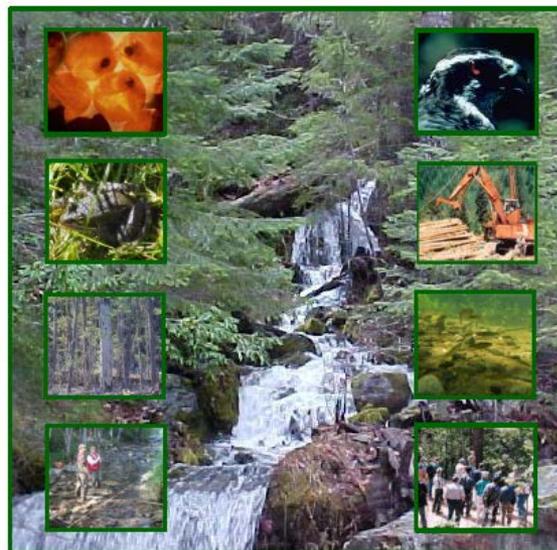




DRAFT
EFFECTIVENESS MONITORING COMMITTEE (EMC)
Strategic Plan



Submitted to the California Board of Forestry and Fire Protection

October 1, 2015 Draft

Stuart L. Farber Jr., Co-Chair
Member, California Board of Forestry and Fire Protection

Russ Henly, Ph.D, Co-Chair
California Natural Resources Agency



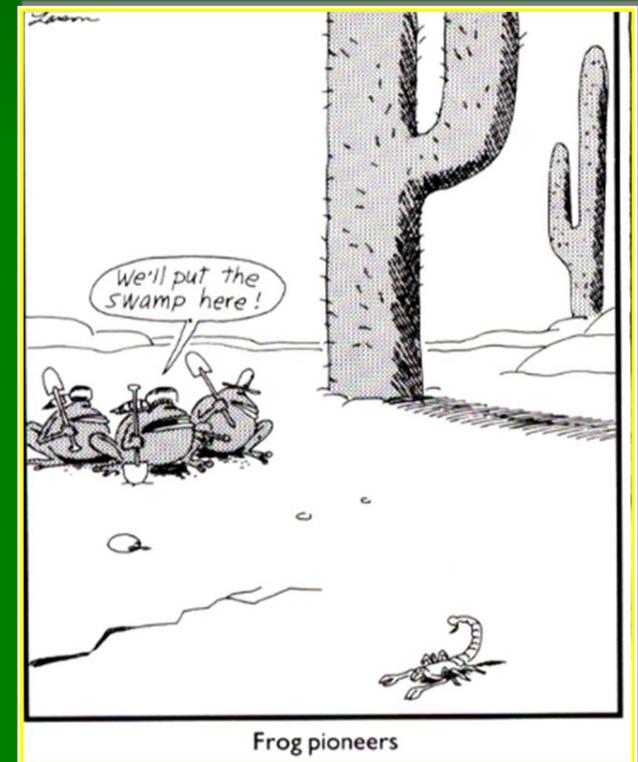
EMC Timeline

- MSG Effectiveness Monitoring Proposal **July 20th, 2009**
- Charter – Management Committee **February 1st, 2013**
- Charter - Full Board Approval **August 12th, 2013**
- EMC members selected and approved **August 27th, 2014**
- EMC- 1st meeting **October 2nd, 2014**
- Draft Strategic Plan to Board for review **October 1st, 2015**

Board Review and Guidance



- Does the Strategic Plan reflect the direction provided in the Charter, Board committees, and agency and public comment?
- Have we achieved an appropriate open and transparent process?
- Does the “Road Map” provide an appropriate decision space or playing field? Is it too broad or too prescriptive?
- Was the review and prioritization of monitoring questions appropriate?
- Does the plan going forward meet expectations?



EMC Strategic Plan Development

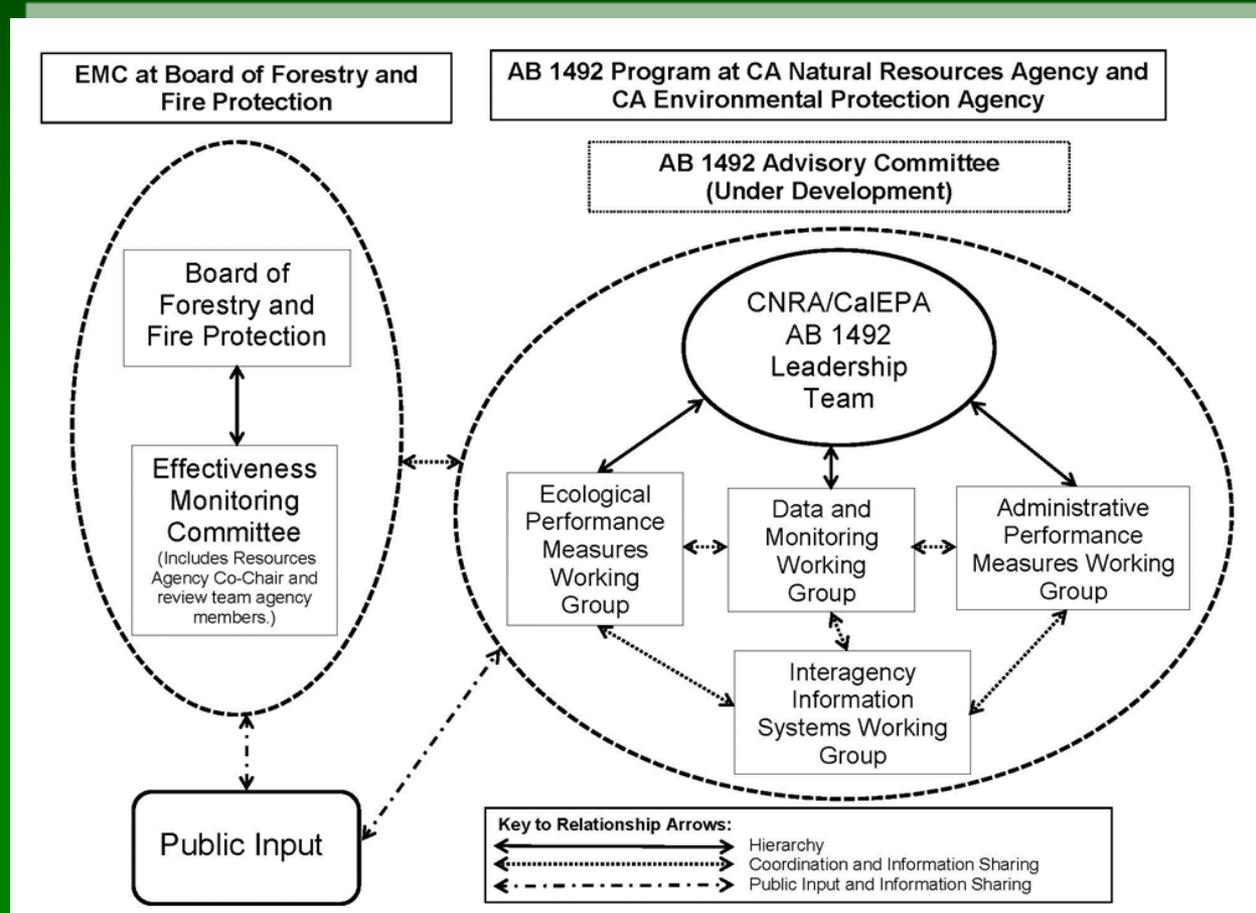


- Open and Transparent
- Committee Members
- Staff Support
- Public Contributions

The screenshot shows the website for the Board of Forestry and Fire Protection. The header includes the CA.GOV logo, the board's name, and navigation links for HOME, ABOUT, BUSINESS, POLICY, COMMITTEES, and REGULATIONS. A search bar is also present. The main content area features a banner for REGISTERED FORESTERS and the board's mission statement. Below this, there is a section for the Effectiveness Monitoring Committee with an archive dropdown set to 'Current Data'. Three sections are listed: 'MISSION & GOALS SUBSCRIBE' with links to the charter, a 2009 monitoring report, and the roster; 'SEPTEMBER 2015 SUBSCRIBE' with the agenda; and 'AUGUST 2015 SUBSCRIBE' with the agenda, planning rule text, a letter to the board, draft policies, and the strategic plan. A meeting registration link is provided for a meeting on August 18, 2015. A 'JULY 2015 SUBSCRIBE' section lists the agenda, draft strategic plan, a specific section of the draft plan, and meeting notes. On the right side, there are two boxes: 'MAIN LINKS SUBSCRIBE' with links to Home, About, Business, Policy, Committees, Regulations, and Registered Foresters; and 'BOARD COMMITTEES LINKS SUBSCRIBE' with links to various committees including the Monitoring Study Group, Resource Protection Committee, Forest Practice Committee, Policy Committee, Management Committee, Range Management Advisory Committee, Technical Advisory Committee, Interagency Forestry Working Group, Research and Science Committee, VTAC, and Effectiveness Monitoring Committee.



EMC Strategic Plan Development





EMC Strategic Plan Development

- Charter - Goals and Objectives
- Annual Reporting and review by the Board
- Personnel and Funding (Section 1.4)
- Collaborative scientific atmosphere that builds mutual understanding and trust of scientific results.





Development of Critical Monitoring Question

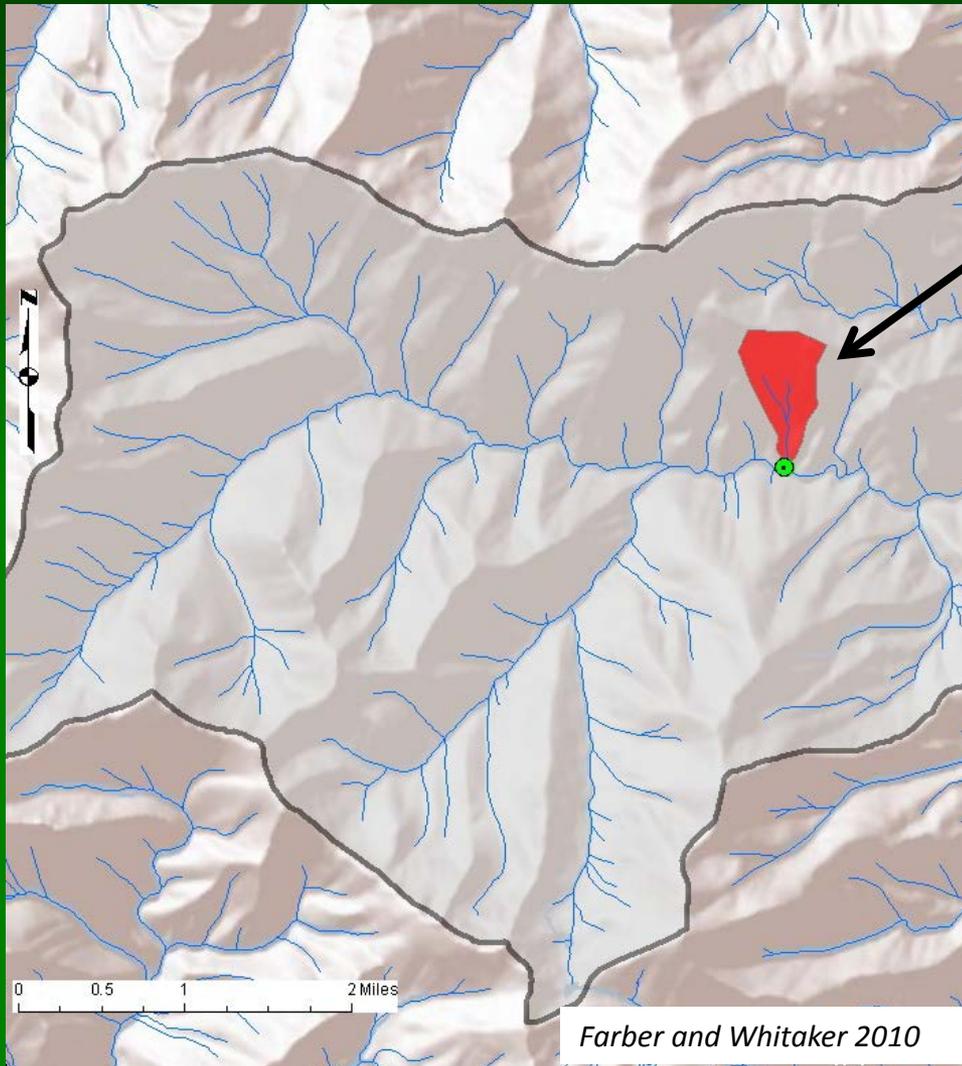
Monitoring Priorities

- Board
- CDFW
- Water Boards
- CGS
- CALFIRE
- USFS
- NOAA/NMFS
- Public





Cumulative Effects: Example



Step 1 Monitor causal linkages between FPRs and associated regulations and the resource of concern at relatively small spatial and temporal scales.
(Project or THP scale)

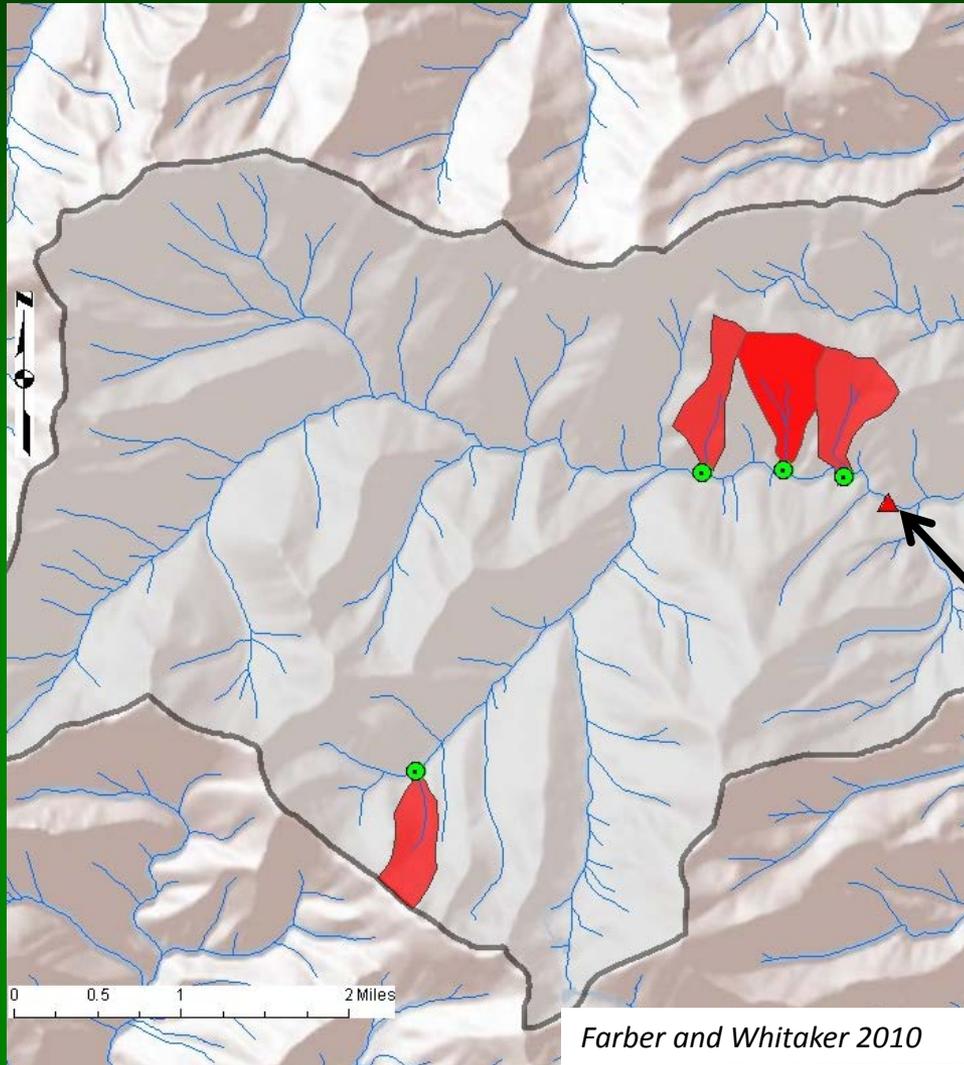
Critical Question Theme
WLPZ Canopy Closure

Rule or Regulation
14 CCR § 916 [936, 956]

Critical Monitoring Question
is maintaining or restoring water temperatures?



Cumulative Effects: Example



Step 1 Monitor causal linkages between FPRs and associated regulations and the resource of concern at relatively small spatial and temporal scales. (Project or THP scale)

Step 2 Nest the smaller spatial scales studies within larger studies and shorter temporal studies within longer studies.



Issues of temporal and geographic scale:

- Range of variability
- Rare and large events
- Limits of the EMC (example: anadromous fish monitoring)
- Resource benefit

Van Eck Forest





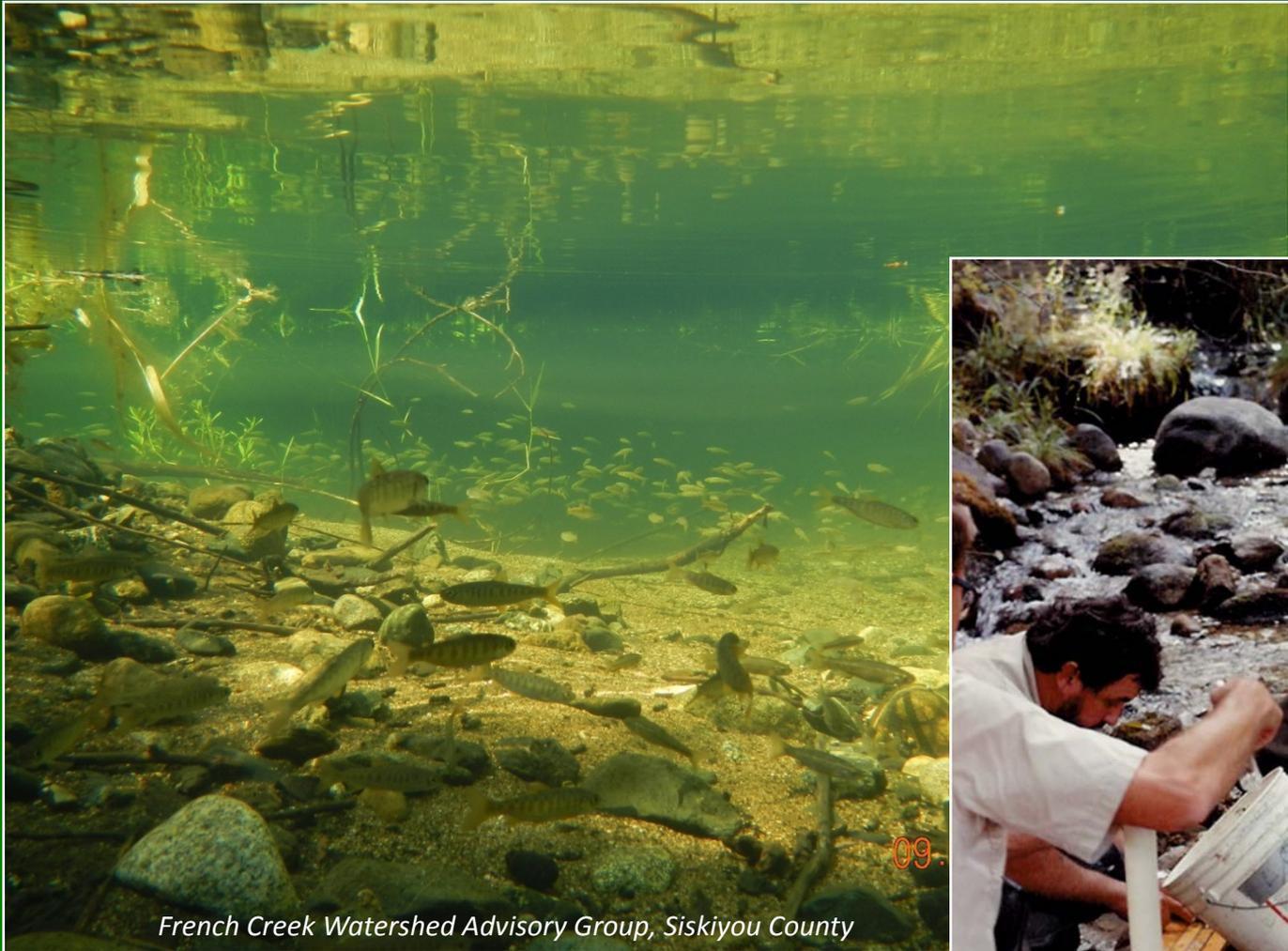
- **Range of Variability**
- **Rare or Large Event Monitoring**

Mill Creek, Scott River 2008



Chips Fire, Plumas County, 2012

Anadromous Fish Monitoring



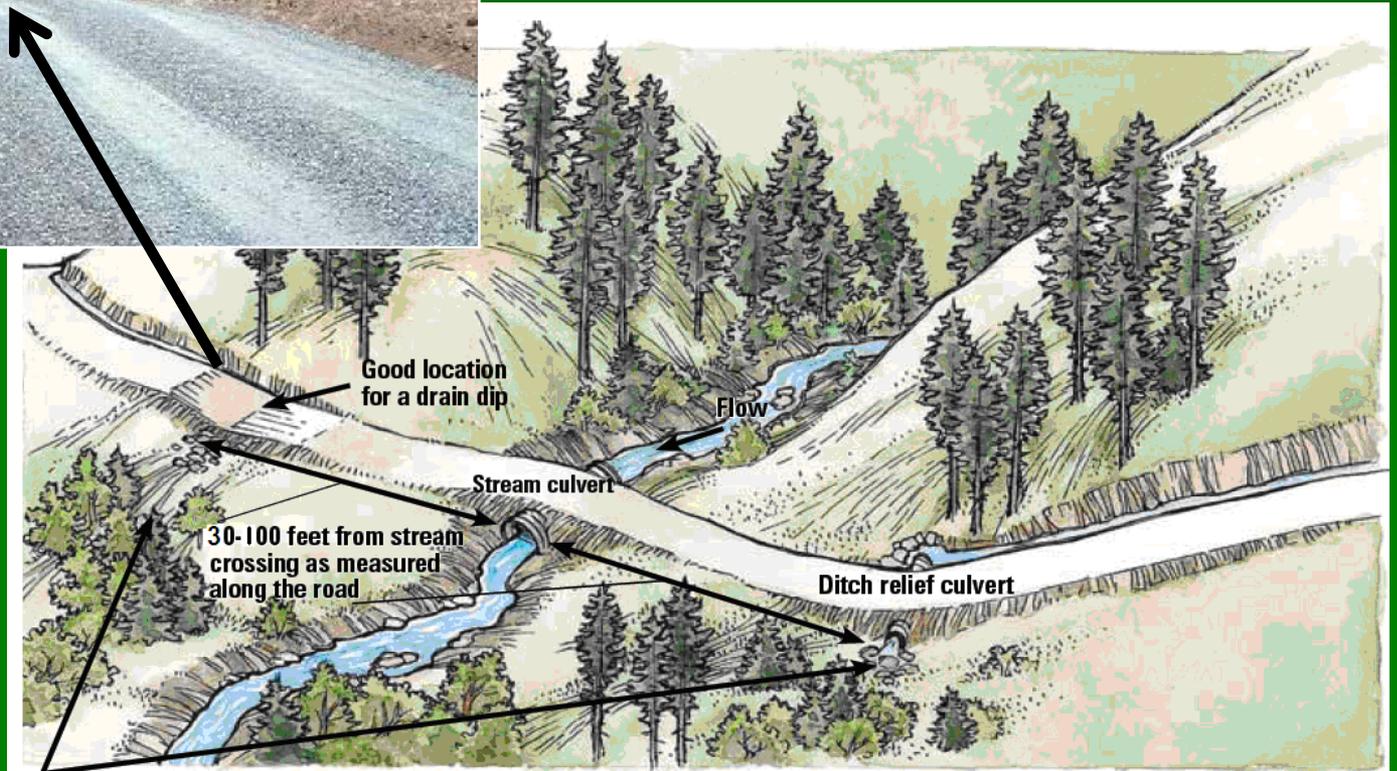
French Creek Watershed Advisory Group, Siskiyou County



Resource Benefit

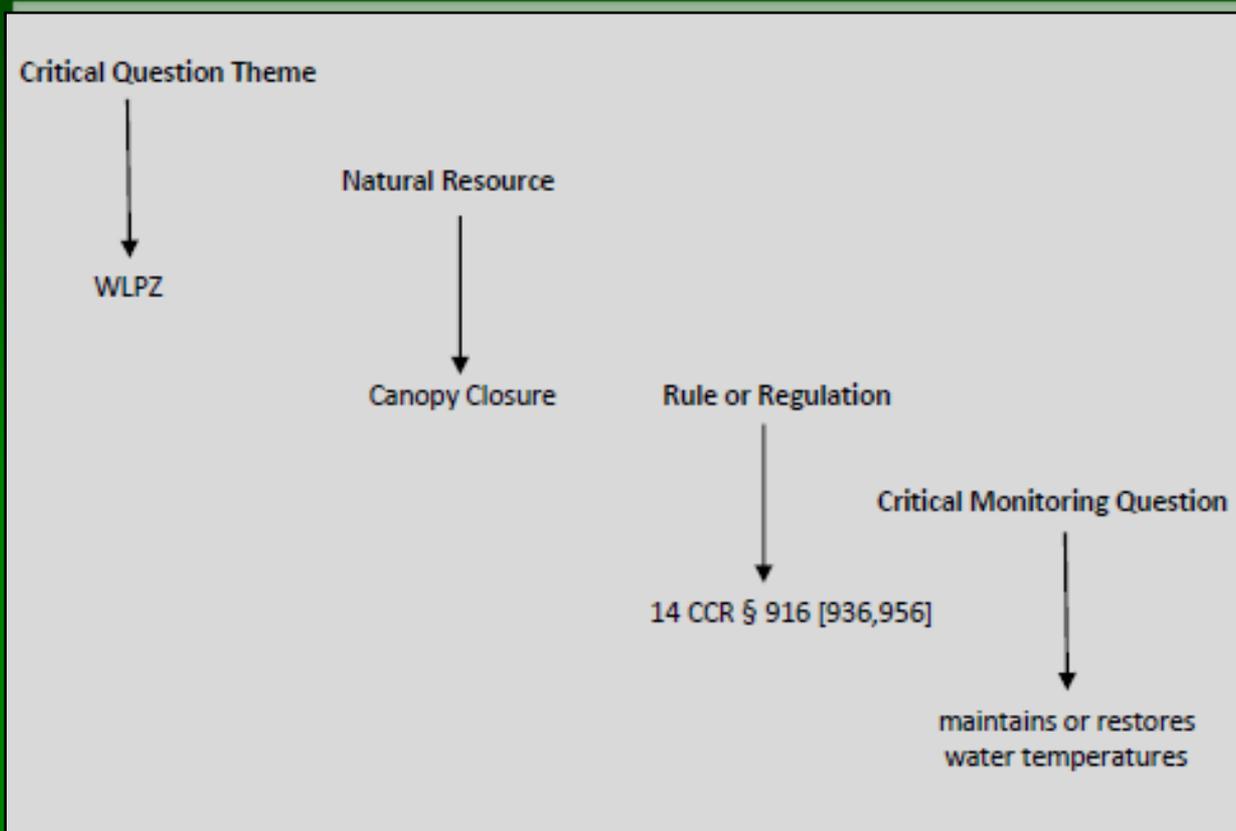


Road Rules 2013 Technical Rule Addendum #5





Critical Monitoring Questions





Critical Monitoring Questions

	<u>Critical Question Theme</u>	<u>EMC Members Priority</u>
1	WLPZ Riparian Function	High
2	Watercourse Channel Sediment	High
3	Road and WLPZ Sediment	High
4	Mass Wasting Sediment	Medium
5	Fish Habitat	Medium
6	Wildfire Hazard	High
7	Wildlife Habitat: Species and Nest Sites	Low
8	Wildlife Habitat: Seral Stages	Low
9	Wildlife Habitat: Cumulative Impacts	Medium
10	Wildlife Habitat: Structures	Low

Example: Washington State CMER 2015 Work Plan

- Program Title
- Program Number
- Uncertainty
- Risk



Table 3. Rankings for Effectiveness Monitoring and Extensive Status and Trends Monitoring Programs

Program Title	Overall Ranking	Uncertainty		Risk	
		Mean	Rank	Mean	Rank
Effectiveness/Validation Programs					
Type N Buffer Characteristics, Integrity Function	1	4.4	1	3.9	1
Eastside Type F Desired Future Range and Target	2	4.2	2	3.8	2
Type N Amphibian Response	3	4.2	2	3.7	3
Road Sub-Basin-Scale Effectiveness Monitoring	4	3.4	5	3.4	4
Type F Statewide Prescription Monitoring	5	3.2	7	3.1	6
Mass Wasting Effectiveness Monitoring	6	3.2	6	2.9	8
Eastside (BTO) Temperature	7	3.0	9	3.2	5
Wetlands Revegetation Effectiveness	8	3.5	4	2.7	11
Road Prescription-Scale Effectiveness Monitoring	9	2.6	14	3.1	6
Hardwood Conversion	10	3.0	8	2.6	12
Wetlands Mitigation	11	2.8	11	2.7	10
Fish Passage Effectiveness Monitoring	12	2.6	14	2.9	9
Wildlife Program	13	2.9	10	2.4	14
Wetland Management Zone Effectiveness Monitoring	14	2.8	12	2.5	13
CMZ Effectiveness Monitoring	15	2.7	13	2.1	15
Forest Chemicals	16	2.0	16	2.1	16
Extensive Status and Trends Monitoring Programs					
Extensive Riparian Monitoring	1	3.5	2	3.5	1
Extensive Mass Wasting Monitoring	2	3.7	1	2.9	3
Extensive Fish Passage Monitoring	3	3.1	3	3.1	2



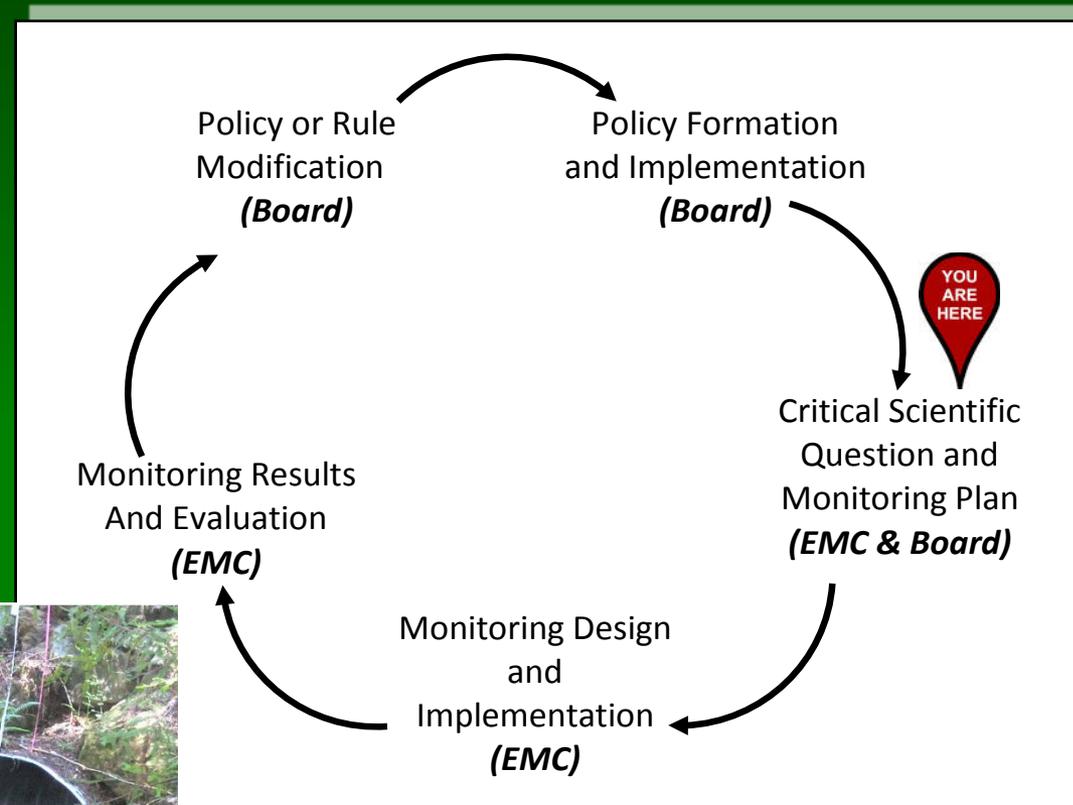
Ranking Method for Monitoring Projects (Appendix F)

- Critical Question
- Scientific Uncertainty
- Geographic Application
- Collaboration and Feasibility





Adaptive Management





EMC Going Forward

- Finalize Strategic Plan
- Review and rank proposed monitoring projects
- Solicit monitoring projects, if necessary
- Seek collaborators and resources to implement monitoring
- Annual Report and update of Strategic Plan to the Board

Sue Hilton, V-Star sampling, French Creek, Circa 1996





Board Review and Guidance

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Board of Forestry and Fire Protection, 1996 Review of French Creek Watershed

