

### Managing for Ecosystem Services

*Management Knowledge and Information Needs*

**Rod Tripp**, Ranger Supervisor, East Bay MUD  
**Anne Yost**, Range Program Leader, US Forest Service  
**David Lile**, Farm Advisor, UC Cooperative Extension  
**Jack Hanson**, Rancher, WC Ranch, Lassen County




### Managing for Ecosystem Services

*Management Knowledge and Information Needs*

**Charge to the Panel**

1. Describe your management responsibilities.
2. Ecosystem services you manage to achieve.
3. Opportunities and challenges to achieve services.
4. Information you need to manage for services.




### Rod Tripp

*Ranger Supervisor, East Bay MUD*

**My job at EBMUD**

- Range Program
- Patrol
- Fire Response Prep
- Environmental Ed



### Rod Tripp

*Ranger Supervisor, East Bay MUD*

**Ecosystem Services**

- Water Quality
- Biodiversity
- Fire/fuels Management
- Recreation



### Rod Tripp

*Ranger Supervisor, East Bay MUD*

**Challenges & Opportunities**

- Ah-ha Moments
- Weed Management
- Speed of a small organization
- Juggling many issues




### Rod Tripp

*Ranger Supervisor, East Bay MUD*

**Information Needs**

- Spp. Manage Cookbook
- Livestock vs. Water Quality
- Fire and hydrophobic soils on grasslands
- Economics of Grazing Leases
- Mulch Matting



**Anne Yost**  
*Range Program Manager, US Forest Service*

- Leadership for 18 Forests in CA.
- Manage for diverse public needs.
- Balance uses (timber, grazing, minerals) with other services (recreation, habitat, water).
- Comply w/ laws guiding National Forest management.



**Anne Yost**  
*Range Program Manager, US Forest Service*

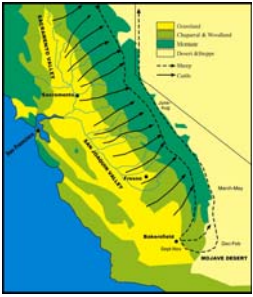
500 active allotments  
200 vacant allotments  
8,000,000 acres  
430,000 Animal Unit Months



**Anne Yost**  
*Range Program Manager, US Forest Service*

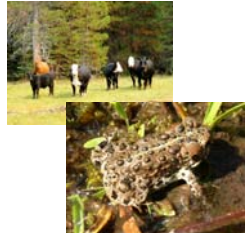
**Opportunities & Challenges:**

- Dispute over the role of public lands grazing.
- Effects and benefits of grazing on Forest lands.
  - To meet legal challenges.
  - Role of science and research in achieving our mission.

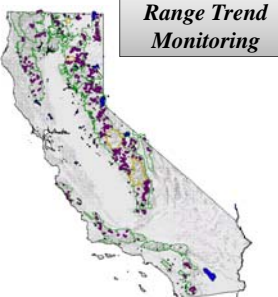



**Anne Yost**  
*Range Program Manager, US Forest Service*

**Yosemite Toad & Grazing Management**



**Range Trend Monitoring**



**David Lile**  
*Livestock & Natural Resources Advisor, UCCE*

- Research and extension to promote science-based principles for effective local land-use management
- Livestock, forage, water, wildlife, control of invasive species, etc.



**David Lile**  
*Livestock & Natural Resources Advisor, UCCE*

**Opportunities**

- Managing for multiple services provides basis for common ground and collaboration
- The science-based fundamentals are critical to success – sage grouse example



**David Lile**  
*Livestock & Natural Resources Advisor, UCCE*


**Challenges/Needs**

- Clear and consistent definition of terms
- Trade-offs / cost
- Risk (desired outcome)
- Context
  - Regulatory vs. incentives
- Definition of success?



**Jack Hanson**  
*Rancher, Lassen County*


- Owner/Operator Willow Creek Ranch (beef cow/calf)
- Primary ecosystem services manage for are livestock and grazing (our economic driver)
- Incentives for management of other ecosystem services?



**Jack Hanson**  
*Rancher, Lassen County*

**Challenges to the ranch enterprise;**

- Maintain economic value and sustainability
- Return on investment, risk and return on labor
- Profitability; balance both short-term *and* long-term
- Grazing on leased/rented land vs. owned property



**Jack Hanson**  
*Rancher, Lassen County*

**Information Needs:**

- Better understanding of ecosystem services
- Relationship to inter-generational sustainability