

## Supply List

### Western National Rangeland Career Development Event

#### 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 ft<sup>2</sup> 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
- Calculators
- 1 shoe box sized tote (with lid) for scorecard collection
- State and Transition Model
- **Manpower – 1 for Similarity and Desired State**

### Part 4B: Identify State and Transition Model state/phase

- Placard, **Part 4B: Identify State and Transition Model state/phase**
- State and Transition Model, several copies for individuals or displayed for all
- **Manpower – 1 for Identify State and Transition Model state/phase**

## Section 5 – Rangeland Ecosystem Measurements

### Part 5A: Landscape Appearance Utilization Estimate

- Placard Part 5A: Height-Weight Utilization Estimate
- 1 step-in electric fence posts to hold placard with plant(s) common and botanical name
- 20 landscape flags (all same color) numbered 1-20
- 10 yardsticks
- 10-20 Utilization gauges for student use
- Clippers to create utilization
- **Manpower – 2 for Landscape Appearance**

### Part 5B: Shrub Cover Estimates

- Placard, **Part 5B: Shrub Cover Estimates (Include transect length)**
- 50 m 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