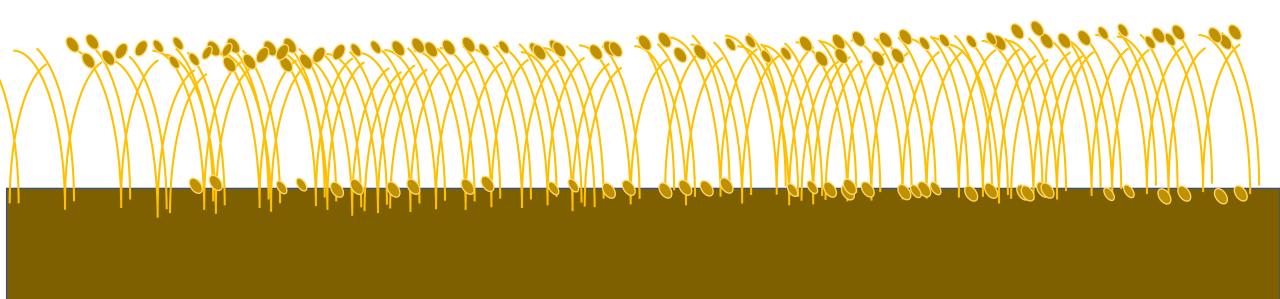
Prescribed Burning may produce refugia for *Oncosiphon piluliferum*

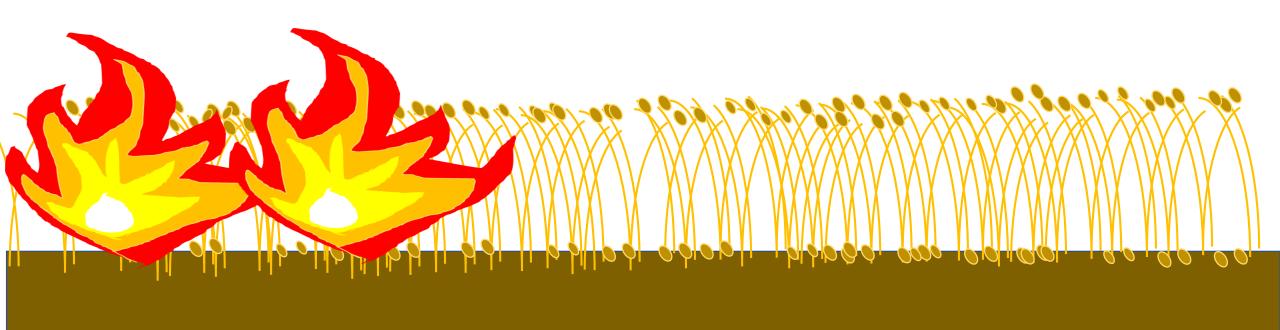
Stuart T. Schwab, G. Darrel Jenerette, Loralee Larios
University of California Riverside
Botany and Plant Science Department



• Californian grasslands heavily invaded by nonnative annual grasses



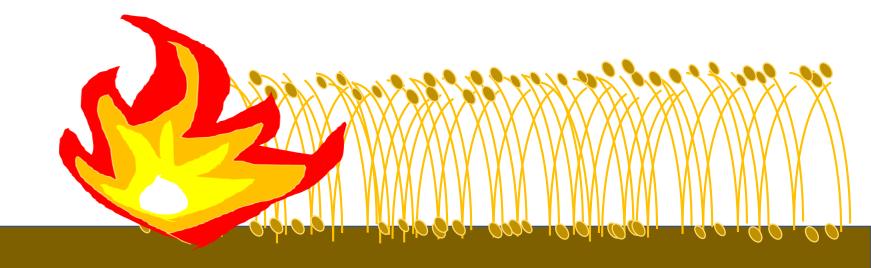
- Californian grasslands heavily invaded by nonnative annual grasses
 - Burning reduces grass cover



- Californian grasslands heavily invaded by nonnative annual grasses
 - Burning reduces grass cover
 - Consumes seed and litter



- Californian grasslands heavily invaded by nonnative annual grasses
 - Burning reduces grass cover
 - Consumes seed and litter



- Post burn landscape more open fewer grass seeds
 - Should have easier time getting native plants established





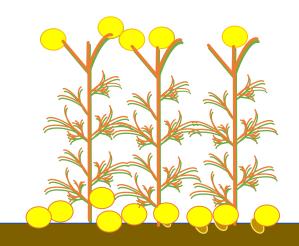
- Fire works on grass because:
 - 1) consumes seeds
 - 2) consumes litter



- Fire works on grass because:
 - 1) consumes seeds
 - 2) consumes litter



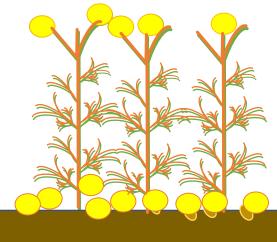
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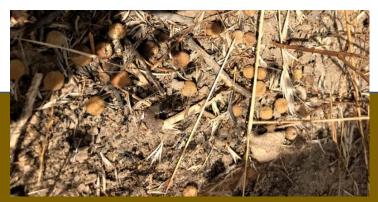


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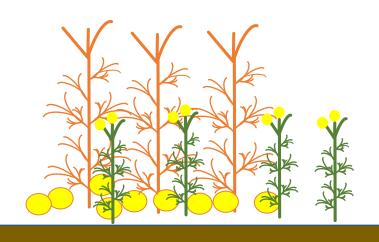


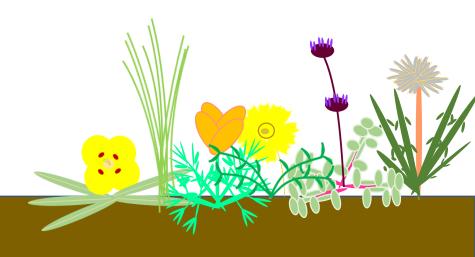




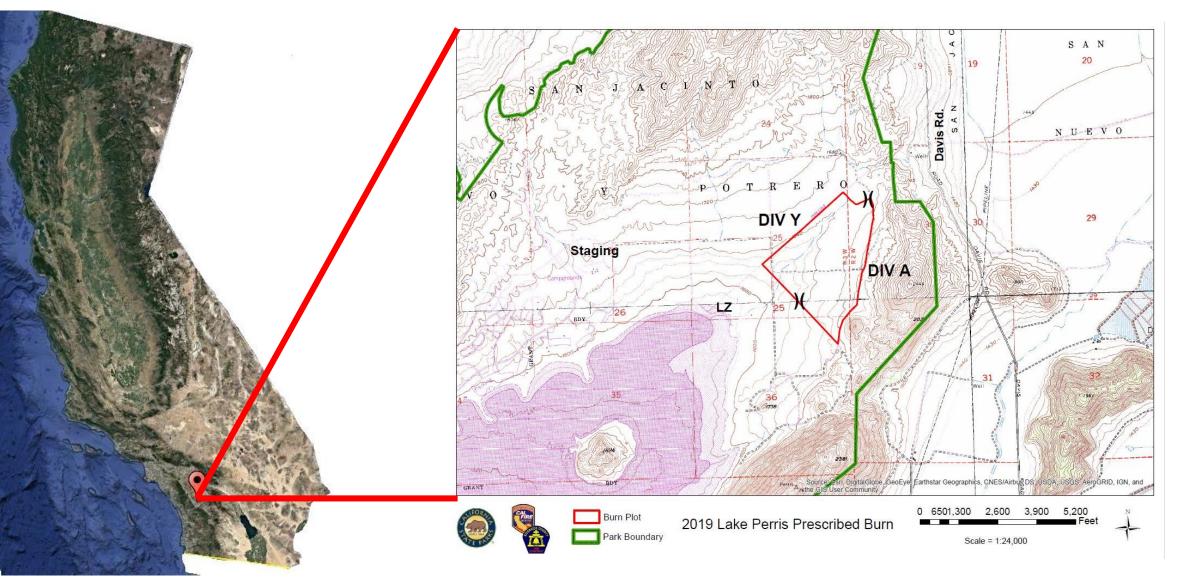
How do singed stands influence post fire recruitment?







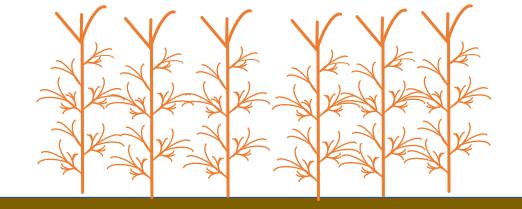
Lake Perris State Park, California, USA



Field Approach: Invasive seed availability

Complete burn

Singed stand

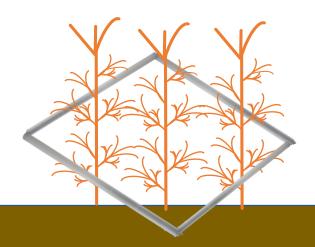


Field Approach: Microclimate



Measurements:

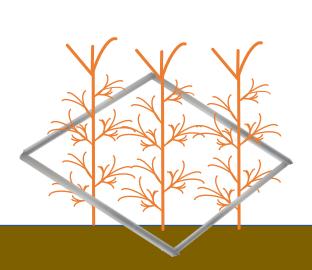
Community
Composition Data

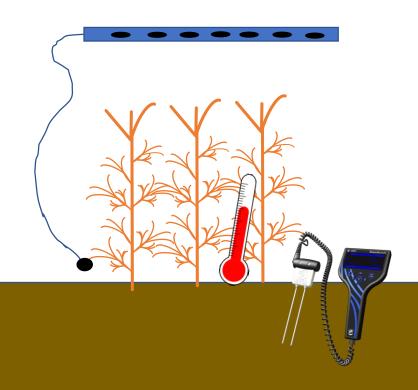


Measurements:

Community Composition Data

Environmental Data



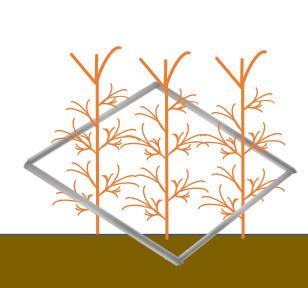


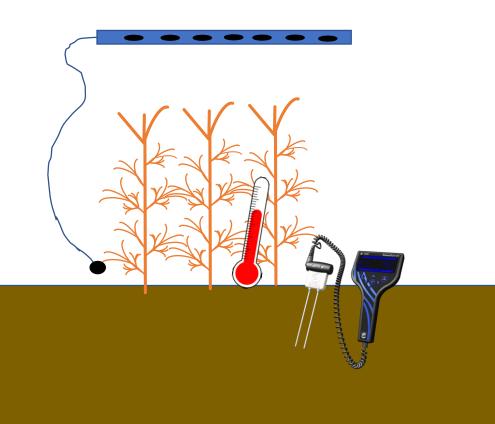
Measurements:

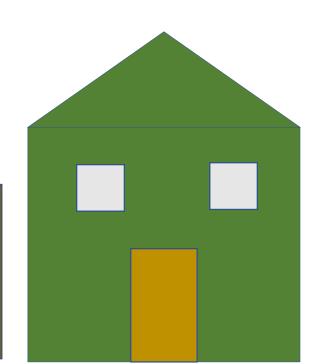
Community
Composition Data

Environmental Data

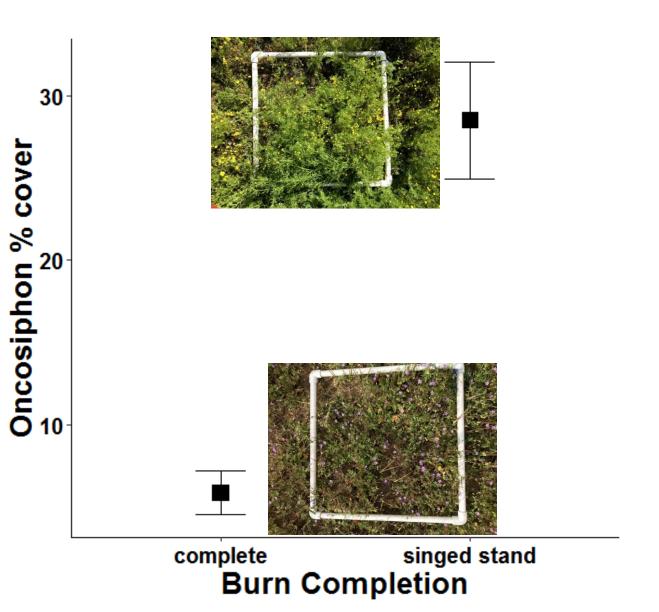
Seedling ID & Density



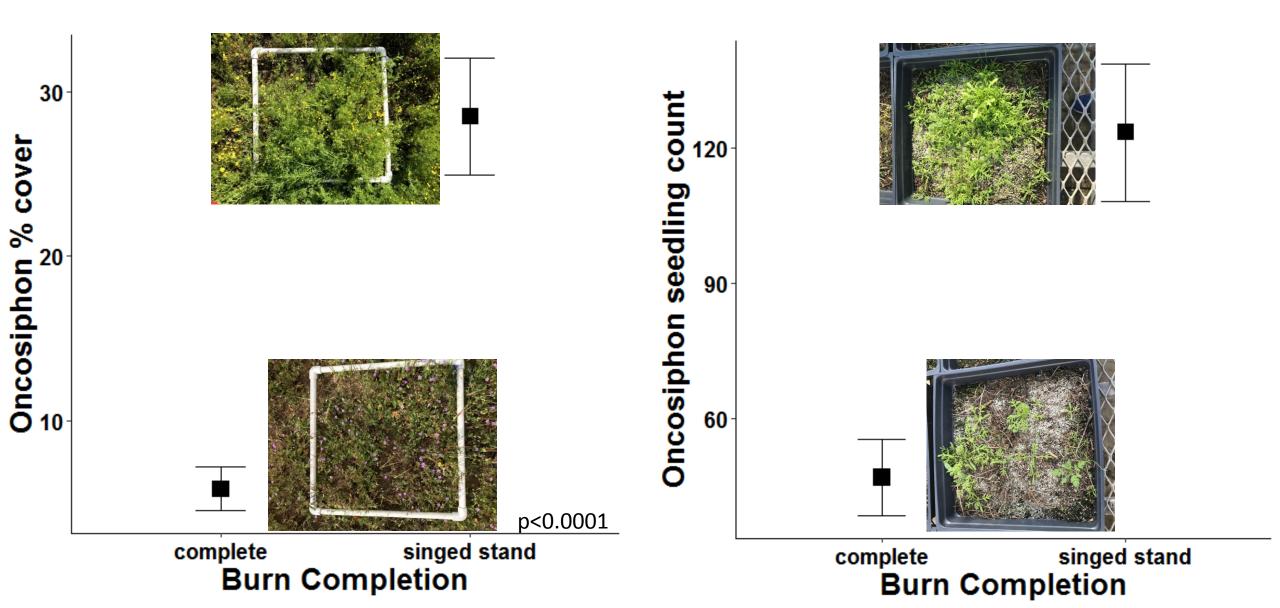




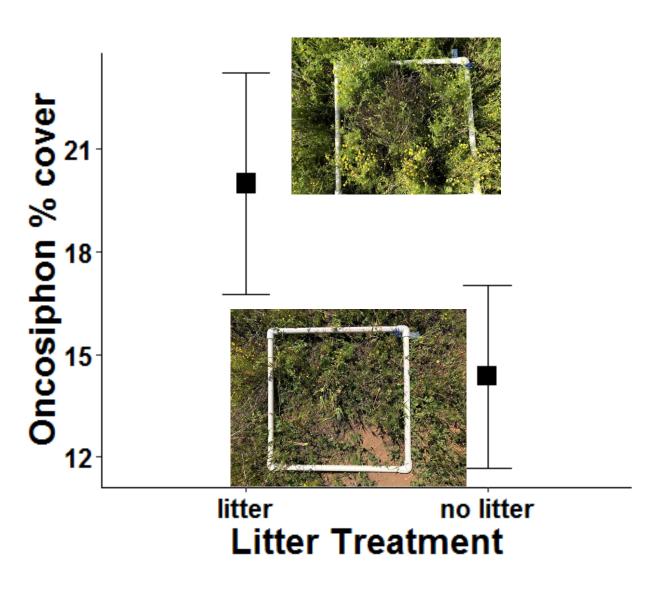
More stinknet cover in singed stands



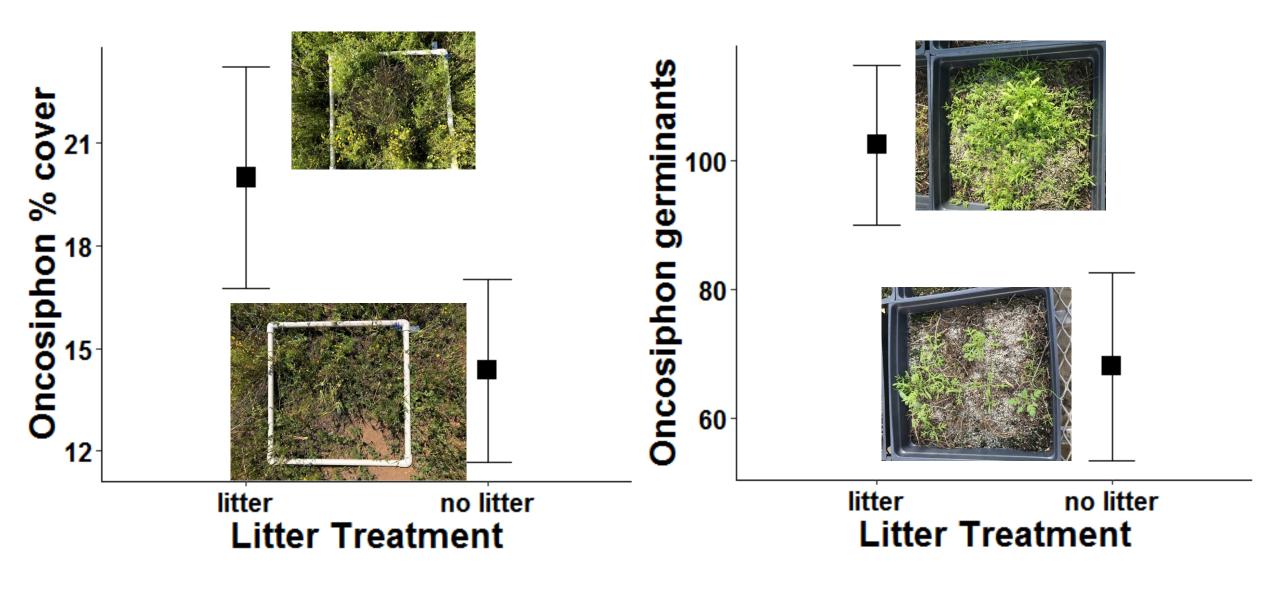
More stinknet seeds & cover singed stands



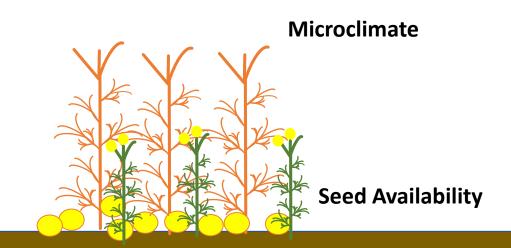
More stinknet cover with litter



More stinknet cover & seeds with litter



Stands contribute to stinknet recruitment



Conclusions and suggestions

- Singed stands alter recruitment post burn
- Singed stands might be accelerating the post burn reinvasion time

• Probably worth secondary treatments within burn area

Acknowledgements: Jenerette and Larios labs; California State Parks; Ken Kietzer Riverside County Habitat Conservation Agency

