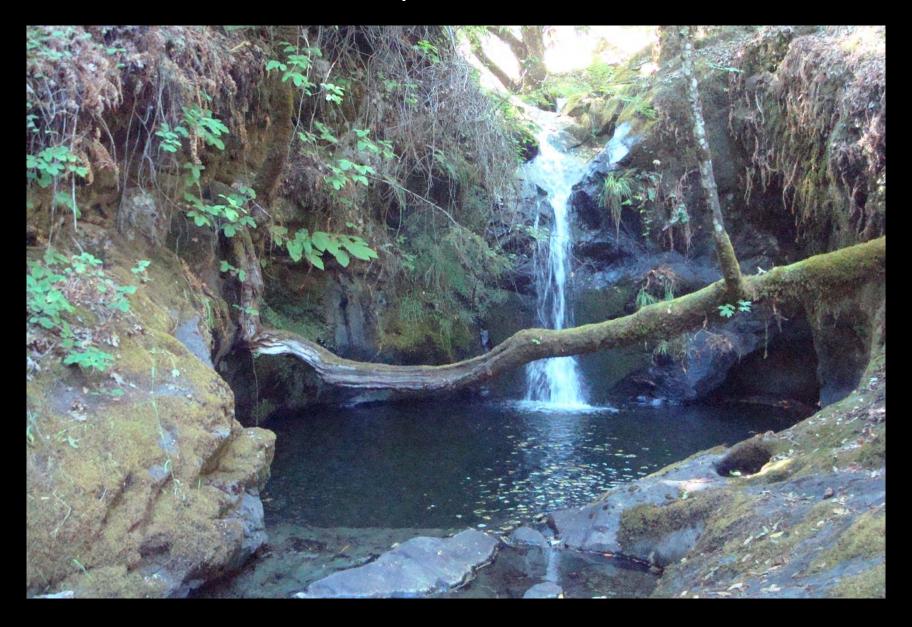
- Chair and Presenter: Linda MacElwee
 - Mike Jones, Ph.D, UCCE Forest advisor
 - Adina Merenlender, Ph.D, Professor of Cooperative Extension in Conservation Science at U.C. Berkeley
 - Monty Schmitt, Senior Project Director with The Nature Conservancy
 - Christopher Woltemade, Ph.D, Prunuske Chatham, Inc.

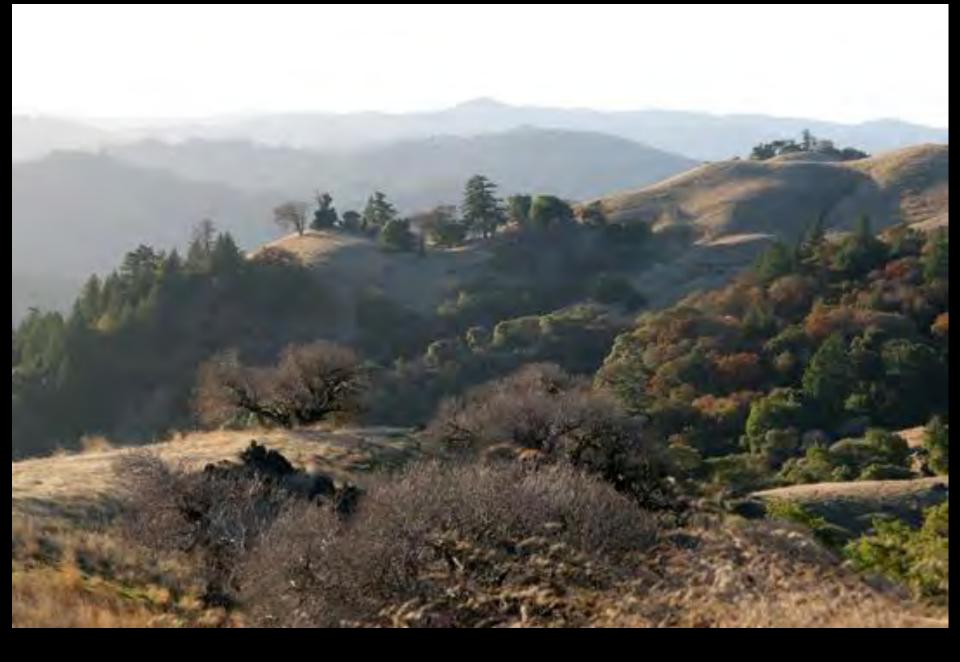


Navarro River Watershed Sub-basin Map



From the top of the watershed:







To the mouth of the river.....



We live in a beautiful and unique place.....





Regulatory framework at work in the Navarro Watershed

- Navarro River Watershed listed for Total Maximum Daily Load (TMDL) for Sediment and Temperature, 2000
- NMFS lists Steelhead as threatened species(2006) and Coho salmon as endangered species (2005) under Endangered Species Act
- North Coast Regional Water Quality Control Board (NCRWQCB)
 Sediment Work Plan, 2008
- Regional Board Temperature Action Plan to address temperature
 TMDL in the Navarro, Mattole and Eel River Watersheds, 2014
- SB AB 2121- Policy for Maintaining Instream flows, 2014
- State Groundwater Management Act 2014
- Regional Board Irrigated Ag discharge permit for the North Coast (under development expected Fall 2023)

Roads are a major source of sediment in the Navarro watershed, modern road techniques are designed to make roads hydrologically invisible to the landscape



From the Meadows of Coastal Grassland Prairie,



And the rich habitat of oak woodlands...



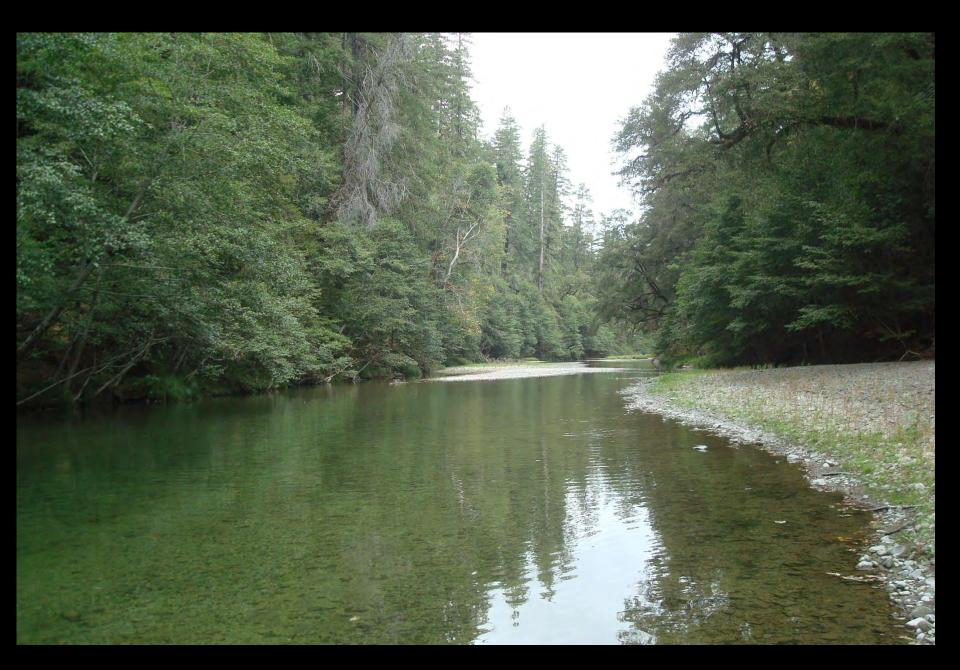
Down to the deep end of the watershed...



Where Coho Salmon find clear, cool water



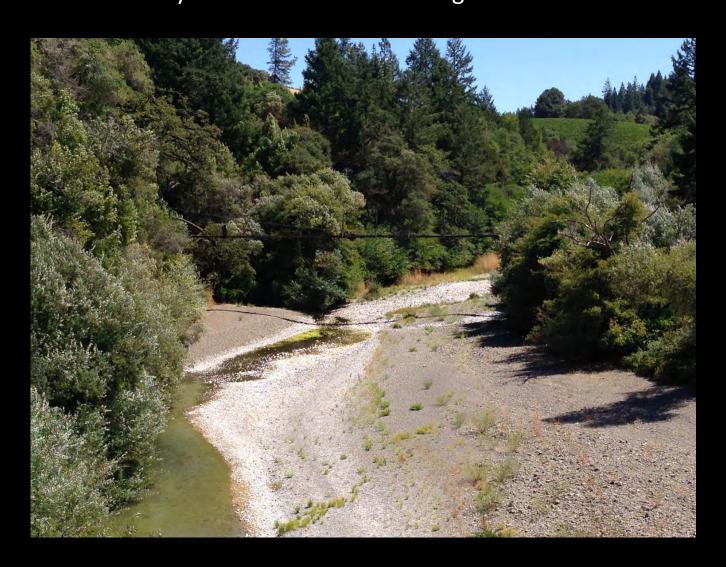
Steelhead use the entire watershed for spawning and summer rearing



Residual pools are especially important from August-October for the Summer rearing time of the Salmonid life cycle



The Navarro is known as a very "flashy" river system....
with low flows at the gauge getting down to <1 CFS for weeks/months
at a time, June/July thru early October—compounded by the cumulative impacts
of 9+ years of consecutive drought conditions



During high flows the Navarro can get up to nearly 60,000 cfs Photo: January 2006



Farming in a variable climate with climate change, it's important to build for drought as well as flood resiliency.

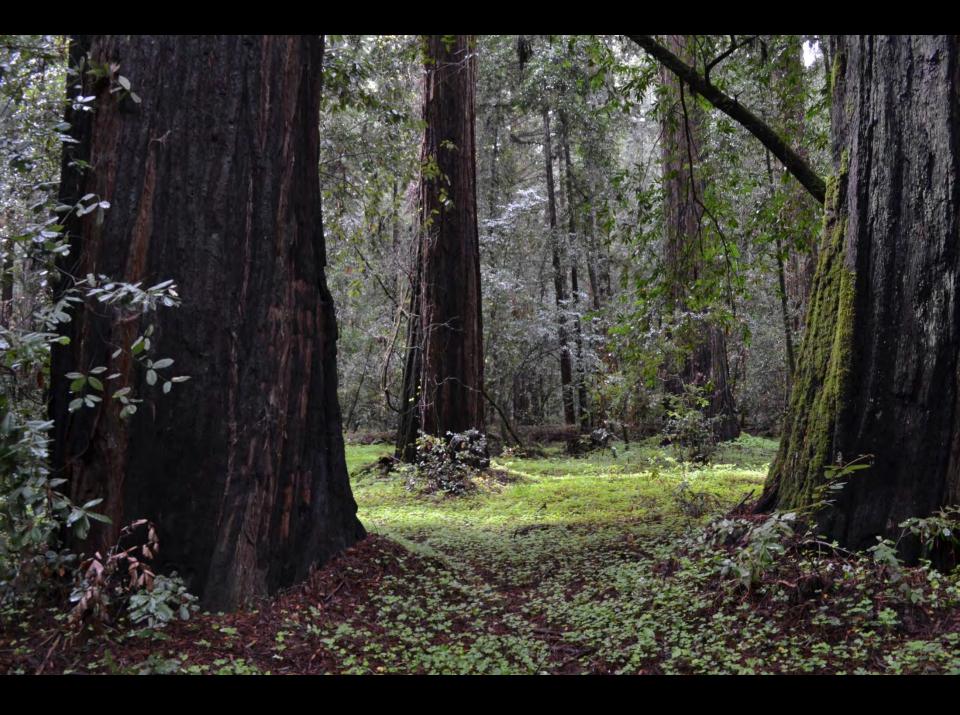
Photo: Anderson Creek, El Nino 1996

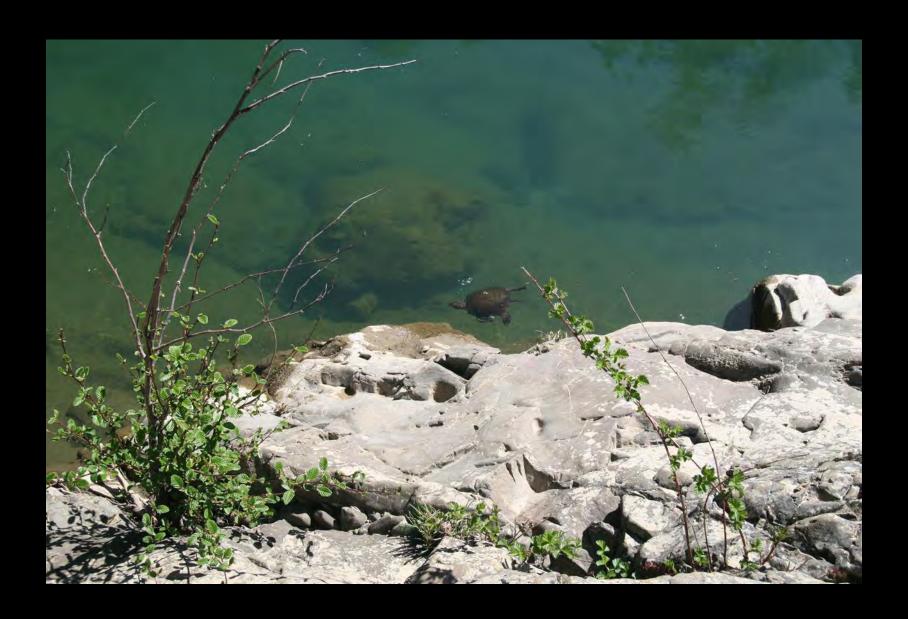






















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