San Benito County Weed Management Area
14th Annual Continuing Education Seminar for Ranchers

Opportunities with UC Cooperative Extension

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Livestock and Natural Resources Advisor

To get to website, Google “Trace Minerals UC Davis”

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New Page 1

animalscience.ucdavis.edu/MineralProject/

trace minerals uc davis

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Trace Minerals for California Beef Cattle,

University of California, Cooperative Extension

Home Page:
Index

General Information:
Selenium
Copper
Zinc
Phosphorus

Conversion Calculator

County List:
California County List

How to....
How to test (Sample)
How to Supplement

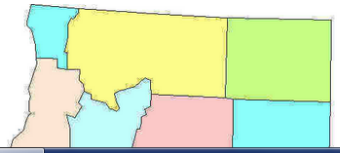
Research References
References

Welcome, to the Trace Minerals for California Beef Cattle homepage.

This homepage was designed to access California trace mineral information. Information on local or statewide mineral status is now just a mouse click away. This information is possible due to the Cooperative Extension system, county Livestock Farm Advisors, Specialists, the Renewable Resources Extension Act (RREA), and staff. Feel free to contact us (Drake, Oltjen, Maas, and Smith) if you have any questions or comments on the website, its information or its references.

Instructions: Use this website to learn more about beef cattle trace mineral nutrition in California. To learn more general information on the trace minerals Selenium, Copper, Zinc, and Phosphorous and their role in beef cattle health, click on the mineral names in the left hand toolbar. To learn more on county-specific information simply click on a county on the California map below or choose a county from the California county list, also located in the toolbar on the left.

Directions: Click on a county for more mineral information on that specific county. Or refer to the California county list.



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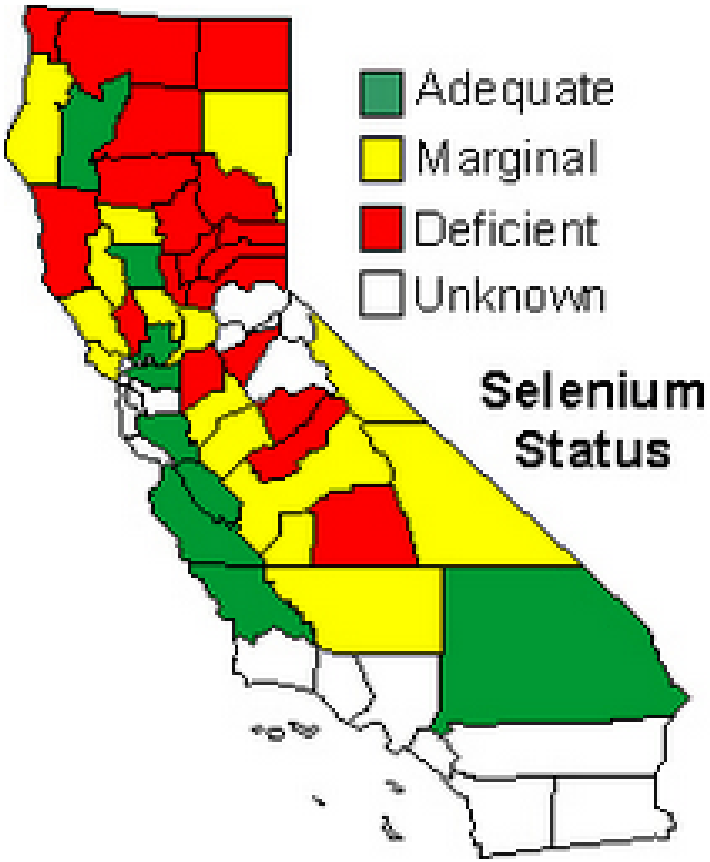
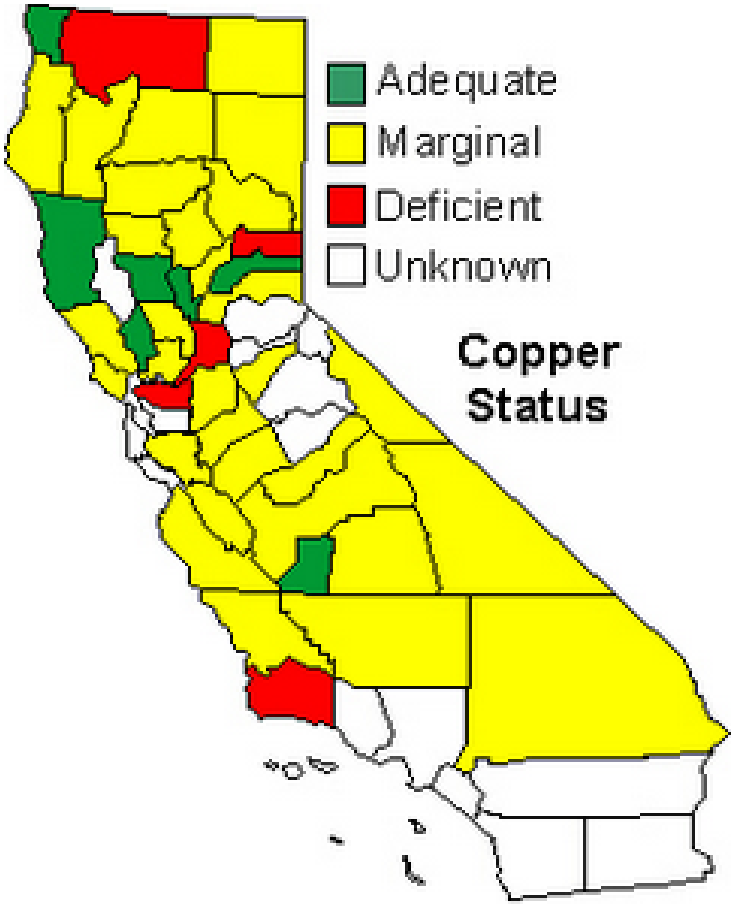
Selenium Status in Beef Cattle



Copper Status in Beef Cattle



Data Used to Make Maps

Data available for Selenium, Copper, Zinc, and Phosphorus deficiencies.
Class 3 refers to sick cattle.

Mineral	Counties		
	Santa Cruz	Monterey	San Benito
Selenium	Limited class 3 data suggests Se is adequate. **Further testing is needed for conclusive recommendations.**	Samples (66) submitted to the California Veterinary Diagnostic Lab (CVDL) suggest Se is adequate. **Additional samples are needed to add confidence to that assessment**.	Data from one herd (10 head) showed individuals ranged from 0.069 to 0.167 ppm whole blood selenium, the average was 0.106 ppm. This is considered adequate. **Additional data is needed to draw firm conclusions. Additional sampling of individual herds is recommended**.
Copper	**Insufficient data**	Class 3 serum and liver sample values indicate marginal Cu levels. **This limited data strongly suggests the need for further testing.**	Limited samples (39) submitted to the California Veterinary Diagnostic Lab (CVDL) suggest marginal Cu levels. However, insufficient data are available for conclusions. **Further testing is needed.**
Zinc	**Insufficient data**	Zinc appears adequate based on Class 3 data from the CVDL.	Limited samples (19) submitted to the CVDL suggest adequate Zn levels, however variation was large. **Insufficient data are available for conclusions. Further testing is recommended.**
Phosphorus	**Insufficient data**	**Insufficient Data**	**Insufficient data are available for conclusions.**

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Medusahead

- Identification
- Spread
- Impacts
- Control

All medusahead slides from Theresa Becchetti, Josh Davy, and Elise Gornish, UCCE

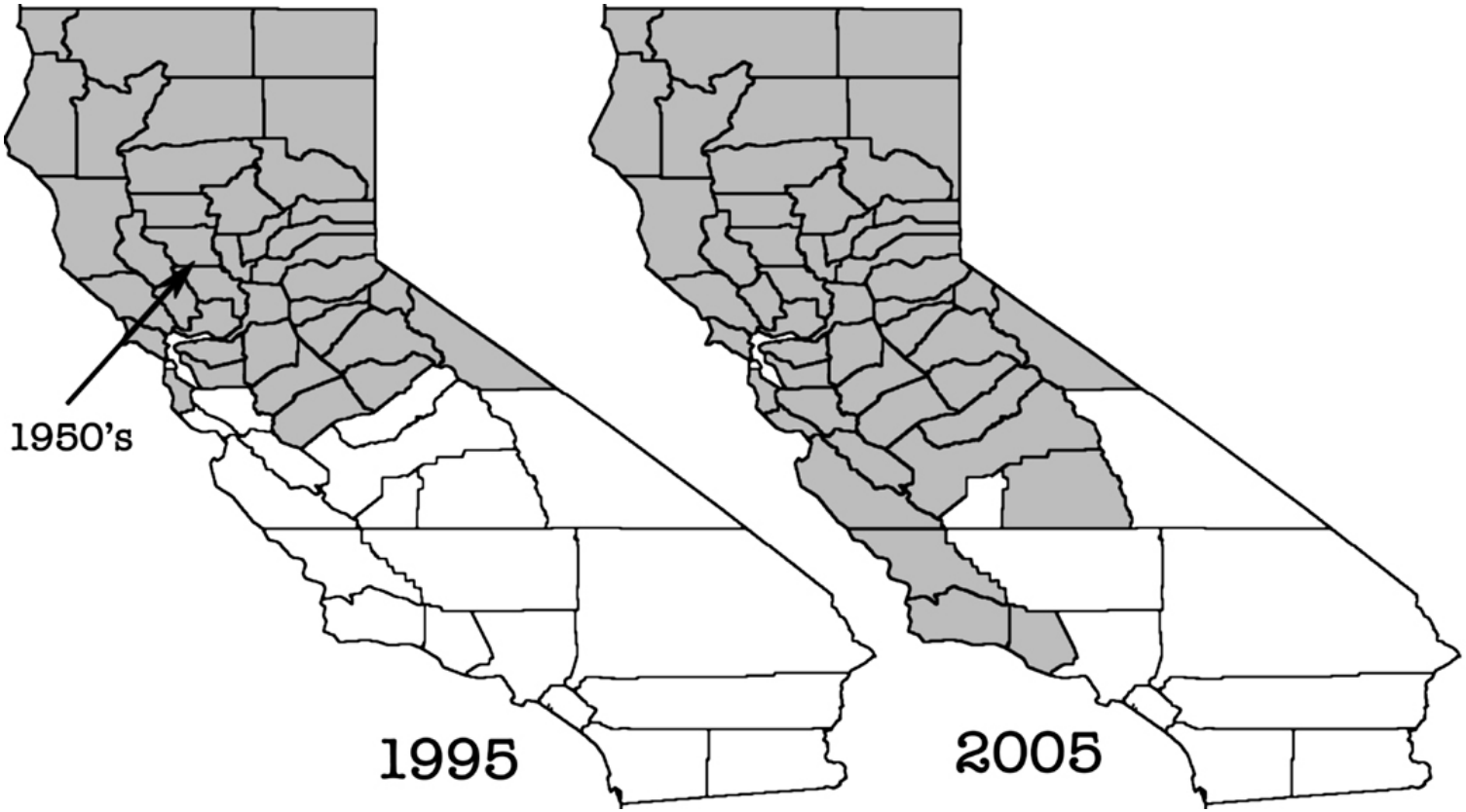

Barb goatgrass
Jointed goatgrass
Hare barley (foxtail)
Medusahead
Ripgut brome
Soft chess

History

Factors for Invasion

Seed Dispersal

History



Impacts of Invasion

Thatch

Impacts of Invasion

Fire

Impacts of Invasion

Decreased Grazing

How to combat?

Understand medusahead growth

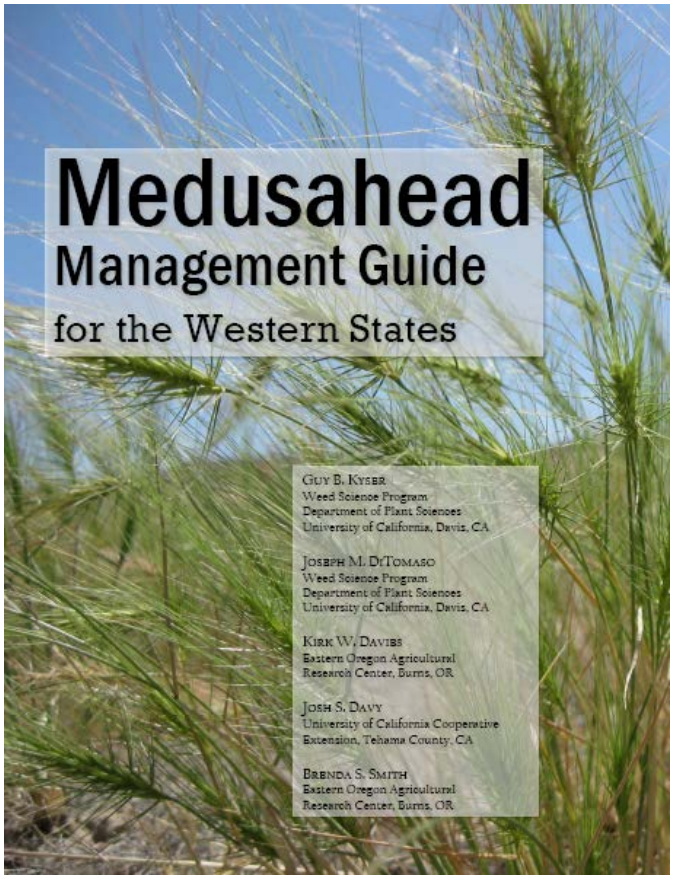
How to control medusahead

- Burning
- Herbicide
- Competition (seeding)
- Grazing
- Mowing

IPM approach

- IPM = Integrated pest management
- Best method of control is using different approaches within and across years
- This results in more complete Mh control + often comes with benefits to desired species and natives
- Single treatment applications will fail for long-term control

More information is in this guide! Download for free!!



http://wric.ucdavis.edu

Research Opportunity: Russian Thistle/Medusahead

Sign-up if you're interested in

- My newsletter
- Russian thistle/medusahead research project
- Mineral deficiency study (IF we get funded)
- Interview for my needs assessment (1 hour)

Thank You