

Supply List

Western National Rangeland Career Development Event

**Links to purchase equipment are at the end of the document*

Section 1 – Stocking Rate and Management/Current Rangeland Issue

- Calculators
- Printed Stocking Rate and Management Recommendations problem (enough copies for all participants)
- Printed Current Rangeland Issue problem and multiple choice questions (enough copies for all participants)
- Answer key
- **Manpower – 3-5 for observing**

Section 2 – Plant Identification

- Placard **Part 1: Plant Identification**
- Landscape flags numbered 1-15 (all one color)*
- Plant mounts, potted/transplanted plants
- 1 step-in electric fence post to hold placard
- **Manpower- 2 for Plant ID**

Section 3 – Site Description

Part 3: Site Description

- Placard, **Part 3: Site Description**
 - Average annual precipitation
- 2 step-in electric fence posts for slope
- Flagging tape to mark tops of posts (especially critical in tall brush and/or steep slopes)*
- 100 foot tape (to measure, doesn't need to stay) *
- 5 gallon bucket for topsoil (to designate what to texture)
- 3 water bottles for soil
- Paper towels for cleaning hands afterward
- Garbage bag for dirty paper towels
- Soil Spade
- Yard stick (stays at site so participants can measure hole depth)
- Clinometers*
- Compasses*
- 1 shoe box sized tote (with lid) for scorecard collection
- **Manpower – 1 for Site Description**

Part 3: Biomass Estimate

- Placard, **Part 3: Biomass Estimate**
- 3, 4.8 ft² hoop (available from NRCS or make it) *

- Calculators
- Clippers
- Bags
- Scales (digital or pen)
- **Manpower – 1 for Biomass Estimates**

Section 4 – Rangeland Assessment

Part 4A: Similarity to Desired State

- Placard, **Part 4A: Similarity to Desired State**
 - Percentages of each life form for desired state (Ecological Site Description)
- 4 step-in electric fence posts
- Brightly colored stringline (25 m) *
- 1 set of landscape flags all the same color; labeled “Plot 1,” “Plot 2,” and “Plot 3”
- 3, 50 cm x 50 cm quadrat frames (we use PVC Pipe)
- Calculators
- 1 shoe box sized tote (with lid) for scorecard collection
- State and Transition Model
- **Manpower – 1 for Similarity and Desired State**

Part 4B: Browse Age Diversity

- Placard, **Part 4B: Browse Age Diversity**
- 4 step-in electric fence posts
- Brightly colored stringline (30 m) *
- Approximately 30-35 landscape flags, all the same color*
- Calculators
- **Manpower – 1 for Browse Age Diversity**

Section 5 – Rangeland Ecosystem Measurements

Part 5A: Landscape Appearance Utilization Estimate

- Placard, **Part 5A: Landscape Appearance Utilization Estimate**
- 4 step-in electric fence posts (to designate ends of utilization transect)
- 2 sets of landscape flags numbered 1-25*
- 1.92 ft² hoop (needs to stay on first set of flags for reference area) *
- Clippers to create utilization*
- Calculators
- **Manpower – 2 for Landscape Appearance**

Part 5B: Shrub Cover Estimates

- Placard, **Part 5B: Shrub Cover Estimates**
- 100 ft tape
- Pins to hold ends of tape

- 1 shoe box sized tote (with lid) for scorecard collection
- Calculators
- **Manpower – 1 for Shrub Cover Estimates**

Other Things to Take

- Shovel for transplanting plants and digging soil pit
- Scissors/Knife for cutting string if needed
- Soil Survey, if available
- Red Pens and Pencils
- Notebook for scores
- Pencils for marking keys
- Dry erase or permanent marker for writing on placards
- Stapler
- Utility knife for cutting out plant ID contest
- Clipboards
- Contest Manual
- Score Cards
- Nametags
- Folders/envelopes/totes (if raining) for tests
- Air horn (to sound rotations)
- Walkie Talkies

Equipment hyperlinks:

- [Landscape flags](#)
- [100 ft tape](#)
- [Flagging tape](#)
- [Clinometer/Compasses](#)
- [4.8 ft² hoop \(circumference of hoop = 7.77ft\)](#) and [connector](#)
- [1.92 ft² hoop \(circumference of hoop = 4.9 ft\)](#)
- [Stringline](#)
- [Clippers](#)