

OVERVIEW

Demonstration trial

Fall planting in 2023

No pre-treatment

On-going data collection and
management practice
implementation

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For over 100 years, UC
Cooperative Extension has
developed and provided
science-based information on
agriculture production and
natural resources to local
audiences.

Sierra Valley Irrigated Pasture Enhancement



Established demonstration site in the Fall of 2023 on existing irrigated pasture in Sierra Valley to illustrate the value of interseeding new forage varieties to improve forage production, along with water use efficiency, and drought resilience. We will continue the project into 2025 looking at soil fertility management, planting success, along with forage production and quality.

Ample Irrigation Site (wet):

Birdsfoot Trefoil
(2 lbs per acre)



Tall Fescue - Rustler
(12 lbs per acre)



Reed Canary Grass - Cheiftain
(3 lbs per acre)



White Dutch Clover
(1 lbs per acre)



Limited Irrigation Site (dry):

Birdsfoot Trefoil
(2 lbs per acre)



Meadow Brome - Cache
(4 lbs per acre)



**Rush Intermediate
Wheatgrass (6 lbs per acre)**



Forage Quality Analysis - July 2024:

	% Crude Protein	% ADF	% Crude Fat
WET UNSEEDED	7.1	32.1	2.8
WET SEEDED	8.4	36.6	2.2
DRY UNSEEDED	9.1	40.1	3
DRY SEEDED	8.4	40.5	2.6

*Results shared as Dry matter (DM), analysis after water (moisture) is removed from a feed.

Crude Protein: Estimate of the protein content. Protein is essential for maintenance and production (milk production, growth, gestation).

Acid Detergent Fiber (ADF): Includes cellulose and lignin, indicating digestibility. This is important for energy availability, as ADF increases, forage digestibility decreases so that the amount of energy obtained by the animal is less with high ADF forage compared with low ADF forages.

Crude Fat: Includes fats, oils, and other compounds soluble in ether. Fats and oils contain 2.25 times the energy found in carbohydrates and proteins.

Additional Reading:

- <https://ucanr.edu/sites/CEStanislausCo/files/302544.pdf>
- <https://extension.oregonstate.edu/sites/default/files/documents/em8801.pdf>