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| **Table 1 Seeding trials of potential forages**  **establishing in CRP lands** | |
| **Forage Species & seeding rate** | **Average Stand 2008 - 2011** |
| Alfalfa (Rambler) @ 5 lb/ac | 93 |
| Alfalfa (Nomad) @ 5 lb/ac | 99 |
| Alfalfa (Ladak) @ 5 lb/ac | 97 |
| Small burnet (Delar) @ 2 lb/ac | 63 |
| Russian wildrye (Bozoiski Select) @ 4 lb/ac | 91 |
| Big bluegrass (Sherman) @3 lb/ac | 95 |
| Siberian wheatgrass (Vavilov ) @ 3 lb/ac | 97 |
| Bluebunch wheatgrass (Secar) @ 3 lb/ac | 93 |
| Bluebunch wheatgrass (Whitmar) @ 3 lb/ac) | 94 |
| Crested wheatgrass (Hycrest) @ 4 lb/ac | 95 |
| Meadow brome (Fleet) @ 2 lb/ac | 82 |
| Fleet brome at 8 lb/ac | 89 |
| Forage Kochia (tilled out in 2010 due to potential spread) | 99 |
| All other species (26) grasses and legumes | < 60 |

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| **Table 2 Pearson Farm Forage Cover Analysis - 2011 and 2012** | | | | |
| **Year** | **2011** | **2012** | **2011** | **2012** |
| **Forage type** | **Transect 1 (%)** | **Transect 1 (%)** | **Transect 2 (%)** | **Transect 2 (%)** |
| Reed canary grass - *Phalaris arundinacea*) | 20 | 12 | 29 | 25 |
| Common tansy (*Tanacetum vulgare*) | 51 | 27 | 25 | 19 |
| Bareground | 0 | 0 | 3 | 0 |
| Litter | 23 | 56 | 20 | 35 |
| Other weeds (comprised of spotted knapweed (*Centaurea maculosa*) and Ventenata (*Ventenata dubia*) | 0 | 0 | 23 | 21 |
| Scouring rush (*Equisetum hyemale*) | 6 | 5 | 0 | 0 |

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| **Table 3 Garrett Farm Forage Cover Analysis - 2011 and 2012** | | | | | | |
|  | **2011** | **2012** | **2011** | **2012** | **2011** | **2012** |
| **Forage type** | **Transect 1- pasture 3**  **(%)** | **Transect 1- pasture 3**  **(%)** | **Transect 2- Pasture 2**  **(%)** | **Transect 2- Pasture 2**  **(%)** | **Transect 3- Pasture 1**  **(%)** | **Transect 3- Pasture 1**  **(%)** |
| Perennial grass 1 | 61 | 66 | 24 | 40 | 35 | 48 |
| Bareground | 19 | 2 | 28 | 3 | 31 | 13 |
| Yarrow (*Achillea millefolium*) | 0 | 0 | 0 | 8 | 0 | 0 |
| Weeds 2 | 20 | 32 | 48 | 49 | 34 | 39 |

1 Secar bluebunch wheatgrass (*Pseudoregneria spicata*) and Sherman big bluegrass (*Poa secunda*)

2 Small annual grasses and forbs – primarily downy brome (*Bromus tectorum*) and tumble mustard (*Sisymbrium altissimum*)

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| **Table 4 Dalles Mountain Ranch Forage Cover Analysis, 2009-2012** | | | | | |
|  | **Year**  **Vegetative Cover** | 2009  (%) | 2010  (%) | 2011  (%) | 2012  (%) |
| Transect 1 (Pasture 1) | **perennial grass** | 48 | 39 | 61 | 55 |
|  | **annual grass** | 31 | 29 | 20 | 13 |
|  | **perennial forbs** | 7 | 13 | 13 | 17 |
|  | **annual forbs** | 1 | 1 | 2 | 3 |
|  | **litter** | 13 | 16 | 3 | 12 |
|  | **bareground** | 0 | 2 | 1 | 0 |
|  |  |  |  |  |  |
| Transect 2 (Pasture 3) | **perennial grass** | 36 | 35 | 36 | 35 |
|  | **annual grass** | 51 | 55 | 50 | 54 |
|  | **perennial forbs** | 3 | 5 | 8 | 6 |
|  | **annual forbs** | 2 | 0 | 1 | 1 |
|  | **litter** | 6 | 1 | 0 | 0 |
|  | **bareground** | 0 | 4 | 5 | 4 |

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| **Table 5** | **Feed Analysis: Secar Bluebunch Wheatgrass – Averages 2010 and 2012** | | |
|  | | **Grazed – Pasture 1** | **Ungrazed Control** |
| **Laboratory Values** | | **100% Dry Matter** | **100% Dry Matter** |
| Crude Protein | | 6.8 | 5.3 |
| Acid Detergent Fiber (ADF) | | 50.1 | 53.4 |
| Neutral Detergent Fiber (NDF) | | 66 | 68.9 |
|  | |  |  |
| **Estimated Values** | |  |  |
| Relative Feed Value | | 72 | 65 |
| TDN | | 45.6 | 42.3 |
| Digestible Protein | | 2.0 | 1.0 |
| Digestible Dry Matter (DDM) | | 49.8 | 47.4 |
| Dry Matter Intake (DMI) | | 1.82 | 1.7 |
| Digestible energy (Mcal/kg) | | 2.02 | 1.85 |
| Metabolizable energy (Mcal/kg) | | 1.59 | 1.43 |
|  | |  |  |
| **Other Analysis** | |  |  |
| Phosphorus (%) | | 0.16 | 0.12 |
| Calcium (%) | | 0.80 | 0.57 |
| Magnesium (%) | | 0.23 | 0.25 |
| Nitrate nitrogen (ppm) | | 0.08 | 0.06 |