2024 California Alfalfa & Forage Symposium

December 10-12, 2024 – Sparks, Nevada

Poster Information

Background/Purpose:

The California Alfalfa & Forage Symposium brings together many varied interests, producers and aspects of alfalfa and forage production from across California and beyond the state borders. Unfortunately there is not enough time for presentations during the symposium from everyone who is working in the alfalfa and forage area, and much important information is unable to be shared.

To facilitate more education and increase information exchange, there will be a poster session for both students, advisors, specialists and other to share their research results related to alfalfa and forages displayed during the entirety of symposium for those who wish to share their information at the 2024 California Alfalfa & Forage Symposium. Posters developed and presented by students are also eligible for awards.

Procedure for poster consideration:

(1) Follow the instructions for submitting an abstract and **submit no later than November 1, 2024,** to a member of the Poster Review Committee (*see e-mail addresses below*). Submit the abstract electronically via e-mail along with the information page. Individuals submitting abstracts will be advised of acceptance/non-acceptance within 2 weeks after submissions are received.

(2) A separate abstract must be submitted for each poster proposed for presentation at the California Alfalfa & Forage Symposium.

(3) Posters are expected to provide new information about forages, and as such are expected to contain research related components.

(3) Select the appropriate areas for display grouping *(see submittal form below and return with the abstract).*

(4) Abstracts should be clear and well written, as they will be used in meeting publication/ proceedings materials. All accepted poster abstracts will be published. The submitted abstract (title, text and other information) should not exceed one (1) page. Abstracts will be screened for acceptability prior to acceptance.

(5) POSTER SET-UP/TEAR DOWN. Posters are expected to be on continuous display for the duration of the 2024 California Alfalfa & Forage Symposium. Poster set-up is Tuesday, December 10th from 8 a.m.- 4 p.m. We ask that all posters be displayed no later than 4 p.m., in advance of the Welcome Reception that begins at 5 p.m.

Please remove your poster between 10:30-11:00 a.m. on Thursday, December 12th. We unfortunately do not have the resources to return posters that are unclaimed.

(6) Maximum size of a poster will be 48" X 48". Felt backed display panels will be available for displaying the posters. Push pins should be used to mount the poster, and will be provided.

(7) Authors may provide contact information and handouts if desired.

(8) It is expected that authors will be available to address questions about posters during the evening receptions.

For additional information about the posters, please contact the following individuals:

Contacts/Information:	
Michael D. Rethwisch University of California Cooperative Extension – Riverside County 290 N. Broadway Blythe, CA 92225-1649 mdrethwisch@ucanr.edu (760) 921-5064	Dr. Daniela Bruno University of California Cooperative Extension – Fresno County 550 E. Shaw Avenue, Suite 210-B Fresno, CA 93710 dfbruno@ucanr.edu (559) 241-7552

2024 California Alfalfa & Forage Symposium Poster Submission Form

(please return this form as part of your poster submission)

Name: _____

Institution/Company:_____

Address: _____

_____

_____

E-mail: _____

Phone: _____

Poster Information *(please mark as appropriate):*
DH PUTNAM POSTER COMPETITION?: ☐ *Yes* ☐ *No*
** Must be a student currently enrolled in a university to participate in the DH Putnam Poster Competition.*

Forage area:
☐ Alfalfa ☐ Non-Alfalfa Legume ☐ Grass

Topic area:

☐ Pest/Pesticide ☐ Nutrition ☐ Irrigation/Water Use ☐ Other

Poster Title: _____

Please include the abstract as a separate electronic file in a Word format using **Times New Roman** font. See instructions on following page.

Format the abstract as follows (see accompanying example):

Abstract Paper and Margins
Should be formatted as 8 ½" x 11", with all margins (top, bottom, and sides) equal to one inch (1").

Title and Names: Poster title in 12 pt. **BOLD, ALL CAPS, and CENTERED**.

Names of author(s) in 12 pt.
Bold, both upper and lower (title) case. Names and addresses of authors should be footnoted.

Provide Citation in Footnote at Bottom of abstract page, with citation containing author name(s), professional title(s), address, e-mail, institution, contact information, and Proceedings information *(Use font size 9)*

Example as follows:
George G. Haymaker (ghaymaker@gmail.com) and Ricky Raker (rraker@alfalfaguy.org), Department of Hay Sciences, Hay-making University, Cubing City, CA. 95729. In: Proceedings, 2024 California Alfalfa and Forage Symposium, Sparks, NV, Dec. 19 – 21. UC Cooperative Extension, Plant Sciences Department, University of California, Davis, CA 95616. (See http://alfalfa.ucdavis.edu for this and other alfalfa symposium Proceedings.)

Abstract Narrative Text Font:
Times New Roman 12 pt. or a similar font. Single space text, double space between paragraphs, no indents. Scientific names (i.e., botanical names) should be written in italic type or underlined.

Abstract Length:
Entire submitted abstract (title, authors, narrative and institutional information) cannot exceed one (1) page.

Please include several **Key words** in **Bold** as shown in the accompanying abstract example (see attachment).

RECENT DEVELOPMENTS IN ALFALFA WEED CONTROL: GLYPHOSATE-INDUCED INJURY IN RR ALFALFA AND SHARPEN HERBICIDE

Steve Orloff and Rob Wilson[1]

ABSTRACT

Roundup Ready (RR) alfalfa has become a popular weed management strategy for alfalfa producers in western states. Considerable research was conducted before and shortly after its commercial release to evaluate its value in terms of weed control and crop safety. The research showed properly timed applications of glyphosate provided excellent weed control with essentially no perceptible crop injury, which was further confirmed by grower experience in commercial fields. However, during the spring of 2014 and 2015, we observed significant crop injury in RR alfalfa fields in the Scott Valley (Intermountain area of Northern California). Logical causes for the poor growth such as spray-tank contamination, a bad batch of glyphosate, or non-herbicide related management practices were systematically ruled out, and the theory was developed that cold temperatures after an application of glyphosate was the cause. Field experiments were conducted in spring and fall of 2015 to evaluate this theory. Research results and field observations to date suggests that the injury is related to the degree and number of frosts after application, the height of the alfalfa (taller alfalfa being more prone to injury), and stand age (no injury has been observed in seedling alfalfa and less injury on recently established alfalfa compared with fields established for over a year). Research is ongoing and will be expanded to better understand the conditions that lead to injury so that it can be avoided in the future and to understand the biochemical mechanism responsible for cell injury.

Sharpen (saflufenacil) recently received federal registration and is close to registration in alfalfa in California. It is a postemergence broadleaf herbicide that causes rapid and thorough burn down of foliage. Sharpen is very effective on some difficult to control broadleaf weeds including common groundsel and some weeds difficult to control with Roundup such as cheeseweed and wild buckwheat. Producers should heed label restrictions regarding application timing (90 or 75 days before harvest depending on the area) to avoid excessive crop injury.

Key Words: Herbicides, herbicide registration, phytotoxicity, transgenic alfalfa

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In: Proceedings, 2015 Western Alfalfa and Forage Symposium, Reno, NV, 3-4 December, 2015. UC Cooperative Extension, Plant Sciences Department, University of California, Davis, CA 95616. (See http://alfalfa.ucdavis.edu for this and other Alfalfa Symposium Proceedings.)