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**Hayti**

**Chamberlain**

**Selby**

**Eureka**

**Reliance**

**Belvidere**

**Quinn**

**New Underwood**

**Figure 1.** Producer mob grazing sites in South Dakota.

**Figure 2.** Biomass of vegetation before and after mob grazing events.

**Figure 3**. Changes in soil temperature from mob grazing, ungrazed, and bare ground at Quinn in 2014.

**Figure 4**. Changes in soil temperature from mob grazing, ungrazed, and bare ground at Volga in 2014.

**Figure 5**. Changes in soil moisture from mob grazing, ungrazed, and bare ground at Quinn in 2014.

**Figure 6**. Changes in soil moisture from mob grazing, ungrazed, and bare ground at Volga in 2014.

**Figure 7**. 2014 Litter decomposition by site (Site x treatment interaction was not significant).

**Figure 8.** Decomposition of litter types by site.

**Figure 9**. Weed response from mob grazing, no grazing, rotation, and herbicide/mob grazing on buckbrush and wormwood sage at three locations in 2013.

**Table 1**. Comparison of mob grazing and once per week rotation.

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| Item | Mob grazing (moved 3x/day)  200,000 lbs/acre live weight | Rotation (moved once per week)  4000 lbs/acre live weight |
| Number 1000 lb heifers | 15 | 5 |
| Paddock size (acres) | 0.083 | 1.25 |
| Forage biomass (lbs/acre) | 3205 | 3260 |
| Stocking rate (AUD/acre) | 60 | 28 |
| Grazing Pressure (AUD/Ton) | 37 | 17 |
| Utilization (%) | 86 | 59 |
| Trampling (%) | 39 | 34 |
| Harvest Efficiency (%) | 47 | 24 |
| Harvest as % BW (%) | 3.0 | 2.8 |
| Lying time (minutes/day) | 549 | 716 |
| Lying bouts (number/day) | 13 | 23 |
| Number of steps (number/day) | 6137 | 4215 |
| Distance traveled (mile/day)1 | 1.52 | 1.05 |

1 Assuming that a cow step is 40 cm.