

07-09-01



2006 WSHGA, CBC, and WSU ALFALFA VARIETY YIELD TRIALS (Revised September 2007)

Washington State University Extension
1016 N 4th, Pasco, WA 99301
509-545-3511 · Fax: 509-545-2130 · TDD 1-800-833-6388
And
Courthouse, PO Box 37
Ephrata, WA 98823
509-754-2011

Columbia Basin College
2600 North 20th Ave, Pasco, WA 99301
509-547-0511. Fax: 509-546-0401

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Washington State Hay Growers Association, Columbia Basin College, and Washington State University Alfalfa Variety Trials

William T. W. Woodward, John Kugler, Thomas Cline¹

Six alfalfa trials were harvested for yield in irrigated central Washington State in 2006. The Washington State Hay Growers Association (WSHGA) with cooperation by Columbia Basin College (CBC) and Washington State University (WSU) conducted three trials near Othello, WA and three trials near Pasco, WA.

The Othello site is located on the WSU Othello research farm 6 miles ESE of Othello, WA at Lat: 46.7 Lng: 119.0 and at an elevation of 1154 feet. The Pasco sites are located on Selph Landing Road about 8 miles North of Pasco, WA and CBC at the north edge of Pasco, with the CBC site at Lat: 46.2 Lng: 119.1 and an elevation of 339 feet.

The soils were a Shano silt loam (coarse-silty, mixed-mesic Xerollic Camborthids) at Othello and sand to loamy sand (series undetermined) at Pasco. All trials were sprinkler irrigated throughout the April-October growing season. The frost-free (32°F) period extended 180 days from 13 May to 22 October at Othello, and 162 days from 17 April to 10 October at Pasco. Accumulated Base 45 growing degree days through 11-16-2006 was 3454 and 4572 for Othello and Pasco, respectively.

Each trial was arranged in a randomized complete block (RCB) design with 4 replications. All were seeded at about 15lbs/A in rows spaced 6 inches apart with a 1-foot inter-plot separation. Plot size is 4 x 15 feet (Othello) and 4 X 15 feet (Pasco). Some trials contain experimental entries that are not available for commercial planting.

Forage yields for each harvest in 2006, the total yield in 2006, and the total for all years of the trials to date are reported in Tables 4 through 9. Yields were determined from whole plot fresh weights converted to a dry matter basis using a constant dry matter fraction.

Tables 1 and 2 are a summary of yields for alfalfa varieties currently on the market for the Pasco and Othello location. Yields are presented in percent of mean of the test for ease of comparison. Table 3 provides information on dormancy, pest resistance, and seed marketers for the same varieties.

¹ Dean of Agriculture Education, Research & Development – CBC Pasco, Extension Agronomist – WSU Ephrata, Agricultural Research Technician – WSU Prosser, respectively.

Table 1: 2006 Summary of Alfalfa Yield Trials -- Pasco, Washington (varieties on the market)

| Entry | Pasco, Washington Seeded Sept. 4, 1997 | | | | Pasco, Washington Seeded September, 1998 | | | | Pasco, Washington Seeded August, 1999 | | | | Pasco, Washington Seeded August, 2000 | | | | Pasco, Washington Seeded August, 2001 | | | | Pasco, Washington Seeded August, 2002 | | | | Pasco, Washington Seeded August, 2003 | | | | | | |
|--------------------------------|--|--------|--------|--------|--|--------|--------|--------|---------------------------------------|--------|--------|--------|---------------------------------------|--------|--------|--------|---------------------------------------|--------|--------|--------|---------------------------------------|--------|--------|--------|---------------------------------------|-------|-------|-------|-------|-------|-------|
| | 1998 | 1999 | 2000 | 3 Yr. | 1999 | 2000 | 2001 | 3 Yr. | 2000 | 2001 | 2002 | 3 Yr. | 2001 | 2002 | 2003 | 3 Yr. | 2002 | 2003 | 2004 | 3 Yr. | 2003 | 2004 | 2005 | 3 Yr. | 2004 | 2005 | 2006 | 3 Yr. | | | |
| Yield in % mean of test | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 512 | | | | | | | | | | | | | | | | 99.3% | 100.1% | 105.5% | 101.3% | 106.1% | 104.9% | 108.7% | 106.3% | | | | | 98.1% | 97.5% | 94.0% | 96.5% |
| 6420 | 101.9% | 97.2% | 91.1% | 97.0% | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9429 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 Star | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 53V08 | 101.0% | 106.5% | 112.2% | 106.3% | 102.5% | 103.3% | 109.2% | 104.8% | 103.5% | 107.2% | 111.3% | 106.9% | 103.4% | 101.0% | 110.6% | 104.7% | 94.3% | 103.5% | 104.9% | 100.7% | | | | | | | | | | | |
| 54Q25 | | | | | | | | | 101.7% | 110.8% | 116.3% | 108.8% | | | | | | | | | | | | | | | | | | | |
| 54Q53 | 99.0% | 104.7% | 111.1% | 104.7% | 105.1% | 107.4% | 106.1% | 106.3% | | | | | | | | | | | | | | | | | | | | | | | |
| 55H05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Abundance | 111.5% | 98.1% | 97.8% | 102.7% | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ameristand 403T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Archer II | | | | | 101.7% | 102.5% | 101.0% | 101.8% | | | | | | | | | | | | | | | | | | | | | | | |
| Baralfa 53 HR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Boulder | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bullseye | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cimarron SR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DKA42-15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DKA50-18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dynamic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Expedition | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Innovator+Z | | | | | 99.2% | 99.2% | 103.1% | 100.3% | | | | | | | | | | | | | | | | | | | | | | | |
| LegenDairy 5.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lobo | | | | | 101.7% | 96.7% | 94.9% | 98.0% | 99.1% | 96.4% | 102.5% | 99.0% | 99.5% | 99.9% | 101.9% | 100.4% | | | | | | | | | | | | | | | |
| Magnum IV | 95.2% | 97.2% | 91.1% | 94.7% | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Magnum V | | | | | 100.8% | 95.9% | 90.8% | 96.2% | | | | | 100.4% | 101.3% | 93.6% | 98.7% | | | | | | | | | | | | | | | |
| Masterpiece | | | | | | | | | 105.2% | 113.5% | 122.5% | 112.7% | | | | | | | | | | | | | | | | | | | |
| Millennia | | | | | 103.4% | 103.3% | 108.2% | 104.8% | | | | | | | | | | | | | | | | | | | | | | | |
| Mountaineer 2.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perfect | | | | | 104.2% | 105.8% | 116.3% | 108.3% | | | | | | | | | | | | | | | | | | | | | | | |
| Plumas | | | | | | | | | 103.5% | 108.1% | 115.0% | 108.2% | 103.4% | 102.4% | 109.4% | 104.8% | 103.3% | 105.1% | 112.8% | 106.5% | 103.9% | 101.4% | 99.2% | 102.1% | 104.1% | 98.7% | 92.7% | 98.3% | | | |
| Radiant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rebound 4.2 | | | | | 101.7% | 109.9% | 116.3% | 108.9% | | | | | | | | | | | | | | | | | | | | | | | |
| Recover | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Reward II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Robust T&N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Samurai | | | | | | | | | 92.2% | 98.2% | 106.3% | 98.0% | | | | | | | | | | | | | | | | | | | |
| Select | | | | | 104.2% | 105.8% | 105.1% | 105.1% | | | | | | | | | | | | | | | | | | | | | | | |
| Stellar | 101.0% | 104.7% | 110.0% | 105.0% | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SW 435 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tango | | | | | 101.7% | 101.7% | 101.0% | 101.5% | 103.5% | 100.9% | 102.5% | 102.3% | | | | | | | | | | | | | | | | | | | |
| Vernal | 87.5% | 81.3% | 82.2% | 83.7% | 87.3% | 85.1% | 79.6% | 84.3% | 87.8% | 83.8% | 81.3% | 84.6% | 89.9% | 90.9% | 78.8% | 87.0% | 91.3% | 79.7% | 64.5% | 79.7% | 87.1% | 73.2% | 75.5% | 79.8% | 85.3% | 92.1% | 88.7% | 88.7% | | | |
| Vernema | 98.1% | 98.1% | 92.2% | 96.4% | 99.2% | 91.7% | 82.7% | 91.7% | 102.6% | 91.0% | 88.8% | 94.8% | 94.5% | 92.0% | 87.5% | 91.7% | 100.5% | 90.4% | 76.8% | 90.3% | | | | | | | | | | | |
| WinterGold | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WL 327 | | | | | | | | | 102.6% | 104.5% | 105.0% | 103.9% | | | | | | | | | | | | | | | | | | | |
| WL 342 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WL325HQ | 104.8% | 105.6% | 107.8% | 106.0% | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| XTRA-3 | | | | | | | | | | | | | 104.2% | 104.8% | 107.2% | 105.3% | | | | | | | | | | | | | | | |
| AV-TIAC | 10.4 | 10.7 | 9.0 | 10.0 | 11.8 | 12.1 | 9.8 | 11.2 | 11.5 | 11.1 | 8.0 | 10.2 | 10.4 | 8.7 | 7.7 | 9.0 | 8.1 | 9.3 | 8.7 | 8.7 | 9.9 | 8.1 | 4.6 | 7.5 | 6.8 | 6.6 | 7.6 | 7.0 | | | |
| LSD(0.05) | 7.7% | 5.6% | 8.9% | 6.3% | 3.4% | 5.8% | 8.2% | 2.7% | 6.1% | 6.3% | 6.3% | 4.6% | 9.15% | 7.7% | 7.2% | 5.9% | 8.59% | 7.8% | 7.18% | 7.18% | 5.50% | 8.03% | 6.51% | 5.18% | NS | NS | 9.60% | 5.75% | | | |
| CV(%) | 5.5 | 3.7 | 6.3 | 4.7 | 2.5 | 4 | 5.7 | 2.4 | 4.5 | 4.5 | 4.8 | 3.3 | 6.4 | 5.4 | 5.0 | 4.1 | 6.3 | 5.4 | 5.0 | 5.0 | 3.8 | 5.6 | 4.5 | 3.6 | 8.1 | 6.0 | 6.7 | 4.0 | | | |

Table 2: 2006 Summary of Alfalfa Yield Trials -- Othello, Washington (varieties on the market)

| Entry | Othello, Washington Seeded August 22, 1997 | | | | Othello, Washington Seeded March 31, 1999 | | | | Othello, Washington Seeded April, 2001 | | | | Othello, Washington Seeded August, 2001 | | | | Othello, Washington Seeded August, 2002 | | | | Othello, Washington Seeded August, 2003 | | | | |
|-----------------|---|--------|--------|--------|--|--------|--------|--------|---|--------|--------|--------|--|--------|--------|--------|--|--------|--------|--------|--|--------|--------|--------|--------|
| | 1998 | 1999 | 2000 | 3 Yr. | 1999 | 2000 | 2001 | 3 Yr. | 2001 | 2002 | 2003 | 3 Yr. | 2002 | 2003 | 2004 | 3 Yr. | 2003 | 2004 | 2005 | 3 Yr. | 2004 | 2005 | 2006 | 3 Yr. | |
| | Yield in % mean of test | | | | | | | | | | | | | | | | | | | | | | | | |
| 512 | | | | | | | | | 98.5% | 104.3% | 107.5% | 105.2% | 101.0% | 101.9% | 106.9% | 102.6% | | | | | 93.5% | 99.1% | 99.2% | 97.3% | |
| 6420 | 107.1% | 109.0% | 104.2% | 106.9% | | | | | | | | | | | | | | | | | | | | | |
| 9429 | | | | | | | | | | | | | | | | | 101.3% | 96.3% | 93.7% | 97.5% | 97.4% | 89.3% | 90.8% | 92.4% | |
| 53V08 | 103.5% | 110.3% | 108.3% | 107.3% | 95.2% | 109.1% | 112.9% | 106.7% | 101.5% | 101.1% | 106.2% | 102.8% | 102.2% | 105.1% | 112.9% | 105.7% | | | | | | | | | |
| 54Q25 | | | | | | | | | | | | | 104.3% | 106.2% | 107.7% | 105.7% | | | | | | | | | |
| 55H05 | | | | | | | | | | | | | | | | | 102.0% | 110.2% | 101.0% | 104.0% | | | | | |
| A30-06 | | | | | | | | | | | | | 98.6% | 97.7% | 90.7% | 96.3% | | | | | | | | | |
| Abundance | 104.7% | 109.0% | 105.6% | 106.4% | | | | | | | | | | | | | | | | | | | | | |
| Alliant | | | | | | | | | | | | | 105.2% | 100.2% | 103.5% | 102.8% | | | | | | | | | |
| Ameristand 403T | | | | | | | | | | | | | 94.9% | 95.8% | 95.8% | 95.3% | | | | | 98.5% | 95.7% | 96.4% | 96.8% | |
| Archer II | | | | | 101.6% | 105.7% | 110.6% | 106.3% | | | | | | | | | | | | | | 99.9% | 103.5% | 96.0% | 100.0% |
| Baralfa 321Q | | | | | | | | | | | | | | | | | | | | | 102.2% | 98.3% | 97.9% | 99.4% | |
| Baralfa 42 IQ | | | | | | | | | 96.2% | 96.3% | 97.5% | 96.7% | | | | | | | | | | | | | |
| Baralfa 53HR | | | | | | | | | | | | | | | | | | | | | 101.0% | 95.4% | 94.7% | 97.0% | |
| Baralfa 54 | | | | | | | | | | | | | | | | | | | | | 92.9% | 91.8% | 86.4% | 90.4% | |
| Boulder | | | | | | | | | | | | | | | | | | | | | 107.0% | 106.3% | 107.6% | 106.9% | |
| Cimarron SR | | | | | | | | | 100.0% | 101.1% | 98.2% | 99.3% | | | | | | | | | | | | | |
| Dakota | | | | | | | | | 100.0% | 96.8% | 94.8% | 97.4% | | | | | | | | | | | | | |
| DK134 | | | | | 104.8% | 100.0% | 96.5% | 100.0% | | | | | | | | | | | | | | | | | |
| DKA33-16 | | | | | | | | | | | | | | | | | | | | | | | | | |
| DKA42-15 | | | | | | | | | | | | | 103.7% | 113.1% | 113.8% | 108.5% | | | | | 108.7% | 106.9% | 110.8% | 108.7% | |
| Dynamic | | | | | | | | | | | | | | | | | | | | 107.0% | 101.4% | 94.9% | 101.6% | | |
| Emperor | | | | | 96.8% | 96.6% | 96.5% | 96.6% | | | | | | | | | | | | | | | | | |
| Evermore | | | | | | | | | | | | | | | | | | | | 108.2% | 106.3% | 112.3% | 108.9% | | |
| Forecast 1001 | | | | | 103.2% | 103.4% | 105.9% | 104.2% | 104.4% | 104.3% | 102.6% | 103.3% | | | | | | | | | | | | | |
| Forecast 3001 | | | | | | | | | 100.0% | 100.0% | 104.1% | 101.4% | | | | | | | | | | | | | |
| HybriForce 400 | | | | | | | | | | | | | | | | | | | | | 89.0% | 96.3% | 92.3% | 92.7% | |
| HybriForce 420 | | | | | | | | | | | | | | | | | | | | | 96.4% | 99.1% | 100.3% | 98.6% | |
| Innovator+Z | | | | | 96.8% | 97.7% | 91.8% | 95.3% | | | | | | | | | | | | | | | | | |
| LegenDairy 5.0 | | | | | | | | | | | | | | | | | | | | | | 111.1% | 107.7% | 111.3% | 109.9% |
| Magna 601 | | | | | | | | | | | | | 98.1% | 103.4% | 109.9% | 102.7% | | | | | | | | | |
| Magnum V | | | | | 101.6% | 102.3% | 101.2% | 101.7% | 104.4% | 100.0% | 102.4% | 102.0% | 103.2% | 105.4% | 108.6% | 105.2% | | | | | | | | | |
| Millennia | | | | | 100.0% | 100.0% | 102.4% | 100.8% | | | | | | | | | | | | | | | | | |
| Mountaineer 2.0 | | | | | | | | | | | | | | | | | | | | | 100.4% | 106.3% | 110.1% | 105.6% | |
| Perfect | | | | | 98.4% | 102.3% | 100.0% | 100.4% | 102.7% | 99.8% | 102.8% | 101.6% | | | | | | | | | | | | | |
| Phirst | | | | | | | | | | | | | | | | | | | | | 93.7% | 99.0% | 105.3% | 99.3% | |
| Plumas | | | | | | | | | 97.1% | 100.0% | 99.6% | 98.6% | 97.6% | 94.9% | 93.3% | 95.5% | | | | | 102.3% | 97.8% | 95.7% | 98.6% | |
| Rebel | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rebound 4.2 | | | | | 106.3% | 103.4% | 105.9% | 105.0% | | | | | | | | | | | | | | | | | |
| Reward II | | | | | | | | | | | | | | | | | | | | 97.5% | 91.2% | 95.2% | 95.0% | | |
| Robust T & N | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ruccus | | | | | | | | | | | | | 101.3% | 102.0% | 107.1% | 102.8% | | | | | | 99.3% | 105.7% | 104.7% | 103.3% |
| Select | | | | | 104.8% | 102.3% | 102.4% | 102.9% | | | | | | | | | | | | | | | | | |
| Somersset | | | | | | | | | | | | | | | | | | | | | 103.4% | 96.9% | 100.6% | 100.1% | |
| Stellar | 92.9% | 105.1% | 105.6% | 100.9% | | | | | | | | | | | | | | | | | | | | | |
| Tango | | | | | | | | | | | | | 104.6% | 97.0% | 102.6% | 101.2% | | | | | | | | | |
| Vernal | 87.1% | 89.7% | 91.7% | 89.4% | 95.2% | 93.2% | 89.4% | 92.3% | 86.8% | 88.3% | 82.2% | 85.5% | 85.8% | 87.8% | 80.4% | 85.2% | 82.2% | 79.7% | 80.4% | 80.9% | 87.3% | 84.1% | 67.9% | 80.0% | |
| Vernema | 97.6% | 92.3% | 93.1% | 94.5% | 98.4% | 100.0% | 98.8% | 99.1% | 100.0% | 101.1% | 93.8% | 98.4% | 96.6% | 93.6% | 89.5% | 93.7% | | | | | | | | | |
| Vitro | | | | | | | | | | | | | | | | | | | | | 104.5% | 100.0% | 97.0% | 100.9% | |
| WinterGold | | | | | | | | | 102.9% | 102.1% | 100.8% | 101.6% | | | | | | | | | | | | | |
| WL 319HQ | | | | | | | | | | | | | | | | | | | | 107.2% | 102.9% | 103.8% | 104.9% | | |
| WL 327 | | | | | | | | | | | | | 101.6% | 100.6% | 98.1% | 100.3% | | | | | | | | | |
| WL 342 | | | | | | | | | | | | | 108.9% | 106.7% | 107.0% | 107.5% | | | | | | | | | |
| WL 357HQ | | | | | | | | | | | | | | | | | | | | | | | | | |
| WL325HQ | 97.6% | 105.1% | 108.3% | 103.4% | | | | | | | | | | | | | | | | | 108.2% | 102.2% | 104.3% | 104.8% | |
| AV-TIAC | 8.5 | 7.8 | 7.2 | 7.8 | 6.3 | 8.8 | 8.5 | 7.9 | 6.8 | 9.4 | 8.6 | 8.3 | 8.1 | 7.7 | 4.9 | 6.9 | 9.0 | 6.3 | 7.1 | 7.5 | 6.8 | 7.6 | 6.7 | 7.0 | |
| LSD(0.05) | 8.2% | 5.1% | 8.3% | 8.9% | 6.3% | 4.5% | 9.4% | 6.8% | 8.8% | 5.3% | 7.8% | 3.4% | 7.7% | 7.9% | 15.0% | 8.0% | 6.3% | 11.0% | 6.2% | 6.1% | 9.3% | 8.3% | 8.6% | 7.2% | |
| CV(%) | 5.9 | 3.7 | 5.4 | 3.4 | 4.4 | 3.2 | 6.5 | 4.7 | 5.9 | 3.8 | 5.4 | 3.6 | 5.4 | 5.6 | 10.4 | 5.6 | 4.4 | 7.7 | 4.4 | 4.2 | 6.6 | 5.9 | 6.2 | 5.1 | |

**Table 3: 2006 Fall Dormancy & Pest Resistance Ratings for Alfalfa Varieties
Commerically Available in Washington**

| Variety | Contact for Marketing Informator | FD | BW | VW | FW | AN | PRR | SAA | PA | BAA | SN | APH | SRKN | NRKN |
|-----------------|---------------------------------------|----|----|----|----|----|-----|-----|----|-----|----|-----|------|------|
| Dynamic | Grassland Central/Grassland West | 2 | HR | HR | HR | HR | HR | | R | | | HR | | R |
| Vernal | Public | 2 | R | S | MR | S | S | | | | SN | S | | MR |
| 53V08 | Pioneer Hi-Bred International, Inc. | 3 | HR | HR | HR | HR | HR | R | HR | MR | HR | LR | | HR |
| A30-06 | PGI Alfalfa, Inc. | 3 | HR | HR | HR | HR | HR | | R | | | HR | | |
| Blazer XL | CROPLAN GENETICS | 3 | R | R | HR | HR | HR | HR | R | | R | R | | |
| Class | Union Seed Co. | 3 | HR | R | R | HR | HR | R | R | MR | R | | | |
| DKA33-16 | Monsanto | 3 | HR | HR | HR | HR | HR | R | R | | | HR | | R |
| Forecast 3001 | Dairyland Seed Co., Inc. | 3 | HR | R | HR | R | HR | | R | | R | R | | R |
| Innovator+Z | America's Alfalfa | 3 | HR | HR | HR | HR | HR | MR | R | S | R | R | | |
| LeafMaster | Union Seed Co. | 3 | R | HR | HR | HR | HR | R | R | | HR | MR | | MR |
| LegenDairy 5.0 | CROPLAN GENETICS | 3 | HR | HR | HR | HR | HR | R | R | | MR | HR | | R |
| MP2000 | CROPLAN GENETICS | 3 | HR | R | HR | HR | HR | R | HR | | R | HR | | R |
| Rainier | Syngenta | 3 | HR | R | HR | HR | HR | HR | HR | | R | HR | | R |
| Somerset | Syngenta | 3 | HR | HR | HR | HR | HR | R | | | R | HR | | |
| Vitro | Eureka Seeds, Inc. | 3 | HR | HR | HR | HR | HR | R | R | | R | R | | |
| WL 319HQ | W-L Research, Inc. | 3 | HR | HR | HR | HR | HR | R | HR | | MR | HR | | |
| WL 325HQ | W-L Research, Inc. | 3 | HR | R | HR | HR | HR | R | R | MR | R | R | | |
| 6420 | Garst Seed Co. | 4 | HR | R | HR | R | HR | R | R | | R | R | | HR |
| 9429 | Eureka Seeds, Inc. | 4 | HR | R | HR | HR | HR | R | R | HR | R | HR | | |
| 54Q25 | Pioneer Hi-Bred International, Inc. | 4 | HR | HR | HR | HR | HR | R | R | | HR | R | | HR |
| Abundance | BioPlantResearch/Ziller Seed Co. | 4 | HR | MR | HR | R | HR | R | R | MR | | R | | |
| Affinity+Z | America's Alfalfa | 4 | HR | HR | HR | HR | HR | | R | | R | R | | |
| AmeriStand 403T | America's Alfalfa | 4 | HR | HR | HR | HR | HR | MR | R | | MR | HR | | |
| Baralfa 42 IQ | Barenbrug USA | 4 | HR | HR | HR | HR | HR | HR | R | | | HR | | |
| Boulder | Syngenta | 4 | HR | HR | HR | HR | HR | HR | HR | | HR | R | | R |
| Bullseye | Target Seed, LLC | 4 | HR | HR | HR | HR | HR | MR | LR | MR | R | MR | | HR |
| Cimarron SR | Great Plains Research Co., Inc. | 4 | HR | HR | HR | HR | HR | R | HR | MR | R | MR | R | |
| Dakota | Grassland Central/Northstar Seed Ltd. | 4 | R | MR | R | MR | HR | | R | | MR | | MR | MR |
| DKA42-15 | Monsanto | 4 | HR | HR | HR | HR | HR | R | HR | | R | HR | | |
| Emperor | ABI Alfalfa, Inc. | 4 | HR | HR | HR | HR | HR | MR | R | | | HR | | |
| Forecast 1001 | Dairyland Seed Co., Inc. | 4 | R | HR | R | R | R | MR | R | MR | R | R | | HR |
| Key | Great Plains Research Co., Inc. | 4 | HR | HR | HR | HR | HR | HR | HR | MR | MR | MR | MR | |
| Magnum III | Dairyland Seed Co., Inc. | 4 | R | MR | R | MR | R | MR | R | MR | MR | LR | | |
| Magnum V | Dairyland Seed Co., Inc. | 4 | HR | R | HR | R | HR | R | R | MR | R | MR | | MR |
| Masterpiece | J. R. Simplot Company | 4 | HR | R | HR | HR | HR | HR | | R | HR | R | | R |
| Millennia | Union Seed Co. | 4 | HR | R | HR | HR | HR | R | R | | HR | R | | MR |
| Perfect | Grassland Central/Grassland West | 4 | HR | HR | HR | HR | HR | R | R | | R | HR | | |
| Phirst | Cascade Hybrid/Proseed Inc. | 4 | HR | R | HR | HR | HR | R | R | | R | R | | HR |
| Plumas | Eureka Seeds, Inc. | 4 | HR | R | HR | HR | HR | R | R | | HR | R | | MR |
| Radiant | Ampac Seed Co. | 4 | HR | HR | HR | HR | HR | R | R | | R | HR | | |
| Rebound 4.2 | CROPLAN GENETICS | 4 | HR | HR | HR | HR | HR | R | R | | MR | HR | | |
| Rebel | Target Seed, LLC | 4 | HR | HR | HR | HR | HR | | HR | MR | | HR | | |
| Reward II | PGI Alfalfa, Inc. | 4 | HR | R | HR | R | HR | R | R | R | R | R | | HR |
| Robust T&N | Gooding Seed Co., Inc. | 4 | R | HR | HR | HR | HR | R | HR | MR | HR | MR | | R |
| Select | Union Seed Co. | 4 | HR | R | HR | HR | HR | R | R | MR | HR | R | | R |
| SW 435 | S&W Seed Co. | 4 | HR | R | HR | HR | HR | R | HR | | HR | HR | | R |
| Vernema | Public | 4 | MR | MR | | LR | LR | MR | | | HR | | | |
| WinterGold | L&H Seeds/Renk Seed/Tri-West Seed | 4 | HR | HR | HR | HR | R | R | R | HR | R | HR | | |
| WL 327 | W-L Research, Inc. | 4 | HR | R | HR | HR | HR | R | R | HR | R | HR | | |
| WL 342 | W-L Research, Inc. | 4 | HR | HR | HR | HR | HR | HR | HR | | R | HR | | |
| XTRA-3 | Union Seed Co. | 4 | HR | R | HR | HR | HR | R | HR | R | HR | R | | |
| 512 | Farm Valley Brand | 5 | HR | R | HR | HR | HR | R | R | HR | R | R | | |
| 55H05 | Pioneer Hi-Bred International, Inc. | 5 | R | HR | R | HR | HR | HR | HR | HR | HR | R | | HR |
| 5-Star | CROPLAN GENETICS | 5 | R | R | HR | R | R | R | R | R | R | R | | |
| Archer II | America's Alfalfa | 5 | R | HR | HR | HR | R | HR | MR | HR | HR | | | R |
| Baralfa 53HR | Barenbrug USA | 5 | HR | R | HR | HR | HR | | R | | R | HR | | |
| DKA50-18 | Monsanto | 5 | HR | HR | HR | HR | HR | R | R | | R | HR | | |
| Evermore | Allied Seed/Southern States | 5 | HR | HR | HR | HR | HR | HR | R | | R | HR | | MR |
| Expedition | Syngenta | 5 | R | HR | HR | HR | HR | R | | | R | HR | | R |
| Mountaineer 2.C | CROPLAN GENETICS | 5 | HR | R | HR | HR | HR | R | HR | | HR | R | | |
| Recover | Union Seed Co. | 5 | R | R | HR | R | R | R | R | R | R | R | | |
| Ruccus | Target Seed, LLC | 5 | R | R | HR | MR | HR | R | R | LR | R | | | MR |
| WL 357HQ | W-L Research, Inc. | 5 | HR | HR | HR | HR | HR | | HR | | | HR | | |
| Lobo | Eureka Seeds, Inc. | 6 | MR | R | HR | R | R | R | R | R | R | | | R |
| Magna 601 | Dairyland SeedCo., Inc. | 6 | R | MR | HR | R | HR | HR | R | | R | MR | R | R |
| Tango | Eureka Seeds, Inc. | 6 | MR | HR | HR | HR | HR | HR | HR | R | MR | | | R |

| | | | | |
|-----|-----------------------|------|-----------------------------|----------------------------------|
| FD | Fall Dormancy | PA | Pea Aphid | Blank spaces indicate variety is |
| BW | Bacterial Wilt | BAA | Blue Alfalfa Aphid | susceptible or has not been |
| VW | Verticillium Wilt | SN | Stem Nematode | adequately tested. |
| FW | Fusarium Wilt | APH | Aphanomyces | |
| AN | Anthracoze Race 1 | SRKN | Southern Root Knot Nematode | |
| PRR | Phytophthora Root Rot | NRKN | Northern Root Knot Nematode | |
| SAA | Spotted Alfalfa Aphid | | | |



Table 4: Three-Year Forage Yield -- 2003 Alfalfa Variety Trial, Pasco, Franklin Co., WA.

| Entry | Seeded 8/21/03 Final %Stand | 2004 Harvests | | 05 Harvests | | 06 Harvests | | | | | 2006 Total | 2006% mean | 3-Year Total | 3-Yr % mean | 5/25/06 Regrowth** | 10/16/06 Regrowth*** |
|----------------------------|-----------------------------------|---------------|---------------|---------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------|---------------|-----------------|----------------|-----------------------|-------------------------|
| | | 2004 Total | 2004% mean | 2005 Total | 2005% mean | 15-May Cut 1 | 15-Jun Cut 2 | 17-Jul Cut 3 | 15-Aug Cut 4 | 19-Sep Cut 5 | | | | | | |
| Forage Yield (Tons DM/Ac) | | | | | | | | | | | | | | | | |
| DKA50-18 | 99.7 | 7.1 | 104.9% | 6.9 | 103.3% | 1.6 | 1.9 | 1.7 | 1.7 | 1.3 | 8.2 | 108.0% | 22.2 | 105.5% | 8.5 | 4.8 |
| *Mountaineer 2.0 (FG4M124) | 99.0 | 6.9 | 101.4% | 7.1 | 106.4% | 1.6 | 1.7 | 1.8 | 1.8 | 1.4 | 8.2 | 108.2% | 22.2 | 105.4% | 4.8 | 6.3 |
| Expedition | 98.1 | 6.9 | 101.2% | 6.6 | 99.4% | 1.6 | 1.8 | 1.9 | 1.8 | 1.5 | 8.6 | 113.0% | 22.1 | 104.9% | 8.8 | 6.5 |
| Boulder | 98.7 | 7.2 | 106.2% | 6.8 | 103.2% | 1.3 | 1.7 | 1.7 | 1.7 | 1.4 | 7.9 | 104.1% | 22.0 | 104.5% | 4.8 | 7.8 |
| 54Q25 | 99.3 | 7.2 | 105.8% | 6.9 | 104.0% | 1.4 | 1.5 | 1.7 | 1.7 | 1.3 | 7.7 | 101.1% | 21.8 | 103.5% | 3.3 | 3.8 |
| SW 435 | 98.8 | 6.8 | 100.5% | 6.8 | 102.6% | 1.5 | 1.7 | 1.7 | 1.7 | 1.4 | 8.0 | 105.1% | 21.6 | 102.8% | 5.8 | 5.5 |
| DKA42-15 | 98.5 | 7.0 | 102.7% | 6.5 | 97.7% | 1.5 | 1.6 | 1.8 | 1.7 | 1.3 | 7.9 | 103.6% | 21.3 | 101.4% | 5.8 | 4.5 |
| LegenDairy 5.0 | 99.9 | 6.7 | 98.3% | 6.5 | 97.2% | 1.5 | 1.7 | 1.7 | 1.7 | 1.4 | 8.0 | 105.3% | 21.1 | 100.5% | 7.8 | 4.8 |
| Archer II | 99.3 | 6.6 | 97.3% | 6.7 | 101.6% | 1.2 | 1.4 | 1.7 | 1.7 | 1.3 | 7.4 | 97.0% | 20.7 | 98.5% | 2.5 | 6.5 |
| AmeriStand 403T | 99.0 | 6.9 | 101.9% | 6.5 | 98.2% | 1.4 | 1.5 | 1.6 | 1.5 | 1.2 | 7.2 | 95.3% | 20.7 | 98.4% | 2.0 | 2.5 |
| Plumas | 99.0 | 7.1 | 104.1% | 6.5 | 98.7% | 1.3 | 1.5 | 1.6 | 1.5 | 1.2 | 7.0 | 92.7% | 20.7 | 98.3% | 2.5 | 3.3 |
| Robust T&N | 97.9 | 6.3 | 93.1% | 6.8 | 102.9% | 1.3 | 1.4 | 1.7 | 1.6 | 1.4 | 7.4 | 97.6% | 20.6 | 97.8% | 3.5 | 7.3 |
| Bullseye | 99.9 | 6.8 | 100.2% | 6.6 | 99.7% | 1.2 | 1.6 | 1.6 | 1.5 | 1.2 | 7.0 | 92.1% | 20.4 | 97.1% | 2.0 | 3.0 |
| 512 | 98.4 | 6.7 | 98.1% | 6.5 | 97.5% | 1.3 | 1.5 | 1.6 | 1.6 | 1.2 | 7.1 | 94.0% | 20.3 | 96.5% | 2.8 | 3.5 |
| 9429 | 99.3 | 6.7 | 99.1% | 6.3 | 95.6% | 1.3 | 1.6 | 1.6 | 1.5 | 1.2 | 7.2 | 94.2% | 20.2 | 96.3% | 3.8 | 3.5 |
| Vernal | 98.7 | 5.8 | 85.3% | 6.1 | 92.1% | 1.3 | 1.5 | 1.5 | 1.4 | 1.0 | 6.7 | 88.7% | 18.6 | 88.7% | 2.0 | 2.3 |
| Mean | 98.9 | 6.8 | 100.0% | 6.6 | 100.0% | 1.4 | 1.6 | 1.7 | 1.6 | 1.3 | 7.6 | 100.0% | 21.0 | 100.0% | 4.4 | 4.7 |
| LSD 5% | 1.24 | 0.78 | 11.47 | NS | NS | 0.21 | 0.24 | 0.17 | 0.22 | 0.16 | 0.73 | 9.58 | 1.21 | 5.75 | 1.22 | 1.75 |
| CV % | 0.9 | 8.1 | 8.1 | 6.0 | 6.0 | 10.8 | 10.3 | 6.9 | 9.5 | 9.0 | 6.7 | 6.7 | 4.0 | 4.0 | 19.4 | 25.9 |

* Planted as experimental

** 1=shortest, 9=tallest

*** 9=9 inches, 2=3 inches

Table 5: Three-Year Forage Yield -- 2003 Alfalfa Variety Trial, Othello, Grant Co., WA.

| Entry | Seeded 8/26/03 Final %Stand | 2004 Harvests | | 05 Harvests | | 06 Harvests | | | | 2006 Total | 2006% mean | 3-Year Total | 3-Yr % mean |
|---------------------------|--------------------------------|---------------|---------------|-------------|---------------|--------------|-------------|-------------|--------------|-------------|---------------|--------------|---------------|
| | | 2004 Total | 2004% mean | 2005 Total | 2005% mean | 23-May Cut 1 | 3-Jul Cut 2 | 6-Jun Cut 3 | 13-Sep Cut 4 | | | | |
| Forage Yield (Tons DM/Ac) | | | | | | | | | | | | | |
| DKA33-16 | 95 | 7.5 | 111.1% | 8.2 | 108.6% | 2.4 | 2.1 | 1.9 | 1.5 | 7.9 | 117.8% | 23.7 | 112.3% |
| LegenDairy 5.0 | 95 | 7.6 | 111.1% | 8.2 | 107.7% | 2.3 | 2.0 | 1.8 | 1.3 | 7.5 | 111.3% | 23.2 | 109.9% |
| DKA42-15 | 96 | 7.4 | 108.7% | 8.1 | 106.9% | 2.2 | 2.1 | 1.7 | 1.4 | 7.4 | 110.8% | 22.9 | 108.7% |
| Boulder | 94 | 7.3 | 107.0% | 8.1 | 106.3% | 2.1 | 2.1 | 1.8 | 1.3 | 7.2 | 107.6% | 22.6 | 106.9% |
| Mountaineer 2.0 (FG4M124) | 96 | 6.8 | 100.4% | 8.1 | 106.3% | 2.1 | 2.1 | 1.8 | 1.4 | 7.4 | 110.1% | 22.3 | 105.6% |
| WL 357HQ | 92 | 7.4 | 108.2% | 7.8 | 102.2% | 2.1 | 2.0 | 1.7 | 1.2 | 7.0 | 104.3% | 22.1 | 104.8% |
| *Robust T & N | 96 | 6.9 | 101.1% | 8.1 | 106.8% | 1.8 | 1.9 | 1.8 | 1.4 | 6.9 | 103.2% | 21.9 | 103.8% |
| Robust T & N | 93 | 6.7 | 99.3% | 8.0 | 105.7% | 1.9 | 1.9 | 1.9 | 1.4 | 7.0 | 104.7% | 21.8 | 103.3% |
| 54Q25 | 94 | 6.8 | 100.5% | 7.8 | 102.3% | 2.2 | 1.9 | 1.8 | 1.3 | 7.1 | 106.5% | 21.7 | 103.1% |
| ML 05 - 3773 | 93 | 6.8 | 100.0% | 7.9 | 103.3% | 1.9 | 1.9 | 1.7 | 1.4 | 6.9 | 102.4% | 21.5 | 102.0% |
| Somerset | 92 | 7.0 | 103.4% | 7.4 | 96.9% | 2.0 | 1.9 | 1.6 | 1.2 | 6.7 | 100.6% | 21.1 | 100.1% |
| Archer II | 93 | 6.8 | 99.9% | 7.9 | 103.5% | 1.8 | 1.7 | 1.6 | 1.3 | 6.4 | 96.0% | 21.1 | 100.0% |
| Baralfa 321Q | 93 | 6.9 | 102.2% | 7.5 | 98.3% | 2.0 | 1.8 | 1.5 | 1.3 | 6.6 | 97.9% | 21.0 | 99.4% |
| Phirst | 95 | 6.4 | 93.7% | 7.5 | 99.0% | 2.2 | 1.9 | 1.7 | 1.3 | 7.1 | 105.3% | 21.0 | 99.3% |
| HybriForce 420 | 94 | 6.6 | 96.4% | 7.5 | 99.1% | 2.0 | 1.8 | 1.7 | 1.3 | 6.7 | 100.3% | 20.8 | 98.6% |
| Plumas | 90 | 7.0 | 102.3% | 7.4 | 97.8% | 1.8 | 1.8 | 1.7 | 1.2 | 6.4 | 95.7% | 20.8 | 98.6% |
| 512 | 94 | 6.4 | 93.5% | 7.5 | 99.1% | 1.9 | 1.8 | 1.7 | 1.2 | 6.6 | 99.2% | 20.5 | 97.3% |
| Ranger | 92 | 6.5 | 95.2% | 7.4 | 97.8% | 2.0 | 1.9 | 1.6 | 1.1 | 6.6 | 97.9% | 20.5 | 97.0% |
| Baralfa 53HR | 93 | 6.9 | 101.0% | 7.2 | 95.4% | 1.8 | 1.9 | 1.7 | 1.1 | 6.3 | 94.7% | 20.5 | 97.0% |
| AmeriStand 403T | 92 | 6.7 | 98.5% | 7.3 | 95.7% | 1.9 | 1.9 | 1.6 | 1.1 | 6.5 | 96.4% | 20.4 | 96.8% |
| HybriForce 400 | 93 | 6.0 | 89.0% | 7.3 | 96.3% | 1.9 | 1.7 | 1.4 | 1.1 | 6.2 | 92.3% | 19.6 | 92.7% |
| 9429 | 91 | 6.6 | 97.4% | 6.8 | 89.3% | 1.6 | 1.8 | 1.6 | 1.1 | 6.1 | 90.8% | 19.5 | 92.4% |
| Baralfa 54 | 96 | 6.3 | 92.9% | 7.0 | 91.8% | 1.6 | 1.6 | 1.6 | 1.1 | 5.8 | 86.4% | 19.1 | 90.4% |
| Vernal | 74 | 5.9 | 87.3% | 6.4 | 84.1% | 1.3 | 1.3 | 1.3 | 0.7 | 4.6 | 67.9% | 16.9 | 80.0% |
| Mean | 92.6 | 6.8 | 100.0% | 7.6 | 100.0% | 1.9 | 1.9 | 1.7 | 1.2 | 6.7 | 100.0% | 21.1 | 100.0% |
| LSD 5% | 5.16 | 0.63 | 9.31 | 0.63 | 8.30 | 0.25 | 0.16 | 0.19 | 0.22 | 0.58 | 8.61 | 1.52 | 7.19 |
| CV % | 4.0 | 6.6 | 6.6 | 5.9 | 5.9 | 9.2 | 6.0 | 8.0 | 12.9 | 6.2 | 6.2 | 5.1 | 5.1 |

* treated with ryzocoat

Table 6: Two-Year Forage Yield: 2004 Alfalfa Variety Trial, Pasco, Franklin Co., WA. (Revised)

| Seeded 8/05/04 | Forage Yield (Tons DM/Ac) | | | | | | | | | | | | |
|------------------|---------------------------|---------------|------------|-------------|-------------|-------------|-------------|-------------|---------------|-------------|---------------|-------------|----------------|
| | 05Harvests | | | | 06 Harvests | | | | | | | | |
| | 2005 | 2005% | 15-May | 15-Jun | 17-Jul | 15-Aug | 19-Sep | 2006 | 2006% | 2-Year | 2-Yr % | 05/25/06 | 10/16/06 |
| Entry | Total | mean | Cut 1 | Cut 2 | Cut 3 | Cut 4 | Cut 5 | Total | mean | Total | mean | Regrowth | Fall Regrowth* |
| SW4328 | 6.3 | 103.1% | 1.8 | 1.9 | 1.9 | 1.8 | 1.5 | 8.9 | 106.4% | 15.2 | 105.0% | 5.8 | 7.8 |
| AmeriStand 444NT | 6.3 | 103.8% | 1.9 | 1.8 | 1.8 | 1.7 | 1.5 | 8.6 | 102.6% | 14.9 | 103.1% | 3.3 | 4.8 |
| Masterpiece | 6.5 | 105.7% | 1.8 | 1.7 | 1.8 | 1.7 | 1.4 | 8.4 | 99.9% | 14.8 | 102.4% | 3.3 | 4.5 |
| SW3304 | 6.2 | 102.0% | 1.8 | 1.8 | 1.8 | 1.7 | 1.4 | 8.6 | 102.0% | 14.8 | 102.0% | 4.5 | 5.0 |
| FG50W210 | 6.0 | 98.9% | 1.7 | 1.8 | 1.9 | 1.8 | 1.5 | 8.7 | 103.3% | 14.7 | 101.5% | 8.3 | 7.8 |
| WL 357HQ | 6.0 | 97.7% | 1.8 | 1.8 | 1.9 | 1.7 | 1.5 | 8.7 | 104.0% | 14.7 | 101.4% | 6.8 | 5.0 |
| 54Q25 | 6.0 | 99.0% | 1.7 | 1.8 | 1.9 | 1.7 | 1.4 | 8.6 | 102.4% | 14.6 | 101.0% | 4.0 | 4.3 |
| Boulder | 6.1 | 100.0% | 1.8 | 1.8 | 1.8 | 1.7 | 1.4 | 8.5 | 101.3% | 14.6 | 100.7% | 5.3 | 6.3 |
| Perfect | 6.2 | 102.1% | 1.8 | 1.8 | 1.8 | 1.7 | 1.3 | 8.3 | 99.4% | 14.6 | 100.6% | 3.3 | 3.5 |
| Rebound 5.0 | 5.9 | 96.3% | 1.9 | 1.8 | 1.8 | 1.7 | 1.4 | 8.6 | 102.8% | 14.5 | 100.0% | 4.3 | 4.5 |
| Whitney | | | | | | | | | | | | | |
| (FG40W203) | 6.1 | 100.1% | 1.6 | 1.7 | 1.8 | 1.6 | 1.4 | 8.2 | 97.4% | 14.3 | 98.5% | 4.8 | 6.8 |
| SW5310 | 6.0 | 97.9% | 1.7 | 1.7 | 1.7 | 1.7 | 1.4 | 8.3 | 98.9% | 14.3 | 98.5% | 5.5 | 7.8 |
| 512 | 6.0 | 98.5% | 1.7 | 1.6 | 1.7 | 1.6 | 1.3 | 7.9 | 94.3% | 13.9 | 96.1% | 2.3 | 3.8 |
| Vernal | 5.9 | 97.3% | 1.7 | 1.6 | 1.6 | 1.5 | 1.2 | 7.5 | 89.6% | 13.5 | 92.9% | 2.3 | 2.0 |
| 54H11 | 5.5 | 89.6% | 1.7 | 1.7 | 1.7 | 1.5 | 1.2 | 7.9 | 93.8% | 13.3 | 92.0% | 2.5 | 3.8 |
| Mean | 6.1 | 100.0% | 1.8 | 1.8 | 1.8 | 1.7 | 1.4 | 8.4 | 100.0% | 14.5 | 100.0% | 4.4 | 5.2 |
| LSD 5% | 0.44 | 7.21 | NS | 0.11 | 0.14 | 0.13 | 0.13 | 0.50 | 5.96 | 0.79 | 5.45 | 2.07 | 1.2 |
| CV % | 5.1 | 5.1 | 6.0 | 4.2 | 5.4 | 5.5 | 6.4 | 4.2 | 4.2 | 3.9 | 3.9 | 33.1 | 15.8 |

* 9=12 inches

2= 4 inches

Table 7: Two-Year Forage Yield: 2004 Alfalfa Variety Trial, Othello, Grant Co., WA. (Revised)

| Seeded 8/10/04 Entry | 05 Harvests | | | 06 Harvests | | | 2006 Total | 2006% mean | 2-Year Total | 2-Yr % mean |
|-------------------------|---------------|---------------|---------------------|----------------|----------------|---------------------|---------------|---------------|-----------------|----------------|
| | 2005 Total | 2005% mean | 23- May Cut 1 | 3-Jul Cut 2 | 7-Aug Cut 3 | 13- Sep Cut 4 | | | | |
| Rebound 5.0 | 7.9 | 103.4% | 3.0 | 2.1 | 1.9 | 1.4 | 8.5 | 114.5% | 16.3 | 109.0% |
| HybriForce 420/wet | 7.6 | 99.6% | 2.9 | 2.0 | 1.7 | 1.3 | 7.9 | 107.2% | 15.5 | 103.4% |
| FG41W204 | 7.5 | 98.8% | 2.8 | 2.1 | 1.8 | 1.3 | 8.0 | 107.9% | 15.5 | 103.4% |
| Whitney (FG40W203) | 7.8 | 102.6% | 2.5 | 2.0 | 1.7 | 1.3 | 7.5 | 102.0% | 15.4 | 102.4% |
| 54Q25 | 7.7 | 101.0% | 2.8 | 1.9 | 1.7 | 1.2 | 7.6 | 103.2% | 15.3 | 102.2% |
| SW3304 | 7.8 | 102.8% | 2.5 | 2.0 | 1.7 | 1.1 | 7.3 | 98.6% | 15.1 | 100.8% |
| Boulder | 7.8 | 102.2% | 2.5 | 2.0 | 1.7 | 1.1 | 7.3 | 98.7% | 15.1 | 100.6% |
| DS218 | 7.5 | 98.1% | 2.5 | 2.0 | 1.7 | 1.3 | 7.4 | 100.6% | 14.9 | 99.4% |
| 512 | 7.6 | 99.7% | 2.4 | 1.9 | 1.7 | 1.2 | 7.2 | 97.1% | 14.8 | 98.5% |
| AmeriStand 444NT | 7.5 | 98.3% | 2.0 | 1.9 | 1.6 | 1.2 | 7.2 | 96.8% | 14.6 | 97.6% |
| Vernal | 6.7 | 88.2% | 2.3 | 1.5 | 1.3 | 0.8 | 5.9 | 80.2% | 12.7 | 84.4% |
| Mean | 7.6 | 100.0% | 2.6 | 1.9 | 1.7 | 1.2 | 7.4 | 100.0% | 15.0 | 100.0% |
| LSD 5% | 0.43 | 5.70% | 0.48 | 0.14 | 0.13 | 0.16 | 0.76 | 10.26% | 1.07 | 7.07% |
| CV % | 4.0 | 4.0 | 12.7 | 5.1 | 5.4 | 9.5 | 7.1 | 7.1 | 5.0 | 5.0 |

Table 8: One-Year Forage Yield: 2005 Alfalfa Variety Trial, Pasco, Franklin Co., WA (Revised).

| Seeded 8/18/05 Entry | 06 Harvests | | | | | 2006 Total | 2006% mean | 2006 | |
|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------|---------------|--------------------|----------------------|
| | 15-May Cut 1 | 15-Jun Cut 2 | 17-Jul Cut 3 | 15-Aug Cut 4 | 19-Sep Cut 5 | | | 6-Jun Regrowth* | 18-Oct Regrowth** |
| FG41W206 | 1.63 | 1.83 | 1.83 | 1.86 | 1.70 | 8.84 | 107.0% | 5.8 | 4.5 |
| DKA 50-18 | 1.64 | 1.78 | 1.82 | 1.89 | 1.65 | 8.77 | 106.2% | 8.5 | 7.0 |
| FSG505 | 1.69 | 1.79 | 1.76 | 1.79 | 1.58 | 8.61 | 104.3% | 6.0 | 5.3 |
| GrandStand (FG41M120) | 1.63 | 1.79 | 1.79 | 1.79 | 1.61 | 8.60 | 104.1% | 7.5 | 4.8 |
| Boulder | 1.67 | 1.69 | 1.73 | 1.85 | 1.63 | 8.57 | 103.7% | 5.0 | 6.8 |
| Phoenix | 1.81 | 1.69 | 1.72 | 1.77 | 1.54 | 8.54 | 103.4% | 4.5 | 5.3 |
| DKA 42-15 | 1.73 | 1.69 | 1.77 | 1.81 | 1.54 | 8.54 | 103.4% | 6.0 | 4.0 |
| Escalade | 1.59 | 1.65 | 1.83 | 1.87 | 1.52 | 8.45 | 102.3% | 7.5 | 8.3 |
| 55H05 | 1.66 | 1.68 | 1.71 | 1.80 | 1.58 | 8.43 | 102.1% | 4.3 | 5.0 |
| FG42W205 | 1.41 | 1.71 | 1.77 | 1.82 | 1.62 | 8.33 | 100.9% | 5.5 | 7.0 |
| Lariat | 1.45 | 1.70 | 1.87 | 1.80 | 1.50 | 8.32 | 100.7% | 4.0 | 4.0 |
| Masterpiece | 1.58 | 1.67 | 1.73 | 1.80 | 1.54 | 8.31 | 100.7% | 4.3 | 4.8 |
| Whitney (FG40W203) | 1.50 | 1.68 | 1.78 | 1.80 | 1.54 | 8.30 | 100.5% | 3.8 | 6.0 |
| Genoa | 1.40 | 1.63 | 1.83 | 1.83 | 1.56 | 8.25 | 99.8% | 5.3 | 4.8 |
| Perfect | 1.42 | 1.70 | 1.78 | 1.75 | 1.55 | 8.19 | 99.1% | 3.8 | 3.8 |
| AA209W | 1.64 | 1.60 | 1.65 | 1.73 | 1.56 | 8.18 | 99.0% | 5.0 | 7.0 |
| AA208W | 1.60 | 1.60 | 1.70 | 1.69 | 1.47 | 8.06 | 97.5% | 4.8 | 6.0 |
| Reward II | 1.60 | 1.67 | 1.67 | 1.63 | 1.41 | 7.96 | 96.4% | 4.0 | 3.5 |
| AA210W | 1.68 | 1.58 | 1.59 | 1.64 | 1.46 | 7.94 | 96.2% | 4.8 | 4.3 |
| 54Q25 | 1.61 | 1.60 | 1.63 | 1.65 | 1.46 | 7.94 | 96.1% | 4.0 | 3.5 |
| Vernema | 1.65 | 1.58 | 1.57 | 1.66 | 1.45 | 7.92 | 95.9% | 2.8 | 3.8 |
| AA207W | 1.55 | 1.50 | 1.51 | 1.55 | 1.50 | 7.62 | 92.2% | 5.5 | 5.8 |
| Vernal | 1.66 | 1.38 | 1.29 | 1.35 | 1.18 | 6.85 | 82.9% | 2.0 | 2.3 |
| Mean | 1.6 | 1.7 | 1.7 | 1.7 | 1.5 | 8.2 | 100.0% | 5.0 | 5.1 |
| LSD 5% | NS | 0.17 | 0.14 | 0.13 | 0.15 | 0.55 | 6.71 | 1.70 | 1.20 |
| CV % | 13.7 | 7.2 | 5.9 | 5.2 | 6.8 | 4.7 | 4.6 | 24.2 | 16.2 |

* 1=shortest, 9=tallest

** 2=4", 9=12"



Table 9: One-Year Forage Yield -- 2005 Alfalfa Variety Trial, Othello, Grant Co., WA.

| Seeded 8/18/05 Entry | 06 Harvests | | | | 2006 Total | 2006% mean | 2006 30-Oct Regrowth* |
|---------------------------|-----------------|----------------|----------------|-----------------|---------------|---------------|-----------------------------|
| | 23-May Cut 1 | 3-Jul Cut 2 | 7-Aug Cut 3 | 13-Sep Cut 4 | | | |
| Forage Yield (Tons DM/Ac) | | | | | | | |
| DKA 42-15 | 1.83 | 2.04 | 1.82 | 1.25 | 6.93 | 106.2% | 5.0 |
| 55H05 | 1.99 | 1.95 | 1.76 | 1.23 | 6.93 | 106.2% | 6.5 |
| AA209W | 1.96 | 1.95 | 1.71 | 1.30 | 6.92 | 106.0% | 8.0 |
| Boulder | 1.87 | 1.96 | 1.80 | 1.25 | 6.88 | 105.3% | 7.0 |
| AA210W | 1.77 | 1.98 | 1.77 | 1.33 | 6.84 | 104.8% | 6.0 |
| WL357HQ | 1.89 | 1.89 | 1.83 | 1.19 | 6.80 | 104.1% | 6.3 |
| FG41W206 | 1.96 | 1.89 | 1.73 | 1.17 | 6.74 | 103.2% | 4.3 |
| DS507 Hyb | 2.01 | 1.73 | 1.75 | 1.18 | 6.67 | 102.1% | 5.5 |
| AA208W | 1.65 | 1.93 | 1.80 | 1.26 | 6.64 | 101.7% | 6.5 |
| Genoa | 1.70 | 1.94 | 1.76 | 1.19 | 6.58 | 100.8% | 6.0 |
| FSG406 | 1.71 | 1.83 | 1.81 | 1.22 | 6.56 | 100.5% | 6.3 |
| Hybriforce 620 | 1.79 | 1.84 | 1.66 | 1.26 | 6.54 | 100.2% | 7.8 |
| FG42W205 | 1.89 | 1.86 | 1.64 | 1.14 | 6.52 | 99.8% | 7.0 |
| DKA 33-16 | 1.68 | 1.81 | 1.78 | 1.20 | 6.46 | 99.0% | 5.0 |
| GrandStand (FG41M120) | 1.81 | 1.92 | 1.59 | 1.13 | 6.45 | 98.8% | 5.0 |
| Perfect | 1.89 | 1.83 | 1.63 | 1.08 | 6.43 | 98.4% | 4.3 |
| 54Q25 | 1.90 | 1.80 | 1.55 | 1.18 | 6.42 | 98.4% | 5.3 |
| AA207W | 1.77 | 1.87 | 1.64 | 1.12 | 6.40 | 98.1% | 5.3 |
| DS506 Hyb | 1.93 | 1.77 | 1.55 | 1.12 | 6.38 | 97.7% | 5.0 |
| DS204 Hyb | 1.79 | 1.79 | 1.63 | 1.08 | 6.29 | 96.3% | 4.8 |
| Power 4.2 | 1.65 | 1.85 | 1.58 | 1.16 | 6.24 | 95.5% | 4.5 |
| Lariat | 1.71 | 1.83 | 1.65 | 0.96 | 6.15 | 94.2% | 4.0 |
| Vernema | 1.80 | 1.73 | 1.49 | 1.08 | 6.10 | 93.4% | 4.5 |
| Vernal | 1.99 | 1.54 | 1.37 | 0.93 | 5.83 | 89.3% | 4.0 |
| Mean | 1.8 | 1.9 | 1.7 | 1.2 | 6.5 | 100.0% | 5.6 |
| LSD 5% | 0.42 | 0.21 | 0.23 | 0.25 | 0.77 | 11.73% | 1.82 |
| CV % | 16.1 | 8.0 | 9.6 | 14.9 | 8.3 | 8.3 | 23.2 |

*regrowth in inches

