



# 2023 Western Alfalfa & Forage Symposium

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

## Soil Health and Fertility 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)   |
| <b>Session I</b>      | <b>Fertilizer Outlook and Trends</b>   |
| 8:00 am               | <b>Fertilizer Supply and Demand Outlook</b><br><i>Carson Britz, Nutrien Ag Solutions   San Luis Obispo, CA</i>   |
| 8:30 am               | <b>Role of Fertilizers to Promote Soil Health</b><br><i>Christopher W. Rogers, USDA-ARS</i>  |
| 9:00 am               | <b>Regenerative Agriculture, Soil Health, and Nutrient Inputs</b><br><i>Andrew McGuire, Washington State University   Moses Lake, WA</i>   |
| <b>Session II</b>     | <b>Sampling, Diagnosis, and Decisions (Sampling Breakout Sessions)</b>   |
| 9:30 am               | <b>Soils Sampling Whole Fields and Site-Specific Management</b><br><i>Matt Yost, Utah State University   Logan, UT</i>   |
| 10:00—10:15 am        | <b>Break</b>   |
| <b>10:15—12:15 pm</b> | <b>Soil and Plant Diagnosis Problem Set Breakout Sessions: From Testing to Decisions (30 minutes each, choose 4 of 6)</b>  |
| A.                    | <b>Alfalfa Fertility Problem Challenge (Intermountain Short Season)</b><br><i>Anowar Islam, University of Wyoming   Laramie, WY</i>  |
| B.                    | <b>Alfalfa Fertility Problem Challenge (Med Season)</b><br><i>Grant Cardon, Utah State University   Logan, UT</i>  |
| C.                    | <b>Alfalfa Fertility Problem Challenge (Long Season)</b><br><i>Tim Hays, Buttonwillow Industries   Buttonwillow, CA; Dan Putnam, University of California, Davis   Davis, CA</i> |
| D.                    | <b>Cool Season Grass Problem Challenge</b><br><i>Steve Norberg, Washington State University   Pasco, WA</i>  |
| E.                    | <b>Warm Season Grass Problem Challenge</b><br><i>Steve Fransen, Washington State University   Prosser, WA</i>  |
| F.                    | <b>Small Grain Forage Problem Challenge</b><br><i>Mark Lundy, University of California, Davis   Davis, CA</i>  |
| 12:15 pm              | <b>Lunch</b>   |
| <b>Session III</b>    | <b>Economics</b>   |
| <b>1:15—3:15 pm</b>   |  |
| 1:15 pm               | <b>Performance of Public and Private Fertilizer Recommendations</b><br><i>Matt Yost, Utah State University   Logan, UT</i>   |
| 1:45 pm               | <b>Effects of Soil Fertility on Alfalfa Forage Quality</b><br><i>Steve Norberg, Washington State University   Pasco, WA</i>  |
| 2:15 pm               | <b>Economics of P and K Applications in Alfalfa</b><br><i>Jon Paul Driver, Washington State University   Usk, WA</i>   |
| 2:45 pm               | <b>Optimizing Fertilizer Applications in Forage Crops</b><br><i>Tim Hays, Buttonwillow Industries   Buttonwillow, CA</i>   |
| 3:15 pm               | <b>Break</b>   |
| <b>Session IV</b>     | <b>Soil Amendments</b>   |
| <b>3:30—5:00 pm</b>   |  |
| 3:30 pm               | <b>Precipitated Calcium Carbonate as a Lime Amendment</b><br><i>Jared Spackman, University of Idaho   Aberdeen, ID</i>   |
| 3:45 pm               | <b>Manure and Organic Amendments Best Practices</b><br><i>Abigail Baxter, USDA-ARS   Kimberly, ID</i>  |
| 4:15 pm               | <b>Saline and Sodic Soil Management</b><br><i>Grant Cardon, Utah State University   Logan, UT</i>  |
| 4:45 pm               | <b>Issues/Problems from the Audience, Including Questions from the Audience</b>  |
| 5:00—7:00 pm          | <b>Symposium Welcome Reception</b><br><i>Hors D'oeuvres and Cocktails, Exhibits, Posters, and CA Alfalfa &amp; Forage Research Auction Bid Sheets</i>                            |

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