



SOIL HEALTH FIELD DAYS

SEPTEMBER 28-29

AGENDA

MATADOR RANCH

DAY 1 - SEPTEMBER 28

8:00 AM - 5:30 PM

Registration & Welcome

Workshop Team

Meet fellow participants & prepare for two days of hands-on learning in the field.

Let the Soil Speak: Live Soil Health Demonstration

Ray Archuleta

Experience the rainfall simulator and soil health demonstrations & compare how different management practices affect water infiltration, erosion, soil structure, and nutrient retention.

Principles & Patterns of Nature

Ray Archuleta

Discover the principles that drive healthy, resilient ecosystems & learn how nature's design can be applied to working lands and ranch management.

Grazing in Sync with Nature

Alejandro Carrillo

Explore the art and science of adaptive grazing & learn how livestock can improve ecosystem function while supporting profitable operations.

LUNCH

Going Beyond Grasslands

Alejandro Carrillo

Learn advanced grazing management strategies & practical approaches to improving ecological health and ranch profitability.

Hands-on Field Exercises

Ray Archuleta

Practice using soil health assessment tools in the field and learn how to evaluate soil function and ecosystem health on your own operation.

Open Discussion & Q&A

Ray Archuleta + Alejandro Carrillo

DAY 2- SEPTEMBER 29

8:00 AM - 5:30 PM

Questions & Review

Workshop Team

Review key concepts from Day 1

Animal Genetics & Epigenetics

Ray Archuleta

Learn how genetics and epigenetics influence animal performance and resilience and how selecting the right animals can improve long-term ranch success.

Infrastructure: Watering & Fencing

Alejandro Carrillo

Understand how infrastructure supports adaptive grazing and learn practical strategies for designing efficient watering systems and fencing.

Four Processes Driven by Biology: Sunlight, Water, Nutrient & Diversity, Assessment Tools

Ray Archuleta

Explore the four ecosystem processes that drive healthy landscapes and how these biological processes improve soil function and productivity. Review soil health testing methods, including the Haney Test, PLFA, and genetic soil testing and how these tools can guide better management decisions.

LUNCH

Drought Management

Alejandro Carrillo

Develop practical strategies for managing grasslands during drought and learn how to build resilience while protecting long-term productivity.

Monitoring is Critical to Success

Ray Archuleta

Learn why monitoring is critical to regenerative management and adapt your management over time.

Case Study & Classroom Discussion

Ray Archuleta + Alejandro Carrillo

Work through real-world examples from working ranches and discuss practical applications and management strategies.

Closing & Wrap Up

Ray Archuleta + Alejandro Carrillo