



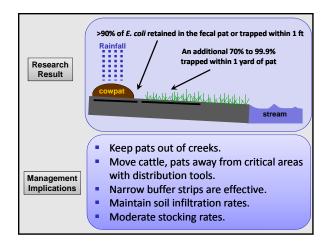
Do you know where your supplement is?

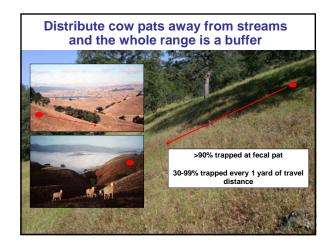
- Move existing supplement and water sites away from streams.
- Evaluate trails leading to and from existing and proposed sites – do they link site to stream during storms?

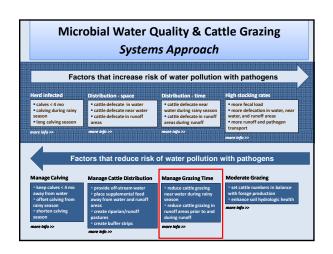




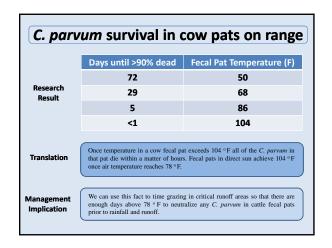


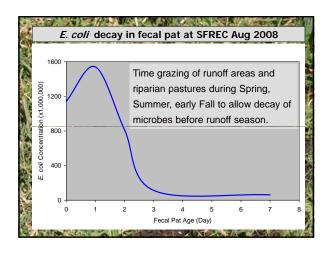


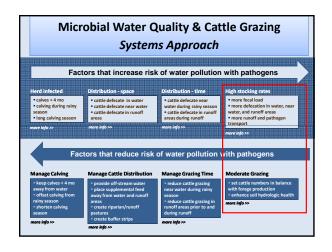


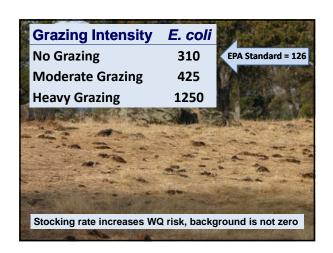














Functioning riparian areas filter pollutants from runoff



We examined filtration of pollutants in pasture runoff by two wetlands





Channelized Wetland

Reduction of Pollutants due to Wetland Functioning wetland Channelized wetland 80 -20 PO₄-P E. coli

Fencing to manage grazing along streams.

- · Exclusionary buffers, vegetation management for weeds, fuels, N uptake, etc.
- Riparian pastures, integrate into rotational grazing program based on timing, intensity, frequency of use.





Fencing to manage grazing along streams.

- · Reduce time spent in and near water - difficult during dry season without fencing.
- · Control time of use near stream.
- · Control intensity of use near
- May not be needed.





Example - putting the pieces together

- Warner Ranch
- Drinking water for Vista, CA
- Owned by Vista Irrigation District
- · Evaluated grazing plan leased for dairy replacement heifers.



