| Score Sheet for Rating Resilience to Disturbance and Resistance to Invasive Annual Grasses in the Great Basin | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Ecological Site or Type Name:** _____<br>_____<br>**%Area:** _____ **UTMs:** _____<br>*(Use ecological site descriptions or guidelines for the MLRA with field assessment to complete score sheet.)* | | **PLOT SCORE†**<br>*(Sample two to five plots per ecological site depending on size and variability of area.)* | | | | | |
| **SITE CHARACTERISTICS** | **SCORE FOR VARIABLE** | **1** | **2** | **3** | **4** | **5** |
| **Temperature (Soil temperature regime + Species or subspecies of sagebrush)** | | | | | | | |
| Soil temperature regime | **1**=hot-mesic, **2**=warm-mesic, **3**=cool-mesic, or cool-cryic (resilience is low but resistance is high), **4**=warm-frigid, **5**=cool-frigid, **6**=warm-cryic | | | | | | |
| Species or subspecies of sagebrush | **1**=Wyoming, low, black, or Lahontan; **2**=basin, Bonneville, or xeric; **3**=mountain | | | | | | |
| **A. Temperature Score =** | | | | | | | |
| **Moisture (Precipitation + Soil texture + Soil depth)** | | | | | | | |
| Precipitation in inches (in) | **1**=<10, **2**=10-12, **3**=12-14, **4**=>14 | | | | | | |
| Soil texture | **1**=clay, sand, or silt; **2**=silty, sandy, or clay loams; **3**=loam | | | | | | |
| Soil depth in inches (in) | **0**=very shallow (<10), **1**=shallow (10-20), **3**=moderately deep to deep (>20) | | | | | | |
| **B. Moisture Score =** | | | | | | | |
| **Temperature Score (A)+ Moisture Score (B)** | | | | | | | |
| **Pre-Treatment Vegetation (PTV) (Plant groups modified by soil depth)** | | | | | | | |
| **Plant Groups**:<br>Deep-rooted perennial grasses (DRPG) (potentially dominant in shallow to deep soils >10 in)<br>Sandberg bluegrass (POSE) (potentially dominant in very shallow soils <10 in)<br>Perennial forbs (PF)<br>Invasive annual grasses (IAG) | **0**=DRPG and POSE scarce to severely depleted (DRPG <2-3/$m^2$ and/or less than 5% foliar cover)<br>**3**=DRPG on soils >10 in deep scarce, but POSE or PF are >50% foliar cover (resistance may be relatively high but resilience is low)<br>**6**=DRPG on soils >10 in deep depleted (2-3/$m^2$or about 5-10% foliar cover), and/or co-dominant with IAG; ***or*** on soils <10 in deep, POSE and PF 5-15% foliar cover and co-dominant with IAG<br>**9**=DRPG and PF dominant on soils >10 in deep; or POSE and PF dominant on soils <10 in deep. | | | | | | |
| **Pre-Treatment Vegetation (PTV) Adjusted for Treatment Severity (Estimated)** | | | | | | | |
| **C. Adjusted Pre-Treatment Vegetation** ***(Estimate fire severity by plot based on fuels and burn prescription; estimate mechanical treatment severity by plot based on woody species biomass.)*** | *Low severity prescribed fire or mechanical treatment* = PTV x 95%<br>*Moderate severity prescribed fire or mechanical treatment* = PTV x 80%<br>*High severity prescribed fire* = PTV x 20% | | | | | | |
| **Total Resilience & Resistance Score**=Temperature (A) + Moisture (B) + Adjusted PTV(C) | | | | | | | |
| **Resilience & Resistance Rating: Very low = <10, Low = 10-14, Moderate = 15-20, High = >20** | | | | | | | |

†The plot should represent a plant community and fit within one ecological site. It can vary in size but should be small enough to easily observe vegetation composition and structure by standing at one point or walking a short distance (approximately 100 ft).