



## 2023 Western Alfalfa & Forage Symposium

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

### Main Session Program

*\*Program Subject to Change*

#### Time

#### Wednesday, December 13 | Main Session

6:30 — 6:00 pm

Registration Open

6:30 — 8:00 am

Continental Breakfast

7:00 — 7:00 pm

Exhibits/Posters/CA Alfalfa & Forage Research Foundation Auction Bid Sheets

#### Session I

#### Economics, Dairy, Trade, and Water Trends

**8:00– 10:00 am**

*Moderator: Daniel Putnam, University of California, Davis*

8:00 am

#### Welcome

*Daniel Putnam, University of California, Davis | Davis, CA*

8:05 am

#### Hay Industry Economic Trends

*Josh Callen, The Hoyt Report | Twin Falls, ID*

8:30 am

#### Hay Export Dynamics

*Scot Courtright, Courtright Enterprises, Inc. | Moses Lake, WA*

8:55 am

#### The Needs of Western Dairy Farmers and How Alfalfa Can Help

*Bruce Richards, Utah State University | Logan, UT*

9:20 am

#### New Markets for Alfalfa

*Jo Heuschele, USDA-ARS | St. Paul, MN*

9:45 am

#### Discussion

10:00 am

#### Break

#### Session II

#### Irrigation and Water Storage

**10:30—12:00 pm**

*Moderator: Matt Yost, Utah State University*

10:30 am

#### Dynamics of the Western Water Outlook for 2024

*Jeff Silvertooth, University of Arizona | Tucson, AZ*

11:00 am

#### Intermittent Agricultural Managed Aquifer Recharge (Ag-MAR) on Alfalfa

*Khaled Bali, UC Kearney Agricultural Research and Extension Center | Parlier, CA*

11:30 am

#### Adjusting Alfalfa to Highly Variable Water Supplies: Deficit Irrigation Strategies

*Daniel Putnam, University of California, Davis | Davis, CA*

11:45 am

#### Discussion

12:00 pm

#### Lunch

#### Session III

#### Pest Management

**1:20—3:00 pm**

*Moderator: Curtis Rainbolt, BASF*

1:20 pm

#### Alfalfa Weevils Across the Western United States are Resistant to Multiple Type II Pyrethroid Insecticides

*Erika Rodbell, Corteva Agriscience*

1:40 pm

#### Update on Low Desert Alfalfa Insects and Their Control

*Michael Rethwisch, University of California Cooperative Extension | Blythe, CA*

2:00 pm

#### Comparison of Methods of Controlling Pocket Gophers

*Mark Nelson, Utah State University | Beaver, UT*

2:20 pm

#### Panel: Emerging Threats (And How to Beat Them) in 2024

*Earl Creech, Utah State University; Giuliano C. Galdi, UCCE; Michael Rethwisch, UCCE; Rulon Fowers, Circle F Farms*

2:40 pm

#### Use of Drones for Weed Management

*Earl Creech, Utah State University | Logan, UT*

3:00 pm

#### Discussion

3:10 pm

#### Break

## Main Session Program Continued

<b>Session IV</b>	<b>Forage Quality</b>
<b>3:30—5:00 pm</b>	<b>Moderator: Jody Gale, Utah State University</b>
3:30 pm	<b>Key Measurements for Forage Quality</b> <i>Dave Taysom, Dairyland Labs Inc.   Arcadia, WI</i>
3:50 pm	<b>Influence of Fall Dormancy on Alfalfa Quality</b> <i>Steve Norberg, Washington State University   Pasco, WA</i>
4:10 pm	<b>Combination of Alfalfa &amp; Almond Hulls for Improved Forage Quality</b> <i>Katie Swanson, University of California   Davis, CA</i>
4:30 pm	<b>Steaming Impacts on Alfalfa Yield Loss and Forage Quality</b> <i>Earl Creech, Utah State University   Logan, UT</i>
4:50 pm	<b>Discussion</b>
5:00—7:00 pm	<b>Reception</b> <i>Hors D'oeuvres and Cocktails, Exhibits, Posters, and CA Alfalfa &amp; Forage Research Foundation Auction</i>

### Thursday, December 14 | Main Session

7:00 —10:30 am	Registration Open
7:00—8:00 am	Continental Breakfast
7:00—10:30 am	Exhibits Open/Posters on Display
<b>Session V</b>	<b>Soil Health and Fertility, Forage Systems, and Environment</b>
<b>8:00—10:00 am</b>	<b>Moderator: Hayes Goosey, Montana State University</b>
8:00 am	<b>Impacts of Soil Wetting Agents and Biologicals on Forage Production</b> <i>Matt Yost, Utah State University   Logan, UT</i>
8:25 am	<b>Interseeding Cover Crop into Silage Corn Grown on Wide Row Spacings</b> <i>Steven Hines, University of Idaho   Jerome, ID</i>
8:50 am	<b>Determining Temporal Changes in Soil Salinity in Forage Fields under Long Term Irrigation with Saline Drainage Water</b> <i>Sharon Benes, California State University, Fresno   Fresno, CA</i>
9:15 am	<b>Yield, Water Productivity &amp; Nutritional Values Response of Alfalfa to Irrigation frequency &amp; Cutting Schedules in California's Central Valley</b> <i>Sultan Begna, USDA-ARS   Parlier, CA</i>
9:40 am	<b>Discussion</b>
10:00 am	<b>Break</b>
<b>Session VI</b>	<b>Agronomic Practices</b>
<b>10:30—11:40 am</b>	<b>Moderator: Juan Solomon, University of Nevada, Reno</b>
10:30 am	<b>Planting Configurations and Irrigation Regimes Affect Yield, Quality, and Economic Returns of Alfalfa-grass Mixtures</b> <i>Anowar Islam, New Mexico State University   Las Cruces, NM</i>
11:00 am	<b>Alternative Forage Options</b> <i>Mark Marsalis, New Mexico State University   Los Lunas, NM</i>
11:30 am	<b>Discussion</b>
11:40 am	<b>Adjourn Symposium</b>

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