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SOIL HEALTH AND REGENERATIVE AGRICULTURE FOR THE CARSON RIVER WATERSHED

September 30th, 2022



HERDS & HARVEST™



EXTENSION
College of Agriculture,
Biotechnology & Natural Resources



The Nevada Herds & Harvest program combines a series of workshops on different topics, and provides educational business management and mentoring skill building to support Nevada agricultural producers. If you are interested in meeting with a mentor to build a specific enterprise budget for your agricultural operation, please contact the faculty member below to begin your mentoring experience.

Soil Health and Regenerative Agriculture for the Carson River Watershed

Hosted by the Carson River Coalition, Beginning Farmers & Ranchers Program and Rambling River Ranch

In Collaboration with Local Producers, Carson Water Subconservancy District, UNR Extension, Natural Resource Conservation Service, Local Conservation Districts, NV Division of Environmental Protection, and the Western Cover Crops Council -Southwestern Regional Committee

Please join us for a day to learn about the basic principles of soil health and regenerative agriculture, and how these practices can improve farm/ranch sustainability and economics, while improving and enhancing the water quality of our rivers and streams. Local producers and soil health experts will provide insights, and lead tours of fields under regenerative ag practices. You'll see equipment demonstrations, soil demo's, soil pit, and gain a fundamental knowledge about how to integrate soil health and regenerative practices on your farm and ranch.

For additional information contact:

Brenda Hunt, CWSD Watershed Program Manager [\(775\) 887-9005](mailto:brenda@cwsd.org)
Jamie Lee, Program Officer [\(775\) 426-8299](mailto:jamielee1@unr.edu)
Staci Emm, Extension Educator [\(775\) 475-4227](mailto:emms@unr.edu)
Kaley Chapin, Outreach Specialist [\(702\) 467-2668](mailto:kaleys@unr.edu)

► For Registration: <https://regenerativeagriculture.eventbrite.com>

Workshop Location:

Western States Hemp/
Rambling River Ranches
7491 Reno Highway
Fallon, Nevada 89406

Program Cost:

\$20 per person

Persons in need of special accommodations or assistance must call or notify Jamie Lee at 775-426-8299. This program was funded by the USDA, National Institute of Food and Agriculture.

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To find more resources and programs for beginning farmers and ranchers please visit www.Start2Farm.gov, a component of the Beginning Farmer and Rancher Development program.

2022 WORKSHOP AGENDA

8:30 – 9:00 a.m.

Check in and coffee

9:00 – 9:10 a.m.

Introduction and workshop overview/purpose

- Chuck Schembre, NDEP – Bureau of Water Quality Planning, Environmental Scientist
- Joe Frey, Owner, Farmer and Workshop Host

9:10 – 9:50 a.m.

Soil Health Basics: Intro to soil health, principles of soil health and regenerative ag, photosynthesis as the driver to building soil organic carbon. The three control centers of soil function; The importance of soil microbes. Soil Health Practices.

- Jim Komar, Natural Resource Conservation Service, Nevada State Soil Scientist.

9:50 – 10:20 a.m.

The Soil and Water Connection: What is good soil structure and soil aggregation, water infiltration, water holding capacity, soil resilience to erosion, and the role of soil health and regenerative practices for improving nutrient management and water quality. Soil Slake and Soil Infiltration Test.

- Chuck Schembre, NDEP – Bureau of Water Quality Planning, Environmental Scientist

10 min Break

10:30 – 10:50 a.m. Cover Crops for Building Soil Health in Nevada

- Maninder Walia – University of Nevada, Reno Extension
- Christopher Bernau – Great Basin Plant Materials Center

10:50 – 12:00 p.m.

The Producers Perspective: Soil Health Management Practice

- Joe Frey – The Economics of regenerative practices
- Tim Coverston – Diversified cover cropping, Alfalfa, farm diversity, soil health fundamentals
- Carson Valley Grower

12:00 – 12:15 p.m.

Intro to CWSD, the Carson River Coalition Ag Working Group and our On-Farm Pilot Projects,

The Carson Water Subconservancy District

- Brenda Hunt, Watershed Program Manager
- Shane Fryer, Watershed Program Specialist

12:15 p.m. – 1:15 p.m.

Lunch – catered by Wild Horse Café, Fallon, NV

1:15 p.m. – 1:45 p.m.

The Soil Rainfall Simulator Demonstration (Outside of barn)

- Zahahgir Kabir, NRCS Regional Soil Health Specialist

1:45 p.m. – 2:00 p.m.

Travel to Fields

2:00 p.m. – 4:00 p.m.

Rambling River Ranch Tour and Equipment Demonstrations.

Tour Rambling River Ranch, led by Owner and Farmer Joe Frey, and view multiple fields under regenerative ag and soil health management systems, including silage corn, alfalfa, hemp, and rotation grazing systems. Field observations and discussion will include no-till practice, roller crimping, winter cover cropping, weed issues and management, adaptive grazing, adding diversity to alfalfa, improving the farm riparian corridor, and more! There will also be a soil pit dug and soil science education.

- Joe Frey, Owner and Farmer

Return to Shop and Program Evaluation



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