

# Colorado

2004 forage yield of 32 alfalfa varieties in the irrigated trial at the Arkansas Valley Research Center, Rocky Ford, Colorado.

First year results



<i>Entry/Variety</i>	<i>1st Cut 25-May</i>	<i>2nd Cut 20-Jul</i>	<i>3rd Cut 18-Aug</i>	<i>4th Cut 18-Oct</i>	<i>2004 Total</i>
<b>Bullseye</b>	<b>2.91</b>	<b>2.38</b>	<b>1.03</b>	<b>0.72</b>	<b>7.05</b>
Evermore	2.66	2.39	1.00	0.93	7.04
Abundance	2.70	2.49	0.96	0.82	6.98
55H05	2.64	2.31	1.11	1.00	6.97
<b>Rebel</b>	<b>2.64</b>	<b>2.39</b>	<b>1.05</b>	<b>0.87</b>	<b>6.96</b>
FSG 505	2.52	2.60	0.97	0.95	6.95
5009	2.55	2.46	1.09	0.81	6.95
5073	2.51	2.45	1.02	0.90	6.9
Goliath	2.67	2.50	0.89	0.78	6.88
Baralfa 53HR	2.56	2.51	0.89	0.83	6.85
Reward II	2.46	2.44	1.03	0.82	6.79
FSG 406	2.44	2.38	1.04	0.87	6.75
15029	2.42	2.45	0.96	0.82	6.73
Lahontan	2.42	2.54	0.90	0.80	6.67
Baralfa 42IQ	2.52	2.58	0.89	0.65	6.66
<b>Rugged</b>	<b>2.32</b>	<b>2.64</b>	<b>0.93</b>	<b>0.73</b>	<b>6.63</b>
DS304HYB	2.44	2.23	1.02	0.91	6.61
Expedition	2.33	2.49	0.95	0.84	6.6
WL 327HQ	2.26	2.31	1.00	0.89	6.46
25035	2.06	2.39	0.94	0.74	6.13
<i>Average Mean</i>	2.57	2.51	1.00	0.86	6.93
<i>LSD (0.05)</i>	0.26	0.21	0.16	NS*	0.49

Yield is on oven dry basis

Planted: 8/26/2003

October 26, 2002: 156 lb P205 + 33 lb N/acre as 11-52-0

March 10, 2004: Pursuit @ 0.0625 a.i./acre

**\*NS: Differences among entries are significant at 95% probability ( $\alpha=0.05$ )**

Salmon Idaho Commerical Test, Second Year, Sorted by 1-Year Average Yield  
Harvesting Dates: June 16, July 29th, September 19, 2003

Entry	2003	First	Second	Third	First Cutting June 16th			Second Cutting July 29		
	Total Yield	Cutting	Cutting	Cutting	CP %	ADF %	RFV index	CP %	ADF %	RFV index
	----- (ton/acre) -----									
Rugged	4.0	1.4	1.0	1.6	21.4	29.9	165.0	21.6	29.5	168.0
Wrangler	4.0	1.4	0.8	1.8	20.0	30.6	160.0	20.8	30.2	163.0
Rampage	3.9	1.8	0.7	1.4	21.1	29.9	164.0	21.0	29.7	166.0
Ranger	3.8	1.3	1.0	1.5	20.6	30.4	161.0	20.8	29.5	167.0
Plumas	3.7	1.6	0.6	1.5	21.4	29.6	166.0	21.1	29.5	167.0
WL 319HQ	3.7	1.6	0.7	1.4	21.6	29.3	169.0	21.9	28.7	173.0
Dura 512	3.5	1.2	0.8	1.5	21.0	30.4	162.0	21.7	29.0	171.0
Virto	3.5	1.2	0.8	1.5	21.0	29.5	167.0	21.0	29.6	166.0
A 30-06	3.4	1.0	1.0	1.4	21.7	29.0	170.0	20.8	29.4	168.0
Rebel	3.4	1.5	0.6	1.3	21.0	30.0	164.0	21.0	30.1	163.0
DKA 42-15	3.3	1.2	0.7	1.4	21.5	29.7	166.0	21.4	29.3	168.0
Vernal	3.1	1.2	0.8	1.1	19.9	31.3	155.0	21.2	29.3	169.0
Mean	3.7	1.5	0.8	1.5	21.0	29.9	164.0	21.2	29.5	167.0
LSD (.05)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CV%	30.4	43.9	32.6	16.5	5.4	3.5	4.3	4.6	3.8	4.7

Iowa State University  
Cattle Traffic and Grazing Trial  
Planted April 2000

<i>Variety</i>	<i>10/3/2000</i>	<i>10/3/2001</i>	<i>10/15/2002</i>	<i>% Initial</i>
Rugged	97	74	36	37
Pioneer Brand 5454	95	51	11	12
FQ 315	97	59	10	11
WL 323	97	65	10	10
DK 140	94	52	9	9
Geneva	93	61	8	8
Pioneer Brand 54Q53	100	62	8	8
Rebound 4.2	96	62	6	7
Magnum V	96	65	7	7
GH 757	100	58	7	7
Mean	96	70	29	30
LSD (5%)	8	14	11	12

# Montana

<i>2002 Sidney Variety</i>	<i>2003 - 2005 Mean tons DM/A</i>
<b>Rugged</b>	<b>6.40</b>
AmeriStand 403T	6.29
6420	6.26
Hybriforce 400	6.17
WL 319HQ	6.16
Hybriforce 400/wet	6.15
Rebel	6.09
Plumas	6.08
Ladak DL	6.05
Shaw	6.01
Wrangler	5.98
XTRA-3	5.91
Cooper	5.90
Ladak 65	5.15
<i>Mean</i>	6.04
<i>CV (LSD (0.05))</i>	0.48
<i>CV %</i>	5.6

2005 Summary of the 2002 Montana uniform intrastate alfalfa yield trial at Sidney-Irrigated

# Montana

<i>2003 Sidney</i>	<i>Yield t/Acre</i>			
<i>Variety</i>	<i>1st</i>	<i>2nd</i>	<i>3rd</i>	<i>Total</i>
<b>Rebel CR</b>	<b>3.30</b>	<b>2.80</b>	<b>1.97</b>	<b>8.07</b>
Shaw	3.20	2.90	1.95	8.05
6420	3.30	2.70	2.00	8.00
<b>Rugged CR</b>	<b>3.20</b>	<b>2.70</b>	<b>2.01</b>	<b>7.91</b>
Wrangler	3.30	2.70	1.89	7.89
Hybriforce 400	3.30	2.70	1.89	7.89
AmeriStand 403T	3.20	2.70	1.91	7.81
WL 319HQ	3.10	2.90	1.76	7.76
D559809 Hyb Exp.	3.20	2.60	1.94	7.74
Plumas	3.10	2.70	1.92	7.72
Ladak DL	3.20	2.60	1.89	7.69
FG 39134	3.10	2.60	1.98	7.68
Cooper	3.20	2.50	1.96	7.66
Ladak 65	2.70	2.30	1.52	5.62
<b><i>P Value</i></b>	0.514	0.051	0.018	
<b><i>CV (s/mean)</i></b>	10.5	7.9	8.7	
<b><i>LSD (0.05)</i></b>	ns	0.3	0.2	

Planted: May 28,2002

First Harvest: June 18

Second Harvest: August 1

Third Harvest: September 9

Irrigated: June 27, Aug 2, Aug 26

# Montana

## 2005 Sidney Irrigated

<i>Variety</i>	<i>Yield t/Acre</i>		
	<i>2003</i>	<i>2004</i>	<i>2005</i>
<b>Rugged</b>	<b>7.92</b>	<b>5.10</b>	<b>6.13</b>
AmeriStand 403T	7.79	5.09	5.99
6420	8.04	4.91	5.84
WL 319HQ	7.76	4.96	5.75
Ladak DL	7.74	4.70	5.71
Hybri-Force 400	7.83	5.04	5.65
Plumas	7.78	4.86	5.59
Hybri-Force 420 wet	7.80	5.08	5.58
XTRA-3	7.63	4.76	5.35
Rebel	8.03	4.92	5.33
Cooper	7.67	4.69	5.33
Wrangler	7.91	4.74	5.28
Shaw	8.08	4.71	5.24
Ladak 65	6.51	4.09	4.84
<b>Mean</b>	<b>7.75</b>	<b>4.83</b>	<b>5.54</b>
<b>LSD (0.05)</b>	<b>0.72</b>	<b>NS</b>	<b>0.5</b>
<b>CV%</b>	<b>6.5</b>	<b>8.7</b>	<b>6.4</b>

# Montana

## 2005 Huntley Irrigated

<i>Variety</i>	<i>Yield t/Acre</i>		
	<i>2003</i>	<i>2004</i>	<i>2005</i>
<b>Rugged</b>	<b>7.46</b>	<b>9.32</b>	<b>7.37</b>
X-TRA-3	8.25	9.26	7.37
Cooper	7.49	9.14	7.44
<b>Rebel</b>	<b>7.53</b>	<b>9.15</b>	<b>7.35</b>
Plumas	7.67	8.65	7.34
6420	7.70	9.18	7.29
Hybri-Force 420 wet	7.84	9.00	7.27
WL 319HQ	7.77	8.99	7.07
Ladak DL	7.11	8.72	7.07
Shaw	7.44	8.72	6.94
Hybri-Force 400	7.54	8.71	6.88
Wrangler	7.03	7.42	6.77
AmeriStand 403T	7.90	8.88	6.76
Ladak 65	5.97	7.45	6.29
<b>Mean</b>	<b>7.45</b>	<b>8.83</b>	<b>7.09</b>
<b>LSD (0.05)</b>	<b>0.48</b>	<b>0.56</b>	<b>0.64</b>
<b>CV%</b>	<b>4.5</b>	<b>4.4</b>	<b>6.3</b>

# Ohio

Ohio, North Baltimore, Sown 4-19-2004

<i>Variety</i>	<i>21-Jun</i>	<i>17-Aug</i>	<i>Total 2004</i>
<i>Released Cultivars</i>	--- Tons Dry Matter/Acre ---		
<b>Rugged</b>	<b>0.73</b>	<b>1.20</b>	<b>1.93</b>
DKA 42-15	0.68	1.22	1.90
LegenDairy 5.0	0.59	1.26	1.85
Nova	0.54	1.15	1.69
Pioneer brand 54V46	0.67	0.98	1.65
WL 335 HQ	0.60	1.02	1.62
HybriForce 420/wet	0.54	1.08	1.61
Vernal	0.54	1.05	1.59
<i>Experimental Strains:</i>			
VL02*	0.62	1.06	1.67
Mean	0.66	1.20	1.86
Lsd (0.05)	0.26	0.29	0.44
CV %	27.40	16.90	16.50
MCV	38.9	24.1	23.4
LSR	88.8	77.8	79.0

# WISCONSIN

University of Wisconsin-Department of Agronomy  
Arlington, Columbia County, Agricultural Research Station  
Sown April 2003

VARIETIES	2004 Total	Seeding Year Total	2-Yr Total
<b>REBEL</b>	<b>7.53</b>	<b>2.43</b>	<b>9.96</b>
6400HT	7.51	2.36	9.87
NOTICE II	7.49	2.28	9.77
FSG 406	7.37	2.40	9.77
<b>RUGGED</b>	<b>7.29</b>	<b>2.42</b>	<b>9.71</b>
ROOT 66	7.19	2.33	9.52
VERNAL	7.11	2.33	9.44
PROLIFIC	7.11	2.32	9.43
A 30-06	6.89	2.27	9.16
Mean	7.62	2.51	
LSD 5%	0.59	0.32	
CV%	5.5	9.0	

# SOUTH DAKOTA

Beresford, Clay County, Southeast Research Farm  
Planted 29 April 2003, RCB with 6 replicates

Entry	2003 - Tons DM/Acre		
	14-Jul	31-Aug	Total
6420	1.18	1.53	2.72
Bullseye	1.42	1.27	2.68
Rugged	1.35	1.28	2.62
Hybriforce-420/Wet	1.25	1.27	2.52
Gold Rush 747	1.22	1.28	2.50
A 30-06	1.23	1.25	2.48
Alfastar II	1.35	1.15	2.48
Rebel	1.30	1.17	2.48
FSG 406	1.18	1.28	2.43
54V46	1.22	1.20	2.42
Husky Supreme	1.27	1.15	2.42
Journey Brand 204	1.18	1.20	2.40
Extreme	1.23	1.15	2.37
54Q25	1.23	1.13	2.35
Evermore	1.37	0.95	2.33
420	1.13	1.17	2.32
FSG 505	1.22	1.05	2.30
WL 319HQ	1.20	1.08	2.28
Vernal	1.13	1.15	2.25
FSG 351	1.03	1.22	2.23
Notice II	1.15	1.05	2.23
WL 357HQ	1.13	1.10	2.23
4500	1.17	1.05	2.18
Somerset	1.12	1.05	2.17
Abundance	0.98	1.07	2.03
Grand mean	1.21	1.17	2.38
CV (%)	18.1	21.1	14.6