



2023 Western Alfalfa & Forage Symposium

December 12-14, 2023 | Nugget Casino Resort | Sparks, NV

Soil Fertility and Health Workshop

**Program Subject to Change*

Time	Tuesday, December 12 Workshop
7:00—6:00 pm	Registration Open
7:00—8:00 am	Continental Breakfast (Workshop Participants Only)
Session I 8:00—9:30 am	Fertilizer Outlook and Trends <i>Moderator: Matt Yost, Utah State University</i>
8:00 am	Importance of Fertilizers and Soil Fertility in Forages <i>Daniel Putnam, University of California, Davis Davis, CA</i>
8:20 am	Role of Fertilizers to Promote Soil Health <i>Christopher W. Rogers, USDA-ARS</i>
8:50 am	Regenerative Agriculture, Soil Health, and Nutrient Inputs <i>Andrew McGuire, Washington State University Moses Lake, WA</i>
Session II 9:20—10:00 am	Sampling, Diagnosis, and Decisions (Sampling Breakout Sessions) <i>Moderator: Mark Nelson, Utah State University</i>
9:20 am	Soils Sampling Whole Fields and Site-Specific Management <i>Matt Yost, Utah State University Logan, UT</i>
10:00 am	Break
10:15—12:15 pm	Soil and Plant Diagnosis Problem Set: From Testing to Decisions
10:15 am	Alfalfa Fertility Problem Challenge (Med Season) <i>Grant Cardon, Utah State University Logan, UT</i>
10:45 am	Alfalfa Fertility Problem Challenge (Long Season) <i>Tim Hays, Buttonwillow Industries Buttonwillow, CA; Dan Putnam, University of California, Davis Davis, CA</i>
11:15 am	Cool Season Grass Problem Challenge <i>Steve Norberg, Washington State University Pasco, WA</i>
11:45 am	Small Grain Forage Problem Challenge <i>Mark Lundy, University of California, Davis Davis, CA</i>
12:15 pm	Lunch
Session III 1:15—3:15 pm	Economics <i>Moderator: Jody Gale, Utah State University</i>
1:15 pm	Performance of Public and Private Fertilizer Recommendations <i>Matt Yost, Utah State University Logan, UT</i>
1:45 pm	Effects of Soil Fertility on Alfalfa Forage Quality <i>Steve Norberg, Washington State University Pasco, WA</i>
2:15 pm	Economics of P and K Applications in Alfalfa <i>Jon Paul Driver, Washington State University Usk, WA</i>
2:45 pm	Optimizing Fertilizer Applications in Forage Crops <i>Tim Hays, Buttonwillow Industries Buttonwillow, CA</i>
3:15 pm	Break
Session IV 3:30—5:00 pm	Soil Amendments <i>Moderator: Jared Spackman, University of Idaho</i>
3:30 pm	Precipitated Calcium Carbonate as a Lime Amendment <i>Jared Spackman, University of Idaho Aberdeen, ID</i>
3:45 pm	Manure and Organic Amendments Best Practices <i>Abigail Baxter, USDA-ARS Kimberly, ID</i>
4:15 pm	Saline and Sodic Soil Management <i>Grant Cardon, Utah State University Logan, UT</i>
4:45 pm	Issues/Problems from the Audience, Including Questions from the Audience
5:00—7:00 pm	Symposium Welcome Reception <i>Hors D'oeuvres and Cocktails, Exhibits, Posters, and CA Alfalfa & Forage Research Foundation Auction Bid Sheets</i>

Stay up to Date with the Program at calhaysymposium.org.