







Stakeholder concerns about GRAP.... Transparency Preconceptions Reinventing wheel Evidence of need Dissolving trust One-size-does-not-fit-all Socio-economic-ecological consequences









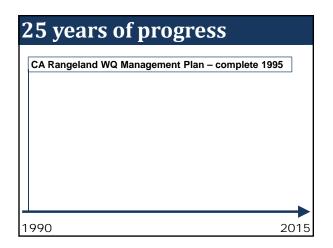


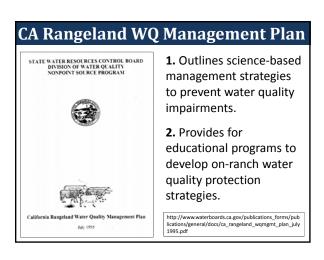


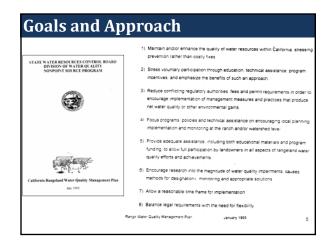


Rangeland Watershed Program Integrate science, policy, and management. Effective policies and strategies to safeguard water quality. Education to identify and manage WQ risks. Ranch specific WQ management plans and actions.

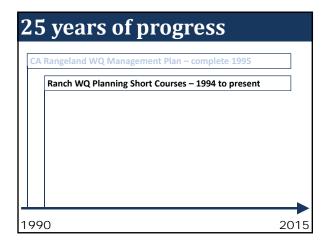
Rangeland Watershed Program Integrate science, policy, and management. Effective policies and strategies to safeguard water quality. Education to identify and manage WQ risks. Ranch specific WQ management plans and actions. Supporting research base.













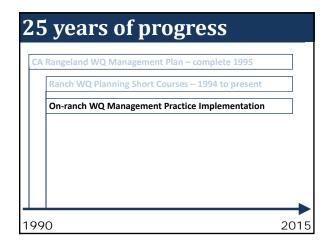
SWRCB funded curriculum development. 1994-2015, >80 courses taught, 35 counties, 1000+ ranches, 2+ million acres.

Ranch Water Quality Planning Short Course

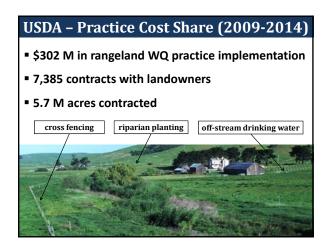


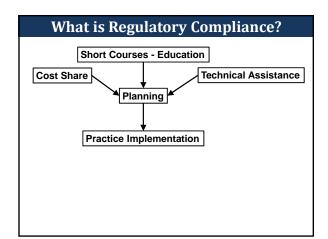


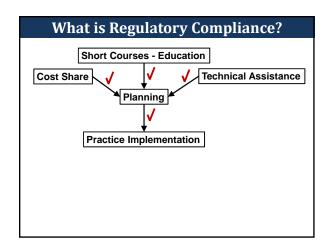


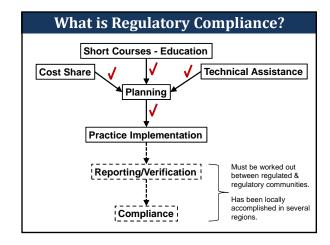


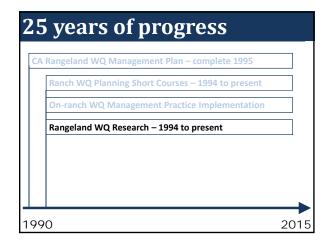




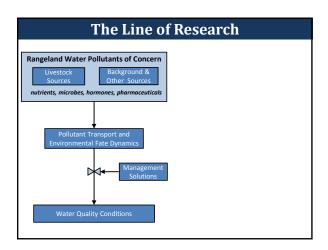


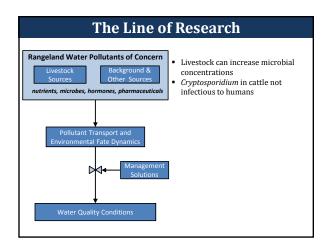


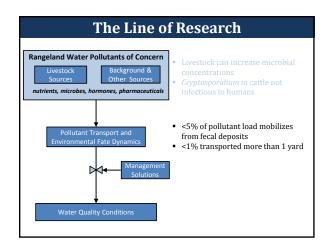


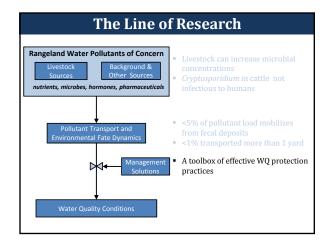


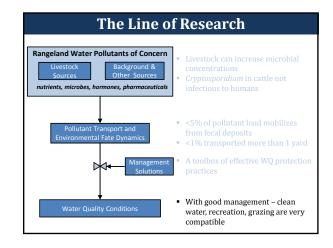




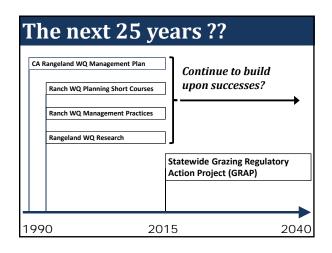






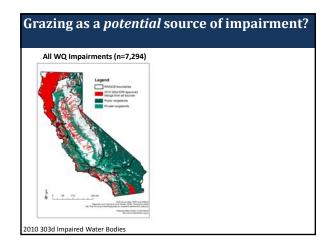


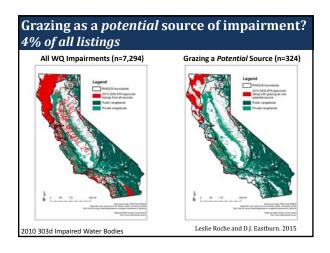




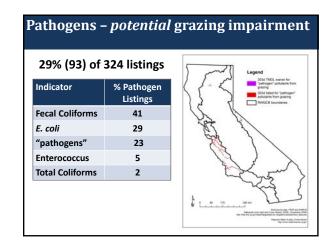


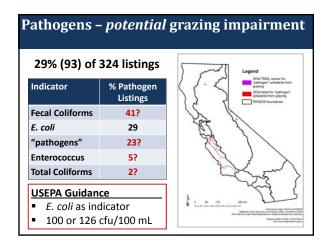


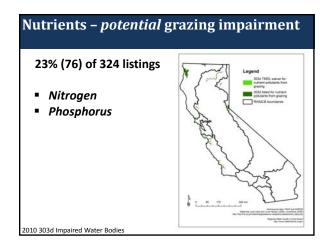


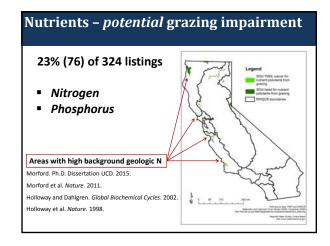


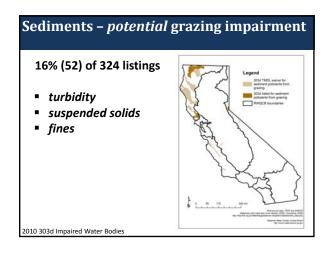
Grazing as a potential source of impairment? • 26% (85 of 324) of potential grazing impairments are pollutants not likely associated with grazing. All of these are in Central Coast RWQCB. **Pollutant** % Listings (No. Listings) Salinity 12% (39) рН 4% (14) Unknown toxicity 4% (13) Sediment toxicity 2% (6) Chlorpyrifos 3% (8) Diazinon 2% (5)











16% (52) of 324 listings - turbidity - suspended solids - fines TMDLs completed. Grazing not found to be a source. Roads and historic management. USEPA. Van Duzen River and Yager Creek Total Maximum Daily Load for Sediment. 1999. Lewis et al. California Agriculture. 2001.

Preliminary Findings

Grazing as a *potential* source of impairment

■ Represents only 4% of WQ impairments in CA.

2010 303d Impaired Water Bodies

Preliminary Findings

Grazing as a potential source of impairment

- Represents only 4% of WQ impairments in CA.
- 35% of these listings are already addressed w/ a TMDL, or some other compliance vehicle.

2010 303d Impaired Water Bodies

Preliminary Findings

Grazing as a potential source of impairment

- Represents only 4% of WQ impairments in CA.
- 35% of these listings are already addressed w/ a TMDL, or some other compliance vehicle.
- 26% are for pollutants not associated with grazing.

2010 303d Impaired Water Bodies

Preliminary Findings

Grazing as a potential source of impairment

- Represents only 4% of WQ impairments in CA.
- 35% of these listings are already addressed w/ a TMDL, or some other compliance vehicle.
- 26% are for pollutants *not associated* with grazing.
- 70% of microbial pollution listings are based on antiquated standards.

2010 303d Impaired Water Bodies

Preliminary Findings

Grazing as a potential source of impairment

- Represents *only* 4% of WQ impairments in CA.
- 35% of these listings are already addressed w/ a TMDL, or some other compliance vehicle.
- 26% are for pollutants *not associated* with grazing.
- 70% of microbial pollution listings are based on antiquated standards.
- GRAP claims 146 fewer potential grazing impairments than contained in 2010 303d list.

2010 303d Impaired Water Bodies

UC Next Steps

- Synthesis of Current Science
 - Peer-reviewed synthesis paper
 - Series of 1-2 page policy/informational briefs
 - One-stop-shopping online information page

UC Next Steps

- Synthesis of Current Science
 - Peer-reviewed synthesis paper
 - Series of 1-2 page policy/informational briefs
 - One-stop-shopping online information page

Scope of grazing as WQ impairment

- Complete analysis of SWRCB 303d evidence
- Online reporting of analysis and results
- Peer reviewed policy paper

UC Next Steps

- Synthesis of Current Science
 - Peer-reviewed synthesis paper
 - Series of 1-2 page policy/informational briefs
 - One-stop-shopping online information page
- Scope of grazing as WQ impairment
 - Complete analysis of SWRCB 303d evidence
 - Online reporting of analysis and results
 - Peer reviewed policy papers
- Participate in grass-roots "grazing water quality workgroup"
 - Renewal of the WQ partnership
 - Build on existing successes and partnership
 - A positive alternative

