

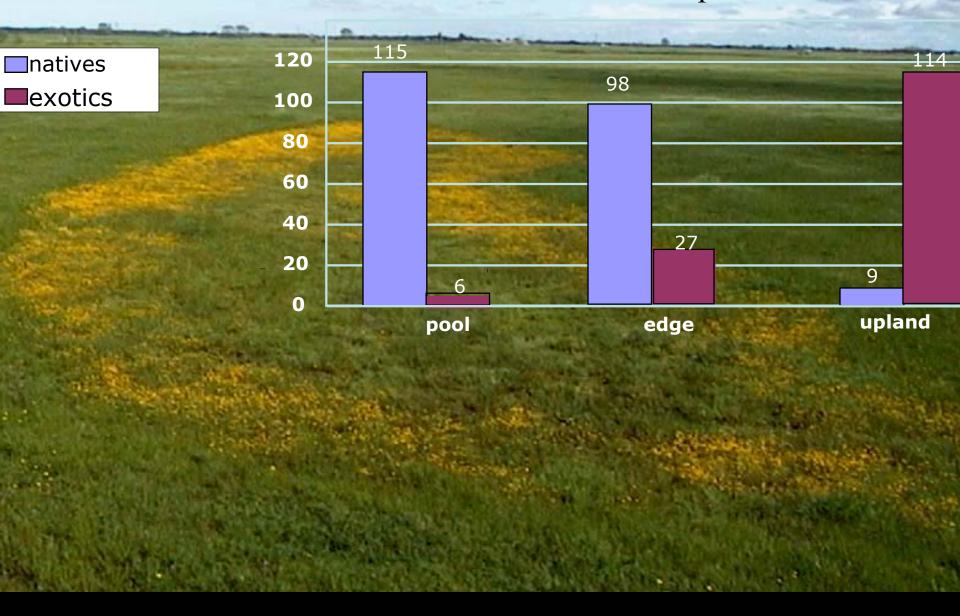




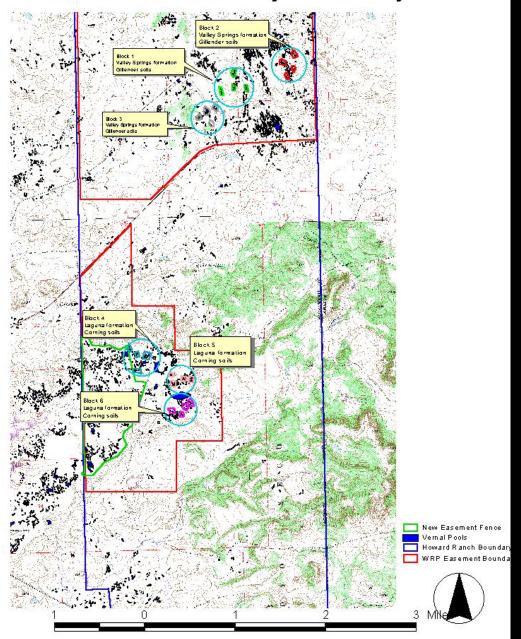




#### Percent Absolute Cover of Native and Exotic Species

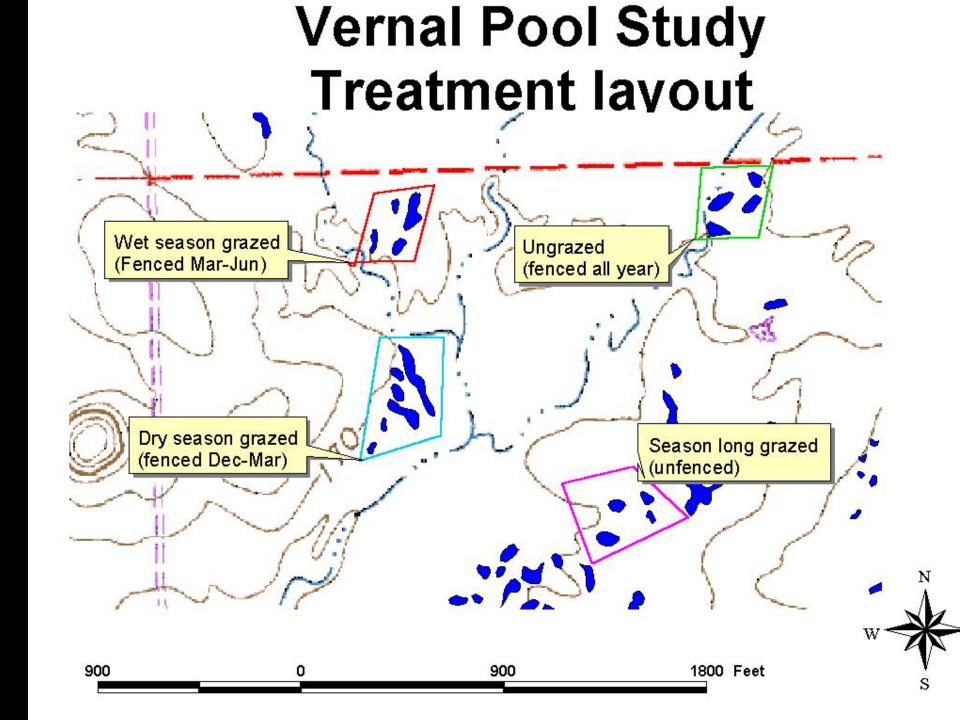


#### Howard Ranch Vernal Pool Study Block Layout

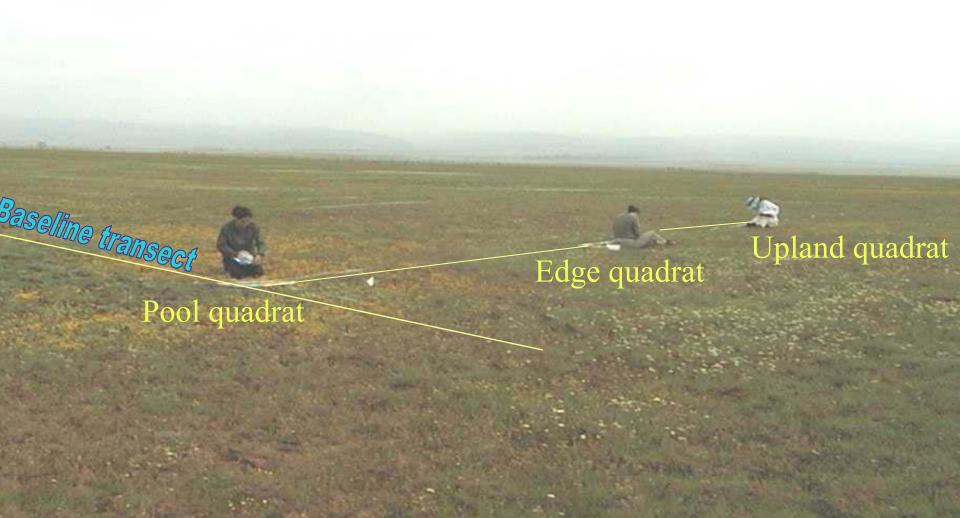


# Experimental design for grazing study

	Geologic formation		
	Valley Springs	Laguna	
Jngrazed	3	3	
Wet season grazed	3	3	
Ory season grazed	3	3	
Continuous grazed	3	3	Total replicates
Subtotal by geologic formation	12	12.	24



## Sampling Scheme for Vernal Pool Grazing Project

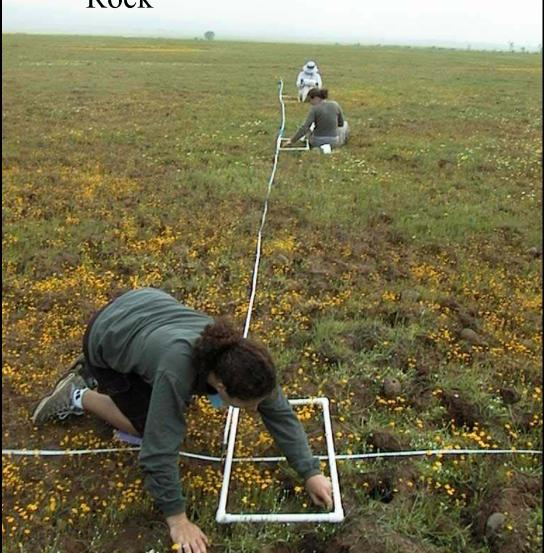




Plants Bareground

Thatch Cowpies

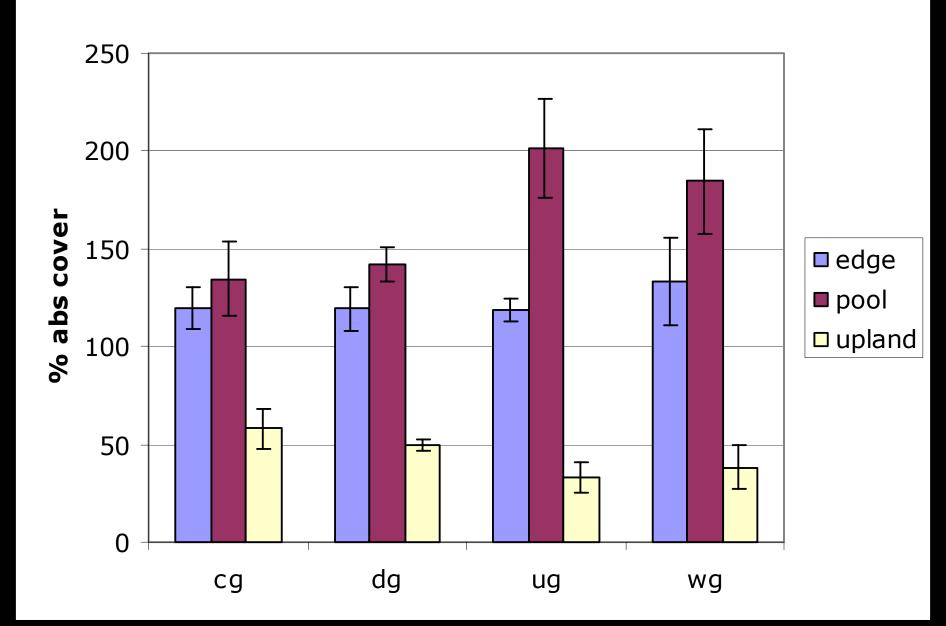
Rock



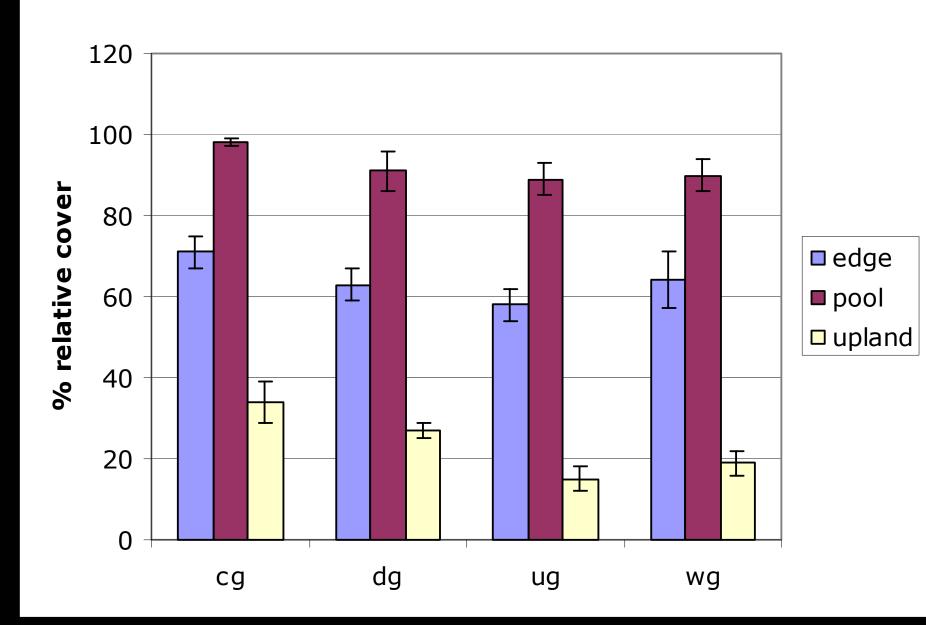




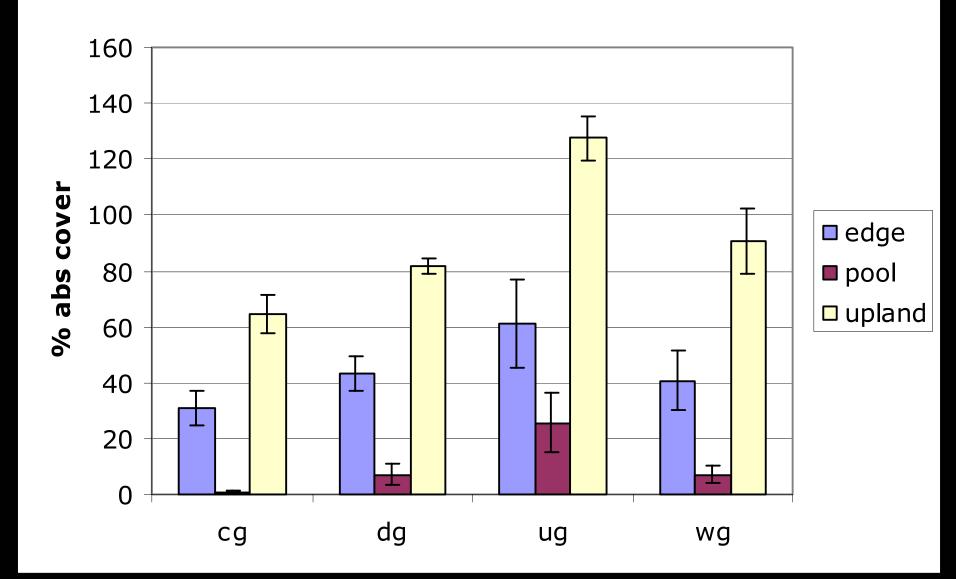
#### **Absolute cover natives-2nd year**



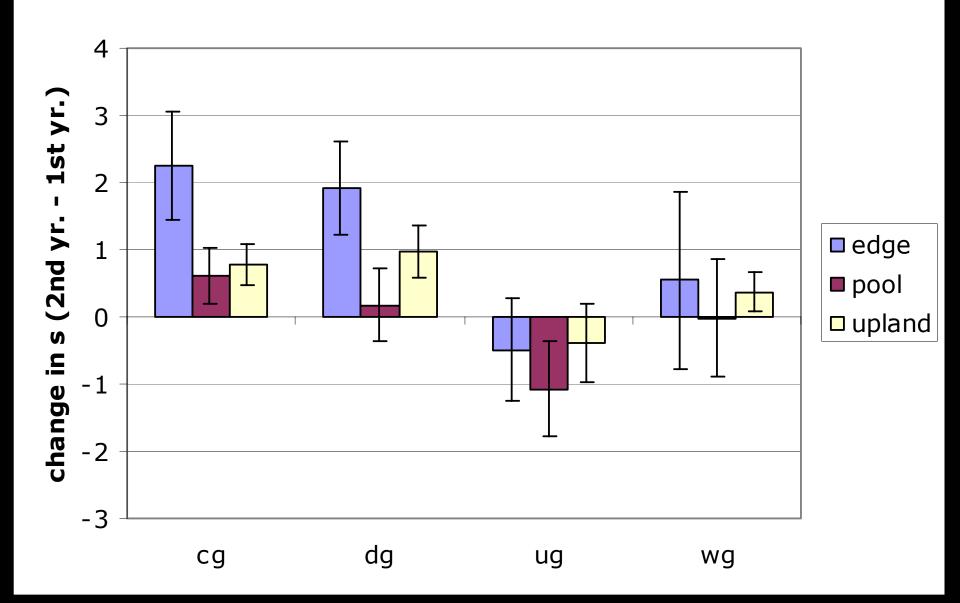
#### relative cover natives - 2nd year

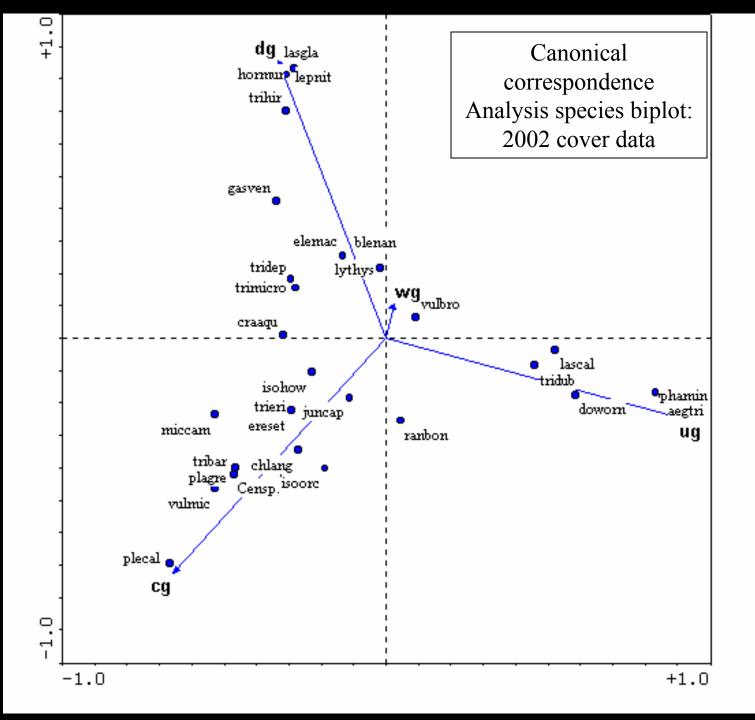


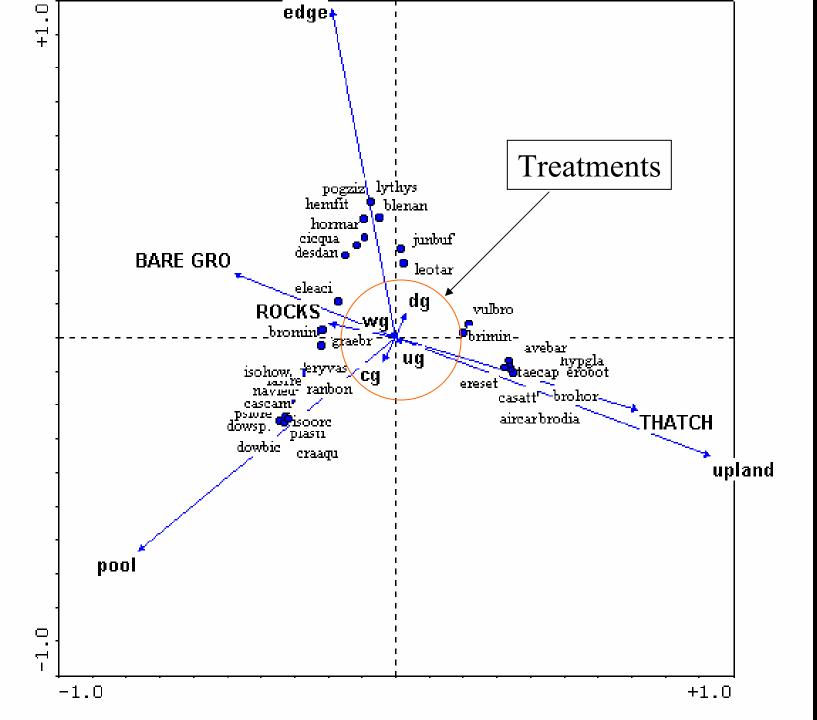
# absolute cover exotic annual grass - 2nd year



#### **Change in native species richness**







### Conclusions

- Continuous cattle grazing reduced the cover of exotic species, particularly annual grasses
- Relative cover of native species was highest in continuous grazed plots for all three zones
- Species richness declined in ungrazed plots and increased in continuous grazed plots
- Quadrat location and other variables explain more of the species variation than grazing treatment

