Making a Difference for California



Tehama County
Cooperative Extension
1754 Walnut Street
Red Bluff, CA 96080
(530) 527-3101
http://cetehama.ucanr.edu

Don't forget about zinc in cattle mineral supplementation

Josh Davy – Livestock, range, pasture advisor

Zinc is included in almost all beef cattle mineral supplements. With the assistance of other advisors around California I have completed a recent survey evaluating the mineral status of cattle ranging from Sisikiyou to Los Angelos Counties. We collected serum from approximately 560 cattle in California. With how commonly included zinc is in almost all mineral supplement programs, it was surprising to find that 45% of the cattle sampled statewide were deficient in zinc. In the North state, deficiency was closer to 30%.

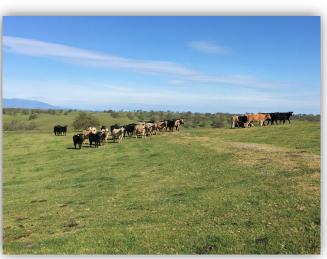
Zinc is important for follicle development, thus affecting reproduction. Deficiency can also negatively impact immune response, growth, wound recovery, and hoof health, and more.

Since nearly all areas of the state seem to have at least some prevalence of deficiency, checking cattle by either serum or liver testing is worth the investment. If deficiency is determined there is likely four factors to check

- 1. Is the zinc content high enough? In some cases it may need to be 5,000-6,000+ ppm in a supplement designed for 1 oz/hd/day consumption. Most cattle supplemented at this rate in the survey appeared adequate when in known deficient areas. Minerals consumed at higher rates, should accordingly have lower amounts of zinc to match these levels. Levels should be evaluated against copper in the supplement as well.
- 2. What form is the zinc supplement? Studies have shown lower response to zinc supplementation when it is in the oxide form. Other acceptable forms include methionine, sulfate, and chelated (organic). Although more expensive, chelated forms tend to be the highest in bioavailability. All three forms, not oxide, have shown to work well in long term supplementation programs.

However, for quicker attainment of adequate levels in deficient cattle, especially if antagonists like high sulfur drinking water are present, the chelated form of zinc may work best.

- 3. Is consumption adequate? Cattle don't store zinc for extended periods so knowing consumption is important. A 50 lb bag of mineral is 800 ounces. If it is designed for 1 oz/hd/day, 100 cows should finish the supplement in eight days. Consumption will vary, but on a seasonal basis, should match feeding directions. Supplement should be provided year round.
- 4. Injectable zinc has a short response time in terms of supplementation. This should not be the only source of zinc supplement in known deficient areas.



Making a Difference for California

Agriculture and Natural Resources



• HEALTHY COMMUNITIES • HEALTH Tehama County **Cooperative Extension** 1754 Walnut Street Red Bluff, CA 96080

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Prescribed Fire on Private Lands Workshop

Wednesday March 25, 2020

10:15 AM-3:30 PM

Glenn County Farm Bureau — 831 5th Street - Orland, CA 95963

<u>AGENDA</u>

10:15-10:30	Registration
10:30-10:45	Welcome & Introductions (Martin Spannaus & Ritta Martin, Glenn County RCD)
10:45-11:45	Options for prescribed fire on private lands, prescribed burn associations, liability,
	California state-certified burn boss, and common myths around prescribed fire
	(Lenya Quinn-Davidson, UCCE)
11:45-12:15	Reasons for using prescribed fire (Josh Davy, UCCE)
12:15-1:00	Lunch - RSVP required by 3/23/2020
1:00-1:45	Update from Humboldt County: prescribed burn objectives, project costs, burn
	windows, and bringing fire back to the people (Jeffery Stackhouse, UCCE)
1:45-2:00	Local landowner perspective on prescribed fire
2:00-2:15	CAL FIRE's Vegetation Management Program, other grant programs, and permits
	(CAL FIRE representative)
2:15-2:30	Air quality and smoke management (Pakou Cha, Glenn County Air Pollution Dept)
2:30-2:45	Suggested safety and personal protective equipment (Jeff Stackhouse, UCCE)
2:45-3:00	Burn planning considerations and unit preparation (Lenya Quinn-Davidson,
	UCCE)
3:00-3:15	Fire weather: useful websites and tools (Jeff Stackhouse, UCCE)
3:15-3:30	Interest in starting a Glenn County Prescribed Burn Association???
3:30	Closing & Thank You

REGISTRATION FEE: \$20 (cash, check or online) - RSVP required by 3/23/2020 **Register online:**

https://www.eventbrite.com/e/prescribed-fire-on-private-lands-workshop-orland-tickets-97794683531

Or call the Glenn County RCD at (530) 934-4601 x 5 Ritta Martin, Program Coordinator: ritta@glenncountyrcd.org



University of California Agriculture and Natural Resources



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IRRIGATED PASTURE WORKSHOP

Saturday, April 4, 2020

9:00 AM - 12:00 PM

All are Welcome-No RSVP needed

Los Molinos Veterans Hall — 7980 Sherwood Blvd. - Los Molinos, CA 96055

AGENDA

9:00-9:15 a.m.	Workshop sign-in and introduction
9:15-9:30	Water district goals and water user participation to achieve them. Bill Hardwick, General Manager, Los Molinos Mutual Water Company
9:30-10:00	Grazing management variables affecting irrigation timing and production efficiency on irrigated pastures. Josh Davy, UCCE Livestock and Natural Resources Farm Advisor
10:00-10:30	How much water is delivered and what irrigation practices help shorten the delivery interval? Allan Fulton, UC Irrigation and Water Resources Advisor
10:30 - 10:45	Need technical assistance? Arrange an on-site evaluation of your irrigation system. Kevin Greer, Irrigation Mobile Lab, Resource Conservation District of Tehama County
10:45-11:00	Looking for financial assistance? USDA Natural Resources Conservation District
11:00-11:30	Completing an irrigation and nitrogen management plan. Emmy Westlake. Shasta Tehama Water Education Coalition
11:30-11:45	Demonstration of weed wiper and discussion of weed control in irrigated pastures. Josh Davy, UCCE Livestock and Natural Resources Farm Advisor
11:45-12:00 p.m.	Plant ID Jeopardy Questions & Adjourn



Cooperative Extension

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Josh Davy

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Allan Fulton

UC Irrigation and Water Resources Farm Advisor Tehama, Glenn, Colusa, and Shasta Counties

UC Tehama County Director & Livestock / Natural Resource Advisor Tehama, Glenn, and Colusa Counties



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To simplify information, trade names of products have been used. No endorsement of named products is intended, nor is criticism implied of similar products not mentioned.

Prescribed Fire on Private Lands Workshop

March 25, 2020

\$20 Registration Fee

For more information Contact Glenn County RCD (530) 934-4601 x5

Irrigated Pasture Workshop **April 4, 2020**

This meeting is free to attend.

For more information Contact Tehama Cooperative Extension Office (530) 527-3101

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