

Irrigated Alfalfa Variety Trial, University of Wyoming Research and Extension Center (SAREC), Lingle, WY. (Established 2007)

| Variety | | 06/23/10 | 08/06/10 | 10/05/10 | 2010 total | 2009 Total | 2008 total | 3-yr Total | 3-yr |
|-------------|-----------------------|----------|----------|----------|------------|------------|------------|------------|--------|
| Name | Source | 1 st | 2 nd | 3 rd | DM Yield | DM Yield | DM Yield | DM Yield | % of |
| | | Cutting | Cutting | Cutting | Ton/A | Ton/A | Ton/A | Ton/A | Ranger |
| MagnumIV | Dairyland | 1.17 | 1.85 | 1.43 | 4.45 | 4.38 | 4.73 | 13.57 | 106 |
| Ranger | Public | 0.99 | 1.68 | 1.17 | 3.84 | 4.33 | 4.63 | 12.80 | 100 |
| Lander | Allied Seed | 0.97 | 1.74 | 1.34 | 4.06 | 4.12 | 4.67 | 12.84 | 100 |
| PGI459 | Producer's Choice | 1.24 | 1.81 | 1.60 | 4.65 | 3.96 | 4.11 | 12.72 | 99 |
| Lariat | JR Simplot Co | 1.02 | 1.76 | 1.37 | 4.15 | 4.34 | 4.07 | 12.56 | 98 |
| Medalist | Intermountain Farmers | 1.19 | 1.60 | 1.41 | 4.19 | 3.91 | 4.30 | 12.41 | 97 |
| Integra8300 | Wilbur-Ellis Co | 0.96 | 1.69 | 1.12 | 3.77 | 4.27 | 4.27 | 12.30 | 96 |
| Integra8400 | Wilbur-Ellis Co | 1.01 | 1.97 | 1.50 | 4.48 | 3.54 | 4.06 | 12.08 | 94 |
| Robin | Blue River Organic | 0.97 | 1.43 | 1.41 | 3.81 | 3.81 | 4.36 | 11.97 | 94 |
| Masterpiece | JR Simplot Co | 1.00 | 1.63 | 1.43 | 4.06 | 3.58 | 4.27 | 11.90 | 93 |
| 407TQ | America's Alfalfa | 1.26 | 1.73 | 1.18 | 4.17 | 3.61 | 4.10 | 11.88 | 93 |
| 444NT | America's Alfalfa | 1.13 | 1.48 | 1.11 | 3.73 | 3.65 | 4.18 | 11.56 | 90 |
| Vernal | Public | 1.02 | 1.37 | 1.46 | 3.85 | 3.76 | 3.91 | 11.53 | 90 |
| Impressive | UAP | 1.07 | 1.27 | 1.10 | 3.44 | 4.14 | 3.90 | 11.48 | 90 |
| ArcherIII | America's Alfalfa | 0.91 | 1.38 | 1.11 | 3.40 | 3.90 | 3.92 | 11.22 | 88 |
| Average | | 1.06 | 1.63 | 1.32 | 4.00 | 3.95 | 4.23 | 12.19 | |
| LSD (0.05) | | 0.65 | 0.73 | 0.59 | 1.38 | 1.42 | 1.20 | 1.56 | |
| CV(%) | | 14.53 | 12.60 | 9.56 | 9.70 | 10.60 | 12.52 | 8.35 | |

Dried for 48 hours at 60 degrees C. To convert dry ton per acre to hay at 12% moisture, multiply by 1.136.

Establishment Procedure: Seeded on 5-23-07 @ 18 lbs pure live seed per acre after 180N-40P-0K-20S were soil incorporated.

No herbicides were applied and mowing was used the establishment year for weed control.

Trial is sprinkler irrigated using a lateral move sprinkler.

Elevation: 4140 ft above sea level; 176 days above 28 degrees F.

Soil Type: Silt Loam

Exp Design : Completely randomized, Four Replications, Yields differing by more than the LSD are different at odds of at least 19 to 1.

An LSD designation of N.S. indicates yield differences were not significant.

2008 management: Plots were harvested three times, Precipitation received 9.64 inches,

Irrigated 10 additional inches through out growing season for a total of 19.64 inches of water.

2009 management: Plots were fertilized with a blend of 30-52-0-20s/A in the spring. Irrigation consisted of 9.5 " and precipitation was 13.3 " for a total of 22.8 " of water for the entire growing season. Trial was harvested three times.

2010 management: Plots were fertilized with a blend of 11-52-0-10s/A in the spring. Irrigation consisted of 10.0 " and precipitation was 11.47 " for a total of 21.47 " of water for the entire growing season. Trial was harvested three times.

Cooperators: Randall Violet (307)754-2223 & Robert Baumgartner (307)837-2000.