

Noble Land Stewardship Program

~43,000 Acres

**14 LAND STEWARDSHIP
FOCUSED RANCHES**



Land Stewardship Measurable Baseline

- Soil Organic Carbon and Bulk Density
- Soil Texture
- % Organic Matter
- Water Extractible Organic C and N
- N, P, K + Micro's
- Biological Function (Haney & PLFA)
- Microbial DNA
- % Bare Ground
- Aggregate Stability

- Forage Production
- Plant Community Composition
- Plant Frequency

- Water Infiltration
- Water Holding Cap.
- Soil Moisture
- Soil Temperature

- Biodiversity
- Avian presence and abundance



Profile Stratification Tests

670 Cores at 6 depths= 4,020 Data layers

Servi-Tech

Test A Standard
(%OM, pH, CEC,
N, P, K, etc)

Ward Laboratories

Haney Test (CO²
Respiration, WEOC,
WEON)

PFLA (Microbial
Biomass)

Soil Organic Carbon

Total Nitrogen

Soil Texture

Cornell Soil Health Lab

Available Water Holding
Capacity

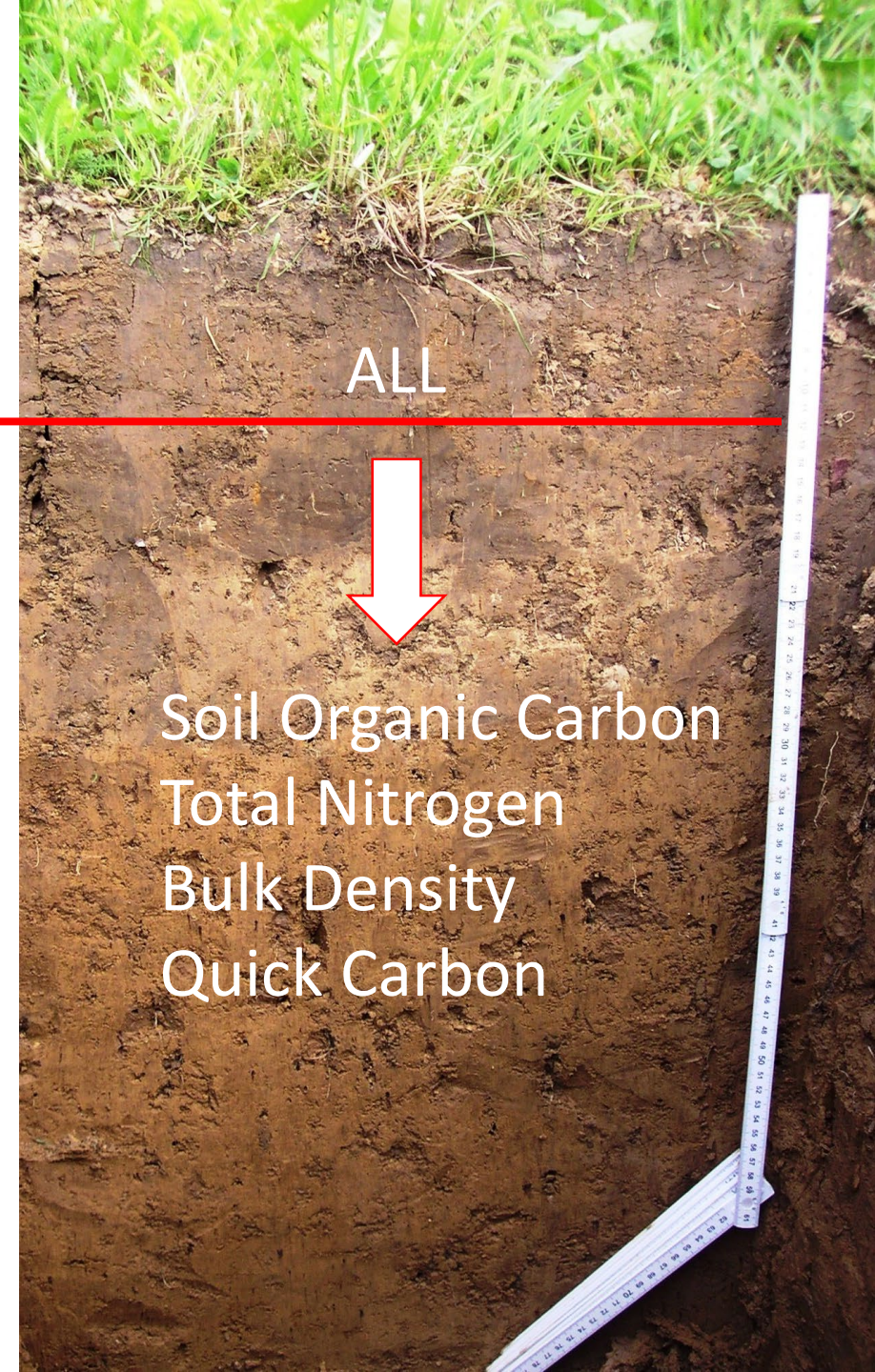
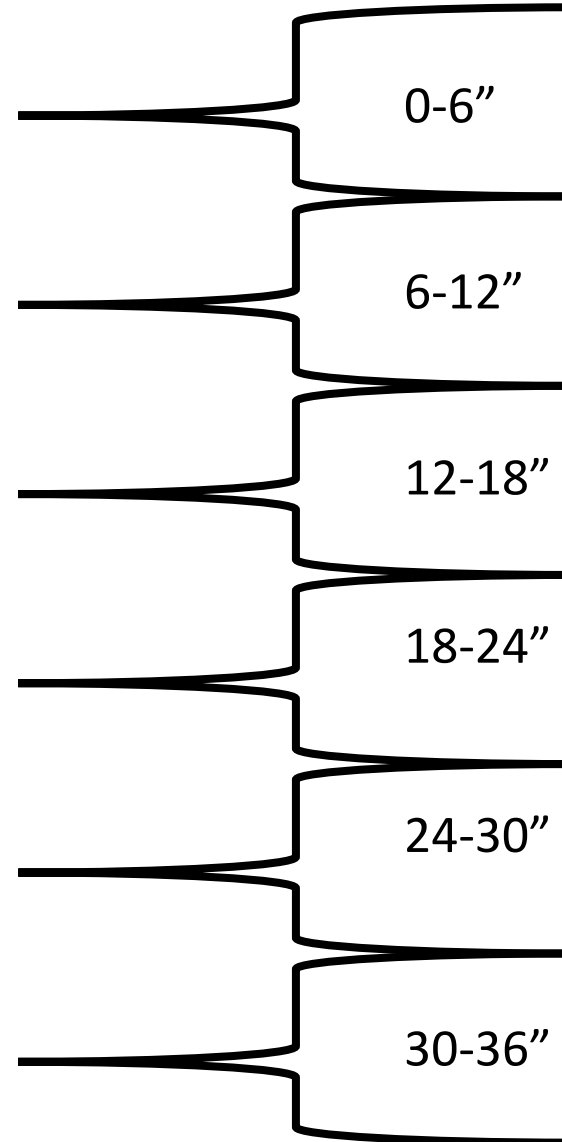
Noble Core Services

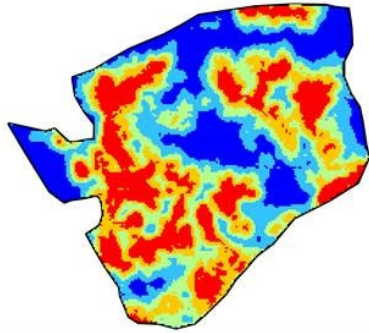
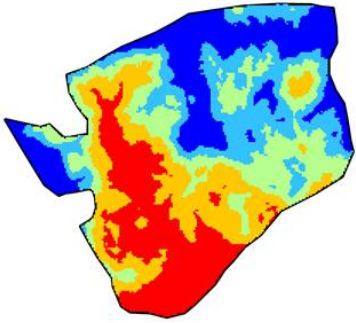
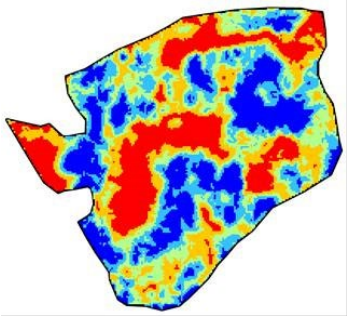
Quick Carbon**
Spectrometer

Bulk Density

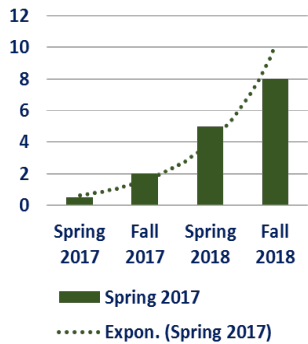
DNA Screening

Aggregate Stability

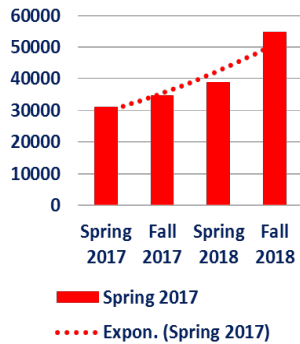




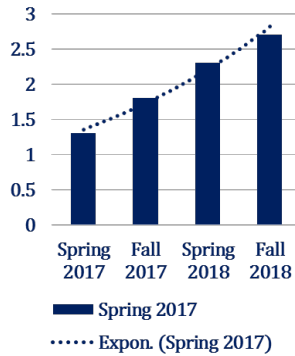
Average Infiltration Rate



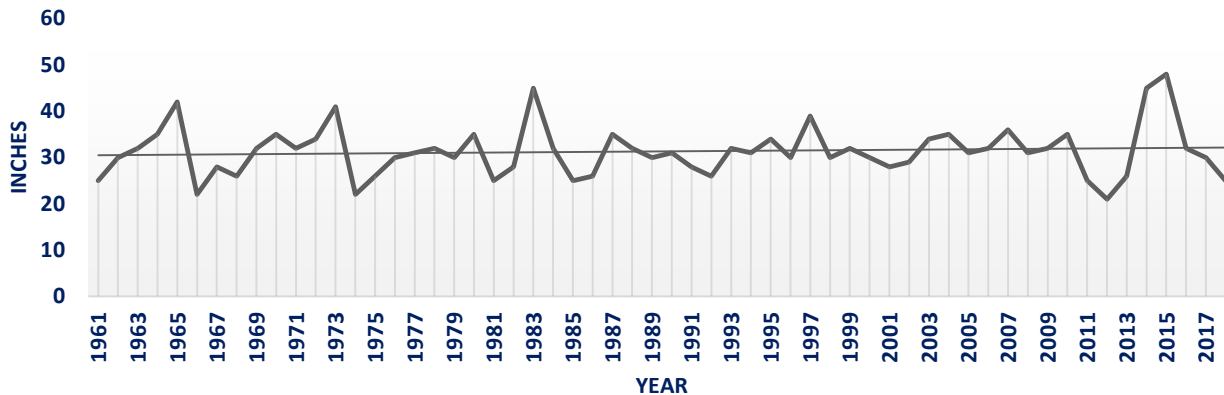
Water Holding Capacity



Percentage Organic Matter



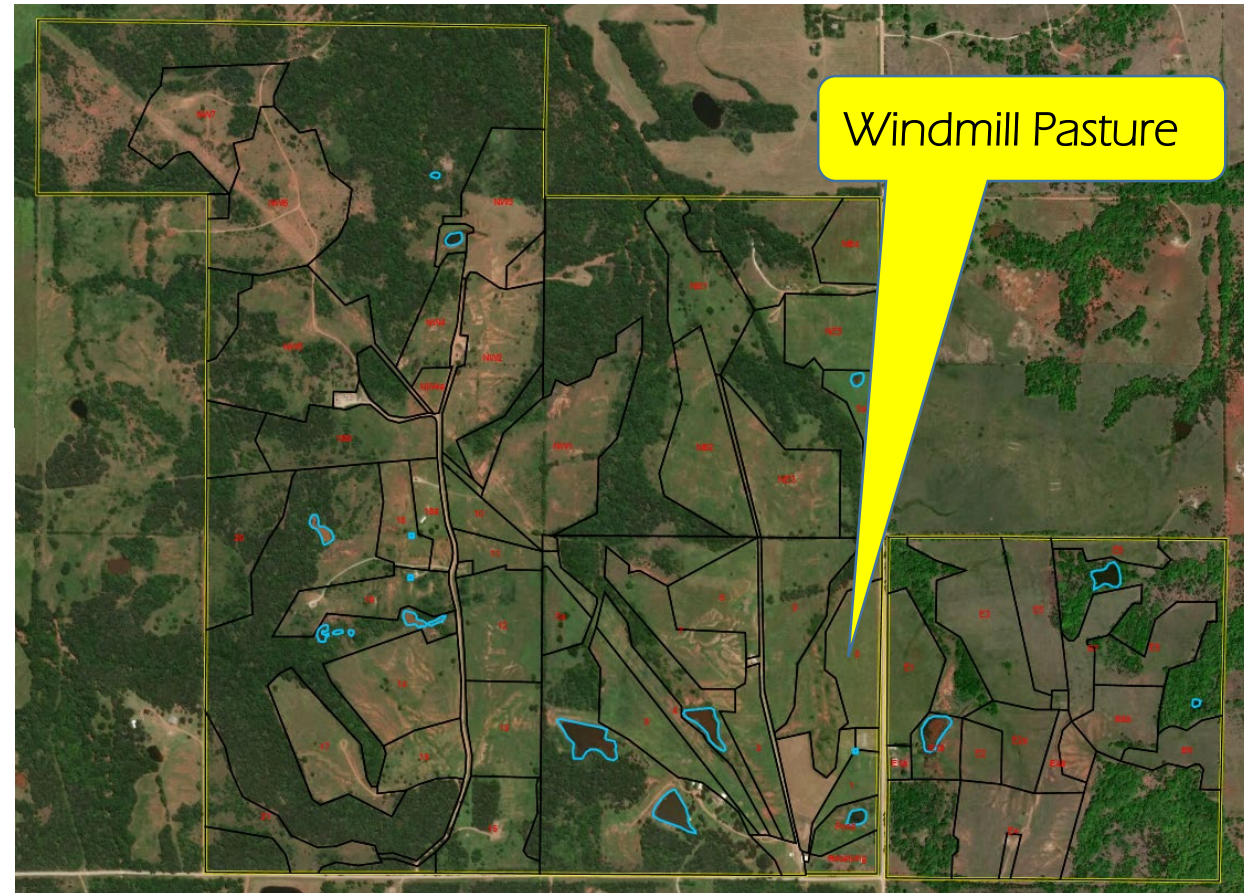
C7 Ranch- Annual Precipitation



Return On Investment Tool

Ecologic
Management \$ Spent=
89,000 gal AWHC

Economic
Management \$ Spent=
3.2 %



NRI Coffey Ranch: NLSP Model Ranch

