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Impacts

- Transformer species create monocultures
- Poor forage or unpalatable during certain periods
 - Can reduce carrying capacity
 - Nasty awns/spines can cause injury to animals
- Medusahead is high in silica
- Produces a thick thatch
 - Prevents other plant seeds from contacting soil surface
 - Ties up nutrients







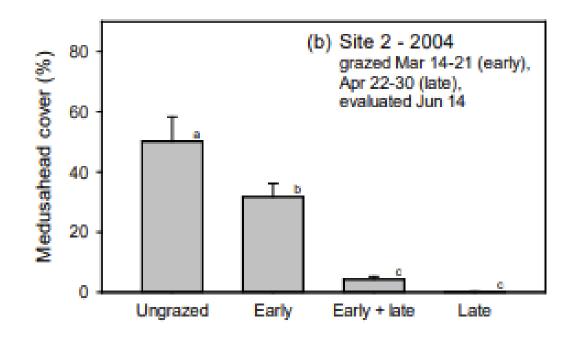
Why are these weeds invading?

- Weather
- Highly competitive
- Low palatability
- Low grazing pressure
- Grazing timing
- Grazing desirables and leaving the junk?



Grazing

The effects of timing on medusahead control



4 treatments:

- Ungrazed
- Early spring
- Early spring & late spring
- Late spring











Grazing Strategies

- High intensity short duration grazing
 - 2-3 week window (April May)
 - For Mh and Bgg, graze when awns are just starting to appear
 - For YST graze during the bolting stage
- Graze intensively throughout spring/summer

Other strategies

Increase utilization using supplement tubs



Grazing Hurdles

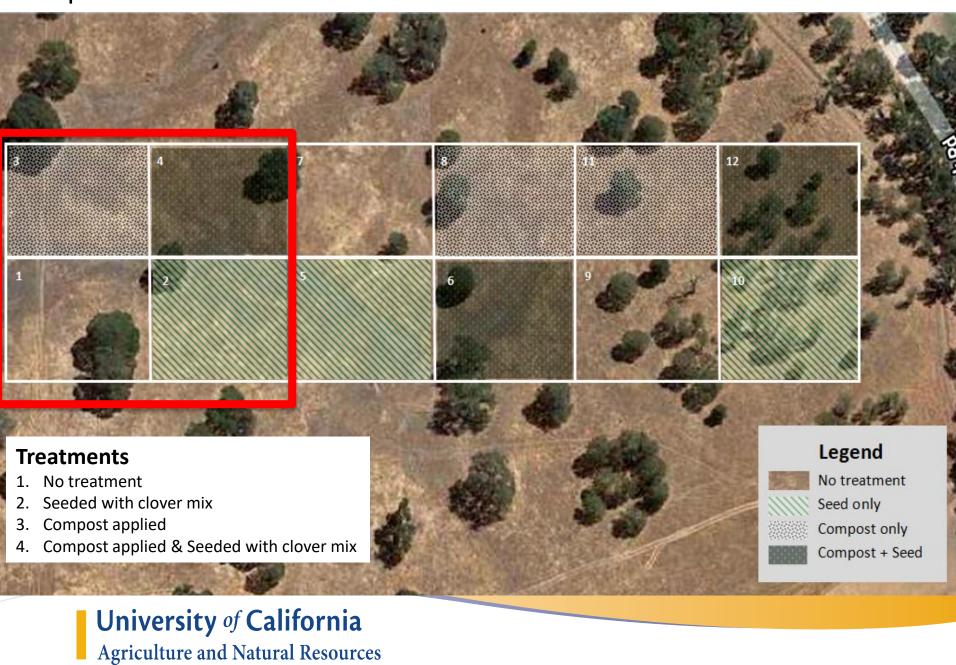
- California rangelands are not setup for intensive grazing
 - Consider cross fencing (funding might be available through NRCS – EQIP Program)
 - Portable electric fence
 - Increase utilization using supplement tubs
 - Virtual fencing
 - Herding with drones







Compost Trial





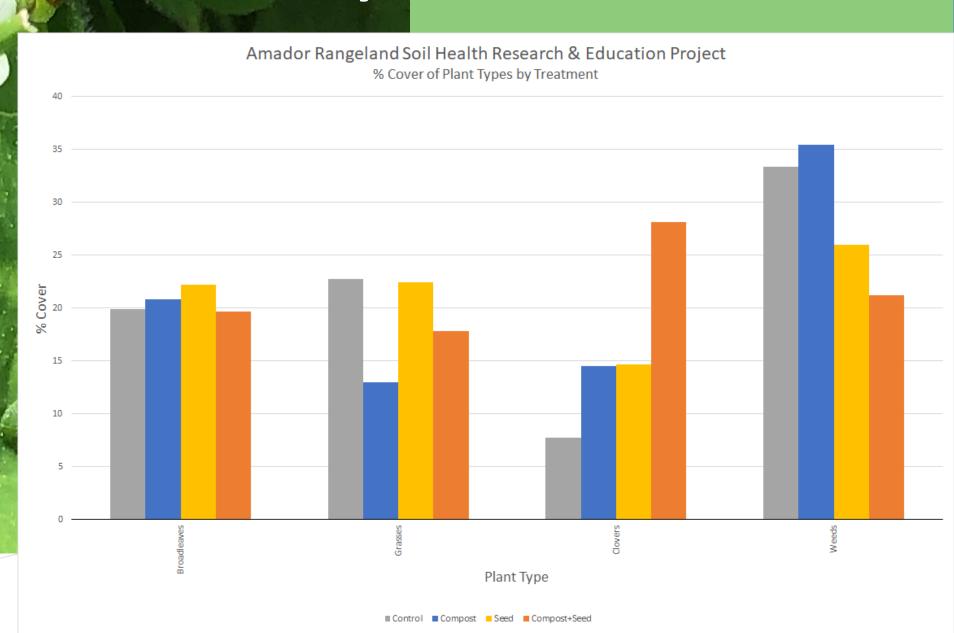
Agriculture and Natural Resources







Plant Diversity



6 Step Program

- 1. Know your enemy
 - Learn to identify your weeds
 - Learn about their biology
- 2. Develop a prescription for each pasture every year
- 3. Use all your tools
- 4. Prevent weed seed production
 - Annuals
- 5. Deplete seed bank
 - Yst: 3 5 years
 - Mh: usually one year
 - Bgg: 2 3 years
- 6. Monitor



Figure 1. have not prospered. Fature barb goatgrass. Photo: J. S. Davy. Barb goatgrass is on

joined goodgrass (Acquilles on Judicellas III) he others are goodgrass (Acquilles on Judicellas III) and counte goodgrass (Acquilles on Judicellas III) and counte goodgrass (Acquilles on III) and the goodgrass (Acquilles on III) and a counter goodgrass (Acquilles on III) and a counter goodgrass (Acquilles on III) and a counter goodgrass as a species that has a destinential economic importance, as it is the second-slighest of free goodgrass (Acquilles on III) and a self-minential economic importance, as it is the second-slighest of free goodgrass (Acquilles on III) and a self-minential economic importance, as it is the second-slighest of free goodgrass (Acquilles on III) and a self-minential economic importance, as it is the second-slighest of fire goodgrass (Acquilles on III) and the second continuation importance and the second continuation of the second continuation of the post, and the resulting ability for it to be controlled or evaluated.

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Resources

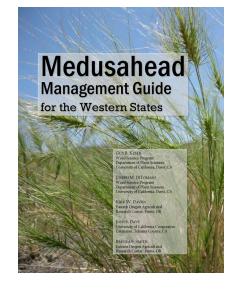


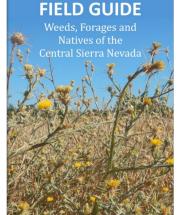


Weed Control in Natural Areas in the Western United States



http://wric.ucdavis.edu
http://matchgraze.com





http://pubhtml5.com/sucj/lode

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Sierra Foothill Research and Extension Center; and EMILIO A. LACA, Professor, Department

of Plant Sciences, University of

Barb Goatgrass and Medusahead: Timing of Grazing and Mowing Treatments

Barb quostprass (Aegilops triunclails L.) and mediusahead (Taeniatherum caput-mediusae (L.) Meveski) are invasive annual grasses that have spread or have the potential to spread throughout much of California's annual grasslands. Originally from the Mediterranean, Middle Eastern, and Central Asian regions, these species were first introduced to the western United States in the late 1800s or early 1900s.

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But postgrass primarily occurs in California, abbushup there are records from Washington, Oregon, and Nevada, as well as from some mid-Atlantic tatter (Merinberg et al. 2006). Medualsache al wideepread eventually a second of the second property are second property of the sec



Figure 1. Barb goatgrass and medusahead compared with other common annual grasses, showing a later phenology. Left to right: Barb goatgrass, jointed goatgrass, hare barley, medusahead, ripgut brome, soft brome. Photo: J. Davy.