Central Coast Rangeland Coalition Fall 2016 Meeting

Vaquero Farms, Byron, California

October 20, 2016

1st Botanical baseline

Baseline Inventory Includes

- Species list and mapped distribution
- Site history
- Current management

Opportunities

- Constraints Develop common Dormant seedbank
- understanding - Unknown history
- Refine rarity classification - Poor soils maps

Purple needlegrass

Ecology

- Likes dry sites
- Tall statured
- Competes better in poor soils
- Long flowering season

Opportunities

- Low RDM favors
- Winter grazing —annual grass competition
- 3 years after fire

Constraints

- if grazed when bolting
- High site variability
- Low palatability

Tall statured wildflowers

Ecology

- Very diverse, many rare species
- Below ground food storage common
- Short lived seedbank



Low grazing favors, but no grazing threatens

Constraints

- Vulnerable much of year
- Tasty
- How many are enough?



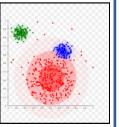
Goals

- **Ecologically realistic**
- Defined within reference system

Realistic Goals

- Species-specific
- Data driven

- **Unrealistic Goals** all native grasses
- all exotic species
- Adaptive - perennial plants



Pine bluegrass

Ecology

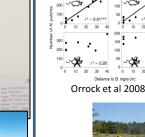
- Upland North facing slopes in arid areas
- Most widespread and common native grass in CA
- Short statured
- Early flowering
- Early senescence

??

Constraints

- Opportunities - Low biomass
 - Many unknowns
 - Difficult to find





Evolutionary disturbance regimes matter (and weeds matter)

Collins &

Glenn 1988







California oatgrass

Ecology

- Occurs in wet meadows
- Makes bunches or sods
- Short statured

Opportunities

- High RDM favors
- Winter grazing Lannual grass competition
- spring grazing 👢 velvetgrass competition

- High RDM increases fire mortality

Constraints

- High cover decreases diversity

Wildflower fields

Ecology

- Varied and diverse
 - Pollinator services important



Opportunities

- Low RDM favors
- Long lived seedbank Some hemi parasites

Constraints

- Nitrogen dep in polluted areas
- Climate variability
- Some toxic *en masse*

