

**2003 3-Cut Alfalfa Variety Trial
2004-2007 Results
Preliminary Final Report**

**Central Oregon Agricultural Research Center
Powell Butte, Oregon**

<http://oregonstate.edu/dept/coarc/index.php>

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NOTE (Last Updated 02/22/2008): The 2004 data has been corrected from the previous posting of results in 2005. We apologize for any inconvenience this may have caused.

Irrigation is done with 30 x 40 foot spacing (9/64 inch size Nelson rotating wind fighter nozzles) and we have experienced no irrigation problems in 2004-2006; we did have a couple of partially plugged nozzles on 2nd cutting in 2007.

We experienced minor problems with voles and gophers in 2005 and have controlled voles and pocket gophers through 2007. We used bait stations and traps,

Deer have done some minor grazing on the plots in the early-mid spring time period and have done some moderate grazing on last cutting in the Fall in 2004 and 2005. We have also experienced some Elk grazing on this trial in the Fall of 2004 and 2005. We had very little deer and elk grazing damage in 2006. We had some Deer and Elk grazing in 2007.

We will be adding some water use information to this data in the near future, Yield produced from actual irrigation and a comparison to Agrimimet crop water use prediction.

Table 1. Fall dormancy, winter survival index, disease, insect, and nematode pest resistance ratings and other trait ratings for the alfalfa varieties planted in August, 2003 at the COARC, Powell Butte, Oregon.

#	Variety	FD	WS	BW	VW	FW	An	PRR	SAA	PA	BAA	SN	APH1	APH2	SRKN	NRKN	RLN	PL	MLE	GT
39	Resis																			
38	Grimm	1/2		S																
52	Spredor III	1		HR	MR	HR	R	MR	S	MR		MR	S							
40	Iroquois	2	H	HR	S	MR	LR					LR								LR
17	Ladak	2	VH	LR				S												
24	Ladak 65	2	H	R		LR	LR	S				LR								S
23	Ranger	2	H	LR	S	MR		S	S	S		S								S
18	Vernal	2		R		MR														MR
22	53V08	3	2	HR	HR	HR	HR	HR	R	HR	MR	HR	LR							HR
9	Cooper	3		HR	R		R	R	MR	R		R	MR							R
26	DK 33-16	3	1	HR	HR	HR	HR	HR	R	R			HR							H
45	FSG 351	3	2	HR	R	HR	R	HR	R	HR	R	R	R							HR
42	Ladak Plus	3		HR	MR	HR	LR	R		MR		R	MR							HR
2	LegenDairy 5.0	3	2	HR	HR	HR	HR	HR	R	R		MR	HR							R
46	Multi 775	3	2	HR	R	HR	R	R		MR			LR							H
20	Perry	3	H	R			LR	S	MR	R										
10	Shaw	3		HR	MR		MR	R	R	R		MR								HR
15	Surpass	3	3	HR	R	HR	MR	R		R										
32	54Q25	4		HR	HR	HR	HR	HR	R	R		HR	R							HR
30	Amerigraze 401+Z	4	2	HR	HR	HR	HR	HR		R		R	R							
31	Ameristand 403T	4	2	HR	HR	HR	HR	HR	MR	R		MR	HR	R						X
27	DK 42-15	4	1	HR	HR	HR	HR	HR	R	HR		R	HR							H
48	Multi 777	4	2	R	R	HR	MR	R		MR			MR							H
1	Plumas	4	2	HR	R	HR	HR	HR	R	R		HR	R							MR
29	Robust T&N	4		R	HR	HR	HR	HR	R	HR	MR	HR	MR							R
41	Robust T&N (Treat)	4		R	HR	HR	HR	HR	R	HR	MR	HR	MR							R
28	ST 9429	4		HR	R	HR	HR	HR	R	R	HR	R	HR							H
47	Trophy	4	2	R	R	HR	R	HR		HR			R							
6	WL 327	4		HR	R	HR	HR	HR	R	R	HR	R	HR							
25	DKA50-18	5	2	HR	HR	HR	HR	HR	R	R		R	HR							H
12	Dura 512	5		HR	R	HR	HR	HR	R	R	HR	R	R							H
36	Winema	5		MR	LR	HR		LR	R		HR	R								
16	Lahontan	6		MR	LR		LR		MR	LR		R								
50	AmeriLeaf 721	7		R	R	HR	HR	HR	HR	R	MR	MR								R
51	Ameristand 802	8		HR	HR	HR	R	HR	HR	HR	HR	R	R							HR

Fall Dormancy Ratings (FD): 1 = very dormant, 11 = Very Non Dormant

Winter Survival Ratings (WS): 1 = Superior, 2 = Very Good, 3 = Good, 4 = Moderate, 5 = Low, 6 = Non Winter Hardy
(H = High, and VH = Very High are old ratings from another source)

Resistance ratings: S = Susceptible (0-5% plants), LR = Low Resistance (6-14% plants), MR = Moderate Resistance (15-29% plants), R = Resistance (30-50% plants), HR = High Resistance (>50% plants).

BW = Bacterial Wilt, VW = Verticillium Wilt, FW = Fusarium Wilt, AN = Anthracnose Race 1, PRR = Phytophthora Root Rot, SAA = Spotted Alfalfa Aphid, PA = Pea Aphid, Blue Alfalfa Aphid, SN = Stem Nematode, APH1 = Aphanomyces Race 1, APH2 = Aphanomyces Race 2, SRKN = Southern Root Knot Nematode, NRKN = Northern Root Knot Nematode, RLN = Root Lesion Nematode, PL = Potato Leaf Hopper, MLE = Multi-Foliolate Expression (H = high), GT = Continuous Grazing Tolerance.

Table 2. Plant height (cm.) results for the alfalfa varieties planted on August 19, 2003 at the COARC, Powell Butte, Oregon, and measured on October 23, 2003.

#	Variety	FD	Plant Height (cm.)
51	Ameristand 802 ¹	8	18.8
50	AmeriLeaf 721	7	15.3
41	Robust T&N (Treat)	4	14.5
16	Lahontan	6	14.0
1	Plumas	4	13.8
36	Winema	5	13.0
10	Shaw	3	12.0
17	Ladak	2	11.8
32	54Q25	4	11.5
45	FSG 351	3	11.3
6	WL 327	4	11.0
52	Spredor III	1	11.0
15	Surpass	3	10.8
28	ST 9429	4	10.8
42	Ladak Plus	3	10.8
9	Cooper	3	10.5
22	53V08	3	10.3
39	Resis		10.3
29	Robust T&N	4	9.8
40	Iroquois	2	9.8
20	Perry	3	9.5
38	Grimm	1/2	9.5
12	Dura 512	5	9.3
30	Amerigraze 401+Z	4	9.3
25	DKA50-18	5	8.8
26	DK 33-16	3	8.8
27	DK 42-15	4	8.8
46	Multi 775	3	8.8
47	Trophy	4	8.8
24	Ladak 65	2	8.5
2	LegenDairy 5.0	3	8.3
18	Vernal	2	8.0
31	Ameristand 403T	4	7.8
48	Multi 777	4	7.5
23	Ranger	2	7.3
	Mean		10.5
	PLSD 0.01		5.8
	PLSD 0.05		4.4
	PLSD 0.10		3.7
	CV %		29.5
	Prob. > F		0.0002

2.54 cm = 1 inch

Table 3. 2004-2007 yield results of the alfalfa variety trial planted in August, 2003 at the COARC, Powell Butte, Oregon.

#	Variety	FD	2004 Yield (t/ac)	2005 Yield (t/ac)	2-Yr Total (t/ac)	2006 Yield (t/ac)	3-Yr Total (t/ac)	2007 Yield (t/ac)	4 Year Total (t/ac)	4-Yr % of Mean
12	Dura 512	5	8.72	8.39	17.11	7.62	24.73	7.25	31.98	106.6
22	53V08	3	8.54	7.71	16.25	8.23	24.48	7.11	31.60	105.3
39	Resis		8.69	7.99	16.68	7.88	24.56	6.91	31.47	104.9
15	Surpass	3	8.98	7.69	16.66	7.71	24.37	7.09	31.46	104.8
45	FSG 351	3	8.60	7.45	16.05	7.73	23.78	7.55	31.32	104.4
32	54Q25	4	8.41	7.57	15.97	8.23	24.21	7.08	31.28	104.2
10	Shaw	3	8.63	8.05	16.69	7.54	24.23	6.98	31.21	104.0
9	Cooper	3	8.82	8.04	16.86	7.59	24.45	6.69	31.14	103.8
6	WL 327	4	8.85	7.82	16.68	7.43	24.10	6.96	31.06	103.5
40	Iroquois	2	8.55	7.46	16.01	7.79	23.80	7.18	30.98	103.2
20	Perry	3	8.43	7.35	15.78	7.77	23.55	7.14	30.94	103.1
1	Plumas	4	8.50	7.85	16.35	7.63	23.97	6.95	30.93	103.1
27	DK 42-15	4	8.01	7.55	15.55	7.90	23.45	7.30	30.75	102.5
29	Robust T&N	4	8.21	7.92	16.14	7.67	23.81	6.82	30.64	102.1
25	DKA50-18	5	8.25	7.13	15.38	8.04	23.42	7.07	30.49	101.6
2	LegenDairy 5.0	3	8.11	7.27	15.39	7.86	23.24	7.23	30.48	101.6
52	Spredor III	1	8.28	7.77	16.05	7.49	23.54	6.94	30.47	101.5
48	Multi 777	4	8.40	7.56	15.95	7.41	23.36	7.04	30.40	101.3
47	Trophy	4	8.80	7.22	16.02	7.41	23.42	6.97	30.39	101.3
28	ST 9429	4	8.09	7.45	15.54	7.56	23.10	7.15	30.25	100.8
46	Multi 775	3	8.18	7.56	15.74	7.39	23.13	7.06	30.20	100.6
42	Ladak Plus	3	8.06	7.48	15.54	7.89	23.43	6.73	30.15	100.5
38	Grimm	1/2	8.21	7.28	15.49	7.45	22.94	7.13	30.07	100.2
41	Robust T&N (Treat)	4	8.41	7.48	15.90	7.46	23.36	6.63	29.99	99.9
30	Amerigraze 401+Z	4	8.04	7.50	15.54	7.43	22.97	6.89	29.86	99.5
18	Vernal	2	8.04	7.41	15.46	7.24	22.70	6.93	29.63	98.7
31	Ameristand 403T	4	8.10	7.51	15.61	6.74	22.35	6.77	29.12	97.0
26	DK 33-16	3	7.70	7.17	14.87	7.42	22.28	6.64	28.93	96.4
36	Winema	5	7.84	7.42	15.26	7.05	22.31	6.62	28.93	96.4
17	Ladak	2	7.71	7.34	15.05	6.75	21.79	6.80	28.60	95.3
23	Ranger	2	7.72	6.99	14.71	6.49	21.20	6.93	28.13	93.7
24	Ladak 65	2	7.76	7.09	14.85	6.73	21.58	6.44	28.02	93.4
50	AmeriLeaf 721	7	7.84	6.80	14.64	6.88	21.52	6.30	27.82	92.7
16	Lahontan	6	7.18	6.86	14.04	6.87	20.90	5.82	26.72	89.0
51	Ameristand 802 ¹	8	6.83	6.46	13.30	6.14	19.44	5.63	25.07	83.5
	Mean		8.21	7.47	15.69	7.44	23.13	6.88	30.01	100.0
	PLSD 0.01		0.80	0.67	1.00	0.96	1.60	0.71	1.95	
	PLSD 0.05		0.61	0.50	0.79	0.73	1.21	0.53	1.47	
	PLSD 0.10		0.51	0.42	0.66	0.61	1.01	0.45	1.23	
	CV %		5.3	4.8	3.6	7.0	3.7	5.5	3.5	
	Prob. > F		0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	
	% of Total Yield		52.2	47.8	100.0					

¹ Suffered considerable winter kill in 2003/2004. Yield is presented on a dry matter basis.

Table 4. 2004-2007 individual year percent of mean and yield rank results of the alfalfa variety trial planted in August, 2003 at the COARC, Powell Butte, Oregon.

#	Variety	FD	2004 % of Mean	2004 Rank	2-Yr. % of Mean (%)	2-Yr. Total Rank	3-Yr % of Mean	3 Year Total Rank	4 Year Total % of Mean	4 Year Total Rank
12	Dura 512	5	106.2	5	109.1	1	106.9	1	106.6	1
22	53V08	3	104.0	10	103.6	8	105.8	3	105.3	2
39	Resis		105.8	6	106.4	3	106.4	2	104.9	3
15	Surpass	3	109.4	1	106.3	5	105.4	5	104.8	4
45	FSG 351	3	104.8	8	102.4	10	102.8	12	104.4	5
32	54Q25	4	102.4	12	101.9	14	104.7	7	104.2	6
10	Shaw	3	105.1	7	106.4	4	104.8	6	104.0	7
9	Cooper	3	107.4	3	107.5	2	105.7	4	103.8	8
6	WL 327	4	107.8	2	106.3	6	104.2	8	103.5	9
40	Iroquois	2	104.1	9	102.1	13	102.9	11	103.2	10
1	Plumas	4	103.5	11	104.1	7	103.6	9	103.1	11
20	Perry	3	102.3	14	100.6	17	101.8	14	103.1	12
27	DK 42-15	4	97.6	27	99.2	20	101.4	15	102.5	13
29	Robust T&N	4	100.0	18	102.9	9	102.9	10	102.1	14
2	LegenDairy 5.0	3	98.8	21	98.1	27	100.9	21	101.6	15
25	DKA50-18	5	100.5	17	98.1	26	101.3	18	101.6	16
52	Spredor III	1	100.9	16	102.4	11	101.8	13	101.5	17
47	Trophy	4	107.2	4	102.2	12	101.3	16	101.3	18
48	Multi 777	4	102.3	15	101.8	15	101.0	19	101.3	19
28	ST 9429	4	98.5	23	99.1	21	99.9	23	100.8	20
46	Multi 775	3	99.6	20	100.4	18	100.0	22	100.6	21
42	Ladak Plus	3	98.2	24	99.1	22	101.3	17	100.5	22
38	Grimm	1/2	100.0	19	98.8	24	99.2	25	100.2	23
41	Robust T&N (Treat)	4	102.4	136	101.3	16	101.0	20	99.9	24
30	Amerigraze 401+Z	4	97.9	26	99.1	23	99.3	24	99.5	25
18	Vernal	2	97.9	25	98.5	25	98.1	26	98.7	26
31	Ameristand 403T	4	98.7	22	99.6	19	96.6	27	97.0	27
26	DK 33-16	3	90.1	33	94.8	30	96.3	29	96.4	28
36	Winema	5	95.5	28	97.3	28	96.5	28	96.4	29
17	Ladak	2	90.3	32	96.0	29	94.2	30	95.3	30
23	Ranger	2	94.0	31	93.8	32	91.7	33	93.7	31
24	Ladak 65	2	94.5	30	94.7	31	93.3	31	93.4	32
50	AmeriLeaf 721	7	95.5	29	93.4	32	93.0	32	92.7	33
16	Lahontan	6	87.5	34	89.5	34	90.4	34	89.0	34
51	Ameristand 802 ¹	8	83.2	35	84.8	35	84.0	35	83.5	35
	Mean		100.0		100.0		100.0		100.0	

¹ Suffered considerable winter kill in 2003/2004. Yield is presented on a dry matter basis (oven-dried at 138 degrees F).

Table 5. 2004-2007 percent of mean yield and rank results of the alfalfa variety trial planted in August, 2003 at the COARC, Powell Butte, Oregon.

#	Variety	FD	2004		2005		2006		2007		4	4
			% of Mean	2004 Rank	% of Mean	2005 Rank	% of Mean	2006 Rank	% Of Mean	2007 Rank	Year Total % of Mean	Year Total Rank
12	Dura 512	5	106.2	5	112.3	1	102.4	15	105.4	3	106.6	1
22	53V08	3	104.0	10	103.2	9	110.6	1	103.3	9	105.3	2
39	Resis		105.8	6	107.0	4	105.9	7	100.4	22	104.9	3
15	Surpass	3	109.4	1	102.9	10	103.6	12	103.1	10	104.8	4
45	FSG 351	3	104.8	8	99.7	20	103.9	11	109.7	1	104.4	5
32	54Q25	4	102.4	12	101.3	11	110.6	2	102.9	11	104.2	6
10	Shaw	3	105.1	7	107.8	2	101.3	17	101.5	15	104.0	7
9	Cooper	3	107.4	3	107.6	3	102.0	16	97.2	28	103.8	8
6	WL 327	4	107.8	2	104.7	7	99.9	21	101.2	17	103.5	9
40	Iroquois	2	104.1	9	99.9	19	104.7	9	104.4	5	103.2	10
1	Plumas	4	103.5	11	105.1	6	102.5	14	101.0	18	103.1	11
20	Perry	3	102.3	14	98.4	22	104.4	10	103.8	7	103.1	12
27	DK 42-15	4	97.6	27	101.1	14	106.2	4	106.1	2	102.5	13
29	Robust T&N	4	100.0	18	106.0	5	103.1	13	99.1	24	102.1	14
2	LegenDairy 5.0	3	98.8	21	97.3	25	105.6	8	105.1	4	101.6	15
25	DKA50-18	5	100.5	17	95.4	28	108.1	3	102.8	12	101.6	16
52	Spredor III	1	100.9	16	104.0	8	100.7	18	100.9	19	101.5	17
47	Trophy	4	107.2	4	96.7	26	99.6	25	101.3	16	101.3	18
48	Multi 777	4	102.3	15	101.2	12	99.6	24	102.3	14	101.3	19
28	ST 9429	4	98.5	23	99.7	21	106.2	5	103.9	6	100.8	20
46	Multi 775	3	99.6	20	101.2	13	99.3	26	102.6	13	100.6	21
42	Ladak Plus	3	98.2	24	100.1	17	106.0	6	97.8	27	100.5	22
38	Grimm	1/2	100.0	19	97.5	24	100.1	20	103.6	8	100.2	23
41	Robust T&N (Treat)	4	102.4	16	100.1	18	100.3	19	96.4	30	99.9	24
30	Amerigraze 401+Z	4	97.9	26	100.4	16	99.9	22	100.1	23	99.5	25
18	Vernal	2	97.9	25	95.2	29	97.3	27	100.7	20	98.7	26
31	Ameristand 403T	4	98.7	22	100.5	15	90.6	32	98.4	26	97.0	27
26	DK 33-16	3	90.1	33	96.0	27	99.7	23	96.5	29	96.4	28
36	Winema	5	95.5	28	93.3	32	94.8	28	96.2	31	96.4	29
17	Ladak	2	90.3	32	98.3	23	90.7	31	98.8	25	95.3	30
23	Ranger	2	94.0	31	93.6	31	87.2	34	100.7	21	93.7	31
24	Ladak 65	2	94.5	30	94.9	30	90.5	33	93.6	32	93.4	32
50	AmeriLeaf 721	7	95.5	29	91.0	34	92.5	29	91.6	33	92.7	33
16	Lahontan	6	87.5	34	91.8	33	92.3	30	84.6	34	89.0	34
51	Ameristand 802 ¹	8	83.2	35	86.5	35	82.5	35	81.8	35	83.5	35
Mean			100.0		100.0		100.0		100.0		100.0	

¹ Suffered considerable winter kill in 2003/2004. Yield is presented on a dry matter basis.

Table 6. 2004-2007 Cuttings 1-4 total yield results of the alfalfa variety trial planted in August, 2003 at the COARC, Powell Butte, Oregon.

#	Variety	FD	Cut-1 Yield (t/ac)	Cut-1 % of It's Total	Cut-2 Yield (t/ac)	Cut-2 % of It's Total	Cut-3 Yield (t/ac)	Cut-3 % of It's Total	Total Yield (t/ac)
12	Dura 512	5	12.02	37.6	11.09	34.7	8.86	27.7	31.98
22	53V08	3	12.53	39.7	11.03	34.9	8.04	25.4	31.60
39	Resis		11.93	37.9	11.19	35.6	8.35	26.5	31.47
15	Surpass	3	12.81	40.7	10.88	34.6	7.77	24.7	31.46
45	FSG 351	3	12.17	38.9	10.73	34.3	8.43	26.9	31.32
32	54Q25	4	12.13	38.8	10.66	34.1	8.50	27.2	31.28
10	Shaw	3	12.39	39.7	10.83	34.7	7.99	25.6	31.21
9	Cooper	3	12.25	39.3	10.65	34.2	8.25	26.5	31.14
6	WL 327	4	11.93	38.4	10.93	35.2	8.20	26.4	31.06
40	Iroquois	2	12.47	40.3	10.68	34.5	7.83	25.3	30.98
20	Perry	3	12.39	40.0	10.56	34.1	7.75	25.0	30.94
1	Plumas	4	12.71	41.1	10.49	33.9	7.72	25.0	30.93
27	DK 42-15	4	12.44	40.5	10.08	32.8	8.23	26.8	30.75
29	Robust T&N	4	11.28	36.8	10.97	35.8	8.39	27.4	30.64
25	DKA50-18	5	12.45	40.8	10.07	33.0	7.98	26.2	30.49
2	LegenDairy 5.0	3	12.29	40.3	10.16	33.3	8.03	26.3	30.48
52	Spredor III	1	12.72	41.7	10.24	33.6	7.51	24.6	30.47
48	Multi 777	4	11.70	38.5	10.61	34.9	8.10	26.6	30.40
47	Trophy	4	12.22	40.2	10.38	34.2	7.79	25.6	30.39
28	ST 9429	4	11.97	39.6	10.48	34.6	7.79	25.8	30.25
46	Multi 775	3	11.89	39.4	10.64	35.2	7.68	25.4	30.20
42	Ladak Plus	3	11.71	38.8	10.34	34.3	8.10	26.9	30.15
38	Grimm	1/2	11.73	39.0	10.68	35.5	7.67	25.5	30.07
41	Robust T&N (Treat)	4	11.07	36.9	10.96	36.5	7.96	26.5	29.99
30	Amerigraze 401+Z	4	12.05	40.4	10.15	34.0	7.66	25.7	29.86
18	Vernal	2	11.86	40.0	10.61	35.8	7.15	24.1	29.63
31	Ameristand 403T	4	11.72	40.2	10.30	35.4	7.09	24.3	29.12
26	DK 33-16	3	11.66	40.3	9.65	33.4	7.61	26.3	28.93
36	Winema	5	11.14	38.5	10.24	35.4	7.55	26.1	28.93
17	Ladak	2	11.61	40.6	9.91	34.7	7.08	24.8	28.60
23	Ranger	2	12.20	43.4	9.67	34.4	6.26	22.2	28.13
24	Ladak 65	2	10.96	39.1	9.90	35.3	7.16	25.6	28.02
50	AmeriLeaf 721	7	10.11	36.3	10.04	36.1	7.68	27.6	27.82
16	Lahontan	6	9.74	36.5	9.57	35.8	7.41	27.7	26.72
51	Ameristand 802 ¹	8	8.22	32.8	9.56	38.1	7.29	29.1	25.07
	Mean		11.78	39.3	10.43	34.8	7.80	26.0	30.01
	PLSD 0.01		1.03		0.85		0.99		1.95
	PLSD 0.05		0.78		0.65		0.75		1.47
	PLSD 0.10		0.65		0.54		0.62		1.23
	CV %		4.7		4.4		6.8		3.5
	Prob. > F		0.0057		0.0033		0.0001		0.0001
	% of Total Yield		39.3		34.8		26.0		100.0

1 Suffered considerable winter kill in 2003/2004. Yield is presented on a dry matter basis.

Table 7. 2004 yield results of the alfalfa variety trial planted in August, 2003 at the COARC, Powell Butte, Oregon.

#	Variety	FD	1 st Cut Yield (t/ac)	2 nd Cut Yield (t/ac)	3 rd Cut Yield (t/ac)	Total Yield (t/ac)	% of Mean (%)
15	Surpass	3	4.04	2.81	2.12	8.98	109.4
6	WL 327	4	3.63	3.02	2.20	8.85	107.8
9	Cooper	3	3.68	2.85	2.29	8.82	107.4
47	Trophy	4	3.78	2.92	2.10	8.80	107.2
12	Dura 512	5	3.65	2.92	2.16	8.72	106.2
39	Resis		3.59	2.90	2.19	8.69	105.8
10	Shaw	3	3.60	2.80	2.23	8.63	105.1
45	FSG 351	3	3.54	2.93	2.13	8.60	104.8
40	Iroquois	2	3.63	2.79	2.13	8.55	104.1
22	53V08	3	3.56	2.93	2.05	8.54	104.0
1	Plumas	4	3.62	2.68	2.20	8.50	103.5
20	Perry	3	3.48	2.84	2.11	8.43	102.3
32	54Q25	4	3.47	2.81	2.12	8.41	102.4
41	Robust T&N (Treat)	4	3.39	3.00	2.03	8.41	102.4
48	Multi 777	4	3.65	2.72	2.03	8.40	102.3
52	Spredor III	1	3.64	2.68	1.96	8.28	100.9
25	DKA50-18	5	3.43	2.83	1.99	8.25	100.5
29	Robust T&N	4	3.16	2.82	2.23	8.21	100.0
38	Grimm	1/2	3.46	2.69	2.06	8.21	100.0
46	Multi 775	3	3.48	2.73	1.97	8.18	99.6
2	LegenDairy 5.0	3	3.54	2.61	1.95	8.11	98.8
31	Ameristand 403T	4	3.44	2.67	1.98	8.10	98.7
28	ST 9429	4	3.39	2.68	2.02	8.09	98.5
42	Ladak Plus	3	3.33	2.68	2.05	8.06	98.2
18	Vernal	2	3.46	2.66	1.93	8.04	97.9
30	Amerigraze 401+Z	4	3.50	2.60	1.94	8.04	97.9
27	DK 42-15	4	3.50	2.47	2.03	8.01	97.6
36	Winema	5	3.23	2.61	2.00	7.84	95.5
50	AmeriLeaf 721	7	3.12	2.69	2.02	7.84	95.5
24	Ladak 65	2	3.30	2.62	1.84	7.76	94.5
23	Ranger	2	3.59	2.46	1.66	7.72	94.0
17	Ladak	2	3.35	2.56	1.79	7.71	90.3
26	DK 33-16	3	3.22	2.66	1.82	7.70	90.1
16	Lahontan	6	2.82	2.40	1.96	7.18	87.5
51	Ameristand 802 ¹	8	2.29	2.53	2.02	6.83	83.2
	Mean		3.45	2.73	2.04	8.21	100.0
	PLSD 0.01		0.54	0.40	0.29	0.80	
	PLSD 0.05		0.41	0.30	0.22	0.61	
	PLSD 0.10		0.34	0.25	0.18	0.51	
	CV %		8.5	7.8	7.7	5.3	
	Prob. > F		0.0001	0.0028	0.0001	0.0001	
	Harvest Date		6/14	7/22	9/8		
	% of Total Yield		42.0	33.3	24.7	100.0	

¹ Suffered considerable winter kill in 2003/2004. Yield is presented on a dry matter basis (oven-dried at 138 degrees F).

Table 8. 2004 first-cut yield results of the alfalfa variety trial planted in August, 2003 at the COARC, Powell Butte, Oregon.

#	Variety	FD	Yield (t/ac)	% of Mean	Dry Matter (%)	Moisture (%)	Lodge (%)
15	Surpass	3	4.04	117.1	29.9	70.1	91
47	Trophy	4	3.78	109.6	30.9	69.1	78
9	Cooper	3	3.68	106.7	29.6	70.4	23
12	Dura 512	5	3.65	105.8	25.5	74.5	67
48	Multi 777	4	3.65	105.8	31.2	68.8	31
52	Spredor III	1	3.64	105.5	28.9	71.1	61
6	WL 327	4	3.63	105.2	28.7	71.3	70
40	Iroquois	2	3.63	105.2	29.9	70.1	61
1	Plumas	4	3.62	104.9	28.0	72.0	58
10	Shaw	3	3.60	104.3	27.6	72.4	64
23	Ranger	2	3.59	104.1	26.5	73.5	43
39	Resis		3.59	104.1	31.2	68.8	69
22	53V08	3	3.56	103.2	30.0	70.0	70
2	LegenDairy 5.0	3	3.54	102.6	28.6	71.4	84
45	FSG 351	3	3.54	102.6	27.3	72.7	89
27	DK 42-15	4	3.50	101.4	28.7	71.3	76
30	Amerigraze 401+Z	4	3.50	101.4	29.4	70.6	79
20	Perry	3	3.48	100.9	29.3	70.7	41
46	Multi 775	3	3.48	100.9	30.3	69.7	44
32	54Q25	4	3.47	100.6	28.8	71.2	73
18	Vernal	2	3.46	100.3	30.9	69.1	76
38	Grimm	1/2	3.46	100.3	30.3	69.7	59
31	Ameristand 403T	4	3.44	99.7	28.3	71.7	65
25	DKA50-18	5	3.43	99.4	28.9	71.1	88
28	ST 9429	4	3.39	98.3	29.2	70.8	41
41	Robust T&N (Treat)	5	3.39	98.3	30.3	69.7	24
17	Ladak	2	3.35	97.1	29.8	70.2	39
42	Ladak Plus	3	3.33	96.5	29.1	70.9	44
24	Ladak 65	2	3.30	95.7	28.0	72.0	74
36	Winema	5	3.23	93.6	28.8	71.2	66
26	DK 33-16	3	3.22	93.3	28.3	71.7	93
29	Robust T&N	5	3.16	91.6	29.3	70.7	44
50	AmeriLeaf 721	7	3.12	90.4	28.9	71.1	33
16	Lahontan	6	2.82	81.7	27.5	72.5	46
51	Ameristand 802 ¹	8	2.29	66.4	27.9	72.1	0
	Mean		3.45	100.0	29.0	71.0	58
	PLSD 0.01		0.54		NS	NS	47.2
	PLSD 0.05		0.41		2.9	2.9	35.6
	PLSD 0.10		0.34		2.4	2.4	29.8
	CV %		8.5		7.0	2.9	43.2
	Prob. > F		0.0001		0.0430	0.0430	0.0001
	Harvest Date		6/14				

¹ suffered considerable winter kill in 2003/2004. Yield is presented on a dry matter basis (oven-dried at 138 degrees F).

Table 9. 2004 2nd cut yield results of the alfalfa variety trial planted in August, 2003 at COARC, Powell Butte, Oregon.

#	Variety	FD	Yield (t/ac)	% of Mean	Dry Matter (%)	Moist (%)	Stem Size (1-3)
6	WL 327	4	3.02	110.6	18.0	82.0	2.3
41	Robust T&N (Treat)	4	3.00	109.9	19.2	80.8	2.4
22	53V08	3	2.93	107.3	18.3	81.7	1.5
45	FSG 351	3	2.93	107.3	18.8	81.2	1.9
12	Dura 512	5	2.92	107.0	18.0	82.0	2.4
47	Trophy	4	2.92	107.0	17.9	82.1	1.9
39	Resis		2.90	106.2	18.5	81.5	2.4
9	Cooper	3	2.85	104.4	18.1	81.9	2.4
20	Perry	3	2.84	104.0	18.7	81.3	2.0
25	DKA50-18	5	2.83	103.7	18.9	81.1	2.1
29	Robust T&N	4	2.82	103.3	19.4	80.6	2.3
15	Surpass	3	2.81	102.9	17.9	82.1	2.0
32	54Q25	4	2.81	102.9	18.3	81.7	1.8
10	Shaw	3	2.80	102.6	17.5	82.5	2.4
40	Iroquois	2	2.79	102.2	19.0	81.0	1.8
46	Multi 775	3	2.73	100.0	18.2	81.8	2.0
48	Multi 777	4	2.72	99.6	18.0	82.0	2.5
38	Grimm	1/2	2.69	98.5	19.5	80.5	1.5
50	AmeriLeaf 721	7	2.69	98.5	18.0	82.0	1.9
1	Plumas	4	2.68	98.2	17.5	82.5	2.3
28	ST 9429	4	2.68	98.2	17.2	82.8	2.1
42	Ladak Plus	3	2.68	98.2	17.9	82.1	1.9
52	Spredor III	1	2.68	98.2	19.1	80.9	1.3
31	Ameristand 403T	4	2.67	97.8	18.4	81.6	1.4
18	Vernal	2	2.66	97.4	17.5	82.5	1.4
26	DK 33-16	3	2.66	97.4	17.8	82.2	2.1
24	Ladak 65	2	2.62	96.0	18.7	81.3	1.6
2	LegenDairy 5.0	3	2.61	95.6	17.9	82.1	2.4
36	Winema	5	2.61	95.6	19.4	80.6	2.1
30	Amerigraze 401+Z	4	2.60	95.2	17.8	82.2	1.5
17	Ladak	2	2.56	93.8	18.7	81.3	1.8
51	Ameristand 802 ¹	8	2.53	92.7	19.1	80.9	2.3
27	DK 42-15	4	2.47	90.5	16.7	83.3	1.8
23	Ranger	2	2.46	90.1	17.7	82.3	1.6
16	Lahontan	6	2.40	87.9	18.1	81.9	1.8
	Mean		2.73		18.3	81.7	2.0
	PLSD 0.01		0.40		NS	NS	NS
	PLSD 0.05		0.30		NS	NS	NS
	PLSD 0.10		0.25		1.3	1.3	0.7
	CV %		7.8		6.2	1.4	28.7
	Prob. > F		0.0028		0.0980	0.0980	0.0541
	Harvest Date		7/22				

¹ suffered considerable winter kill in 2003/2004. Yield presented on a dry matter basis (oven-dried at 138 degrees F)

Stem Size: subjective scoring of 1 = small, 2 = medium, 3 = large

Table 10. 2004 third-cut yield results of the alfalfa variety trial planted in August, 2003 at the COARC, Powell Butte, Oregon.

#	Variety	FD	Yield (t/ac)	% of Mean	Dry Matter (%)	Moisture (%)	Stem Size (1-3)
9	Cooper	3	2.29	112.3	22.2	77.8	2.3
10	Shaw	3	2.23	109.3	21.2	78.8	1.9
29	Robust T&N	4	2.23	109.3	23.2	76.8	2.5
1	Plumas	4	2.20	107.8	22.0	78.0	2.8
6	WL 327	4	2.20	107.8	21.3	78.7	2.8
39	Resis		2.19	107.4	22.2	77.8	2.3
12	Dura 512	5	2.16	105.9	22.1	77.9	2.0
40	Iroquois	2	2.13	104.4	22.7	77.3	1.9
45	FSG 351	3	2.13	104.4	20.7	79.3	2.0
15	Surpass	3	2.12	103.9	22.4	77.6	1.9
32	54Q25	4	2.12	103.9	22.1	77.9	2.4
20	Perry	3	2.11	103.4	21.9	78.1	1.8
47	Trophy	4	2.10	102.9	20.4	79.6	2.3
38	Grimm	1/2	2.06	101.0	22.1	77.9	2.1
22	53V08	3	2.05	100.5	21.3	78.7	2.0
42	Ladak Plus	3	2.05	100.5	22.5	77.5	1.8
27	DK 42-15	4	2.03	99.5	20.8	79.2	1.8
41	Robust T&N (Treat)	4	2.03	99.5	22.0	78.0	2.4
48	M777	4	2.03	99.5	21.8	78.2	2.1
28	ST 9429	4	2.02	99.0	20.3	79.7	2.0
50	AmeriLeaf 721	7	2.02	99.0	21.8	78.2	2.4
51	Ameristand 802 ¹	8	2.02	99.0	23.2	76.8	2.5
36	Winema	5	2.00	98.0	22.6	77.4	2.0
25	DKA50-18	5	1.99	97.5	21.8	78.2	2.3
31	Ameristand 403T	4	1.98	97.1	21.2	78.8	1.8
46	Multi 775	3	1.97	96.6	21.3	78.7	2.3
16	Lahontan	6	1.96	96.0	22.7	77.3	2.4
52	Spredor III	1	1.96	96.0	21.7	78.3	2.0
2	LegenDairy 5.0	3	1.95	95.6	22.1	77.9	2.3
30	Amerigraze 401+Z	4	1.94	95.1	21.3	78.7	1.8
18	Vernal	2	1.93	94.6	21.5	78.5	1.5
24	Ladak 65	2	1.84	90.2	21.7	78.3	1.8
26	DK 33-16	3	1.82	89.2	21.9	78.1	1.8
17	Ladak	2	1.79	87.7	22.4	77.6	2.0
23	Ranger	2	1.66	81.4	21.3	78.7	1.0
	Mean		2.04	100.0	21.8	78.2	2.1
	PLSD 0.01		0.29		NS	NS	NS
	PLSD 0.05		0.22		1.5	1.5	0.7
	PLSD 0.10		0.18		1.2	1.2	0.6
	CV %		7.7		4.8	1.3	25.7
	Prob. > F		0.0001		0.0140	0.0140	0.0165
	Harvest Date		9/8				

¹ suffered considerable winter kill in 2003/2004. Yield presented on a dry matter basis (oven-dried at 138 degrees F).

Stem Size: subjective scoring of 1 = small, 2 = medium, 3 = large observation when taking moisture samples.

Table 11. 2005 yield results of the alfalfa variety trial planted in August, 2003 at the COARC, Powell Butte, Oregon.

#	Variety	FD	1 st Cut Yield (t/ac)	2 nd Cut Yield (t/ac)	3 rd Cut Yield (t/ac)	Total Yield (t/ac)	% of Mean (%)
12	Dura 512	5	3.26	2.67	2.45	8.39	112.3
10	Shaw	3	3.24	2.56	2.25	8.05	107.8
9	Cooper	3	3.16	2.60	2.29	8.04	107.6
39	Resis		3.06	2.68	2.25	7.99	107.0
29	Robust T&N	4	3.05	2.57	2.30	7.92	106.0
1	Plumas	4	3.33	2.54	1.98	7.85	105.1
6	WL 327	4	2.90	2.60	2.33	7.82	104.7
52	Spredor III	1	3.21	2.38	2.18	7.77	104.0
22	53V08	3	3.09	2.49	2.13	7.71	103.2
15	Surpass	3	3.15	2.44	2.10	7.69	102.9
32	54Q25	4	2.94	2.36	2.27	7.57	101.3
46	Multi 775	3	2.96	2.58	2.02	7.56	101.2
48	Multi 777	4	2.77	2.68	2.11	7.56	101.2
27	DK 42-15	4	3.10	2.36	2.08	7.55	101.1
31	Ameristand 403T	4	2.99	2.59	1.92	7.51	100.5
30	Amerigraze 401+Z	4	3.00	2.33	2.17	7.50	100.4
41	Robust T&N (Treat)	4	2.71	2.56	2.21	7.48	100.1
42	Ladak Plus	3	2.81	2.46	2.20	7.48	100.1
40	Iroquois	2	3.04	2.31	2.11	7.46	99.9
28	ST 9429	4	2.92	2.50	2.02	7.45	99.7
45	FSG 351	3	2.78	2.51	2.16	7.45	99.7
36	Winema	5	2.88	2.58	1.95	7.42	93.3
18	Vernal	2	2.90	2.50	2.01	7.41	95.2
20	Perry	3	3.00	2.43	1.92	7.35	98.4
17	Ladak	2	2.89	2.37	2.08	7.34	98.3
38	Grimm	1/2	2.94	2.36	1.97	7.28	97.5
2	LegenDairy 5.0	3	2.89	2.24	2.14	7.27	97.3
47	Trophy	4	2.77	2.40	2.05	7.22	96.7
26	DK 33-16	3	2.83	2.20	2.14	7.17	96.0
25	DKA50-18	5	2.86	2.24	2.03	7.13	95.4
24	Ladak 65	2	2.77	2.39	1.93	7.09	94.9
23	Ranger	2	2.86	2.31	1.81	6.99	93.6
16	Lahontan	6	2.55	2.30	2.00	6.86	91.8
50	AmeriLeaf 721	7	2.65	2.28	1.88	6.80	91.0
51	Ameristand 802 ¹	8	2.38	2.27	1.82	6.46	86.5
	Mean		2.93	2.45	2.09	7.47	--
	PLSD 0.01		0.42	0.32	0.35	0.67	
	PLSD 0.05		0.32	0.24	0.26	0.50	
	PLSD 0.10		0.27	0.20	0.22	0.42	
	CV %		7.7	7.1	8.9	4.8	
	Prob. > F		0.0001	0.0002	0.0002	0.0001	
	Harvest Date		6/8	7/24	9/8	--	
	% of Total Yield		39.2	32.8	28.0	100.0	

¹ Suffered considerable winter kill in 2003/2004. Yield is presented on a dry matter basis (oven-dried at 138 degrees F).

Table 12. 2005 first-cut yield results of the alfalfa variety trial planted in August, 2003 at the COARC, Powell Butte, Oregon.

#	Variety	FD	Yield (t/ac)	% of Mean	Dry Matter (%)	Moisture (%)	Height (in.)
1	Plumas	4	3.33	113.7	21.6	78.4	28
12	Dura 512	5	3.26	111.3	20.6	79.9	28
10	Shaw	3	3.24	110.6	21.0	79.0	28
52	Spredor III	1	3.21	109.6	22.2	77.8	28
9	Cooper	3	3.16	107.8	21.1	78.9	27
15	Surpass	3	3.15	107.5	22.0	78.0	27
27	DK 42-15	4	3.10	105.8	22.4	78.6	27
22	53V08	3	3.09	105.5	21.8	78.2	27
39	Resis		3.06	104.4	21.9	78.1	27
29	Robust T&N	5	3.05	104.1	22.2	77.8	25
40	Iroquois	2	3.04	103.8	22.5	77.5	26
20	Perry	3	3.00	102.4	22.9	77.1	27
30	Amerigraze 401+Z	4	3.00	102.4	21.8	78.2	25
31	Ameristand 403T	4	2.99	102.0	22.9	77.1	24
46	Multi 775	3	2.96	101.0	22.4	77.6	27
32	54Q25	4	2.94	100.3	22.2	77.8	25
38	Grimm	1/2	2.94	100.3	22.5	77.5	25
28	ST 9429	4	2.92	99.7	21.2	78.8	26
6	WL 327	4	2.90	99.0	21.6	78.4	27
18	Vernal	2	2.90	99.0	22.9	77.1	25
2	LegenDairy 5.0	3	2.89	98.6	22.0	78.0	25
17	Ladak	2	2.89	98.6	23.7	76.3	23
36	Winema	5	2.88	98.3	22.3	77.7	27
23	Ranger	2	2.86	97.6	22.0	78.0	25
25	DKA50-18	5	2.86	97.6	22.0	78.0	29
26	DK 33-16	3	2.83	96.6	22.1	77.9	25
42	Ladak Plus	3	2.81	95.9	22.2	77.6	26
45	FSG 351	3	2.78	94.9	21.3	78.7	26
24	Ladak 65	2	2.77	94.5	22.5	77.5	24
47	Trophy	4	2.77	94.5	20.9	79.1	26
48	Multi 777	4	2.77	94.5	21.9	78.1	26
41	Robust T&N (Treat)	5	2.71	92.5	21.6	78.4	26
50	AmeriLeaf 721	7	2.65	90.4	21.9	78.1	25
16	Lahontan	6	2.55	87.0	22.0	78.0	26
51	Ameristand 802 ¹	8	2.38	81.2	21.7	78.3	26
	Mean		2.93		22.0	78.0	26
	PLSD 0.01		0.42		NS	NS	3.2
	PLSD 0.05		0.32		1.5	1.5	2.4
	PLSD 0.10		0.27		1.2	1.2	2.0
	CV %		7.7		4.8	1.4	6.5
	Prob. > F		0.0001		0.0364	0.0364	0.0018
	Harvest Date		6/8				

¹ suffered considerable winter kill in 2003/2004. Yield is presented on a dry matter basis (oven-dried at 138 degrees F).

Table 13. 2005 2nd cut yield results of the alfalfa variety trial planted in August, 2003 at COARC, Powell Butte, Oregon.

#	Variety	FD	Yield (t/ac)	% of Mean	Dry Matter (%)	Moisture (%)
39	Resis		2.68	109.4	20.8	79.2
48	Multi 777	4	2.68	109.4	21.3	78.7
12	Dura 512	5	2.67	109.0	19.7	80.3
6	WL 327	4	2.60	106.1	19.8	80.2
9	Cooper	3	2.60	106.1	20.2	79.8
31	Ameristand 403T	4	2.59	105.7	20.1	79.9
36	Winema	5	2.58	105.3	21.0	79.0
46	Multi 775	3	2.58	105.3	20.2	79.8
29	Robust T&N	4	2.57	104.9	20.3	79.7
10	Shaw	3	2.56	104.5	20.0	80.0
41	Robust T&N (Treat)	4	2.56	104.5	20.9	79.1
1	Plumas	4	2.54	103.7	19.4	80.6
45	FSG 351	3	2.51	102.4	18.9	81.0
18	Vernal	2	2.50	102.0	19.1	80.9
28	ST 9429	4	2.50	102.0	19.4	80.6
22	53V08	3	2.49	101.6	20.3	79.7
42	Ladak Plus	3	2.46	100.4	20.8	79.2
15	Surpass	3	2.44	99.6	19.7	80.3
20	Perry	3	2.43	99.2	19.2	80.8
47	Trophy	4	2.40	98.0	20.0	80.0
24	Ladak 65	2	2.39	97.6	20.4	79.6
52	Spredor III	1	2.38	97.1	20.1	79.9
17	Ladak	2	2.37	96.7	20.3	79.7
27	DK 42-15	4	2.36	96.3	19.2	80.8
32	54Q25	4	2.36	96.3	20.7	79.3
38	Grimm	1/2	2.36	96.3	19.7	80.3
30	Amerigraze 401+Z	4	2.33	95.1	19.4	80.6
23	Ranger	2	2.31	94.3	19.3	80.7
40	Iroquois	2	2.31	94.3	19.9	80.1
16	Lahontan	6	2.30	93.9	20.6	79.4
50	AmeriLeaf 721	7	2.28	93.1	20.0	80.0
51	Ameristand 802 ¹	8	2.27	92.7	20.6	79.4
2	LegenDairy 5.0	3	2.24	91.4	19.4	80.6
25	DKA50-18	5	2.24	91.4	20.5	79.5
26	DK 33-16	3	2.20	89.8	19.7	80.3
	Mean		2.45		20.0	80.0
	PLSD 0.01		0.32		NS	NS
	PLSD 0.05		0.24		NS	NS
	PLSD 0.10		0.20		NS	NS
	CV %		7.1		5.9	1.5
	Prob. > F		0.0002		0.4029	0.4029
	Harvest Date		7/24			

¹ suffered considerable winter kill in 2003/2004. Yield presented on a dry matter basis (oven-dried at 138 degrees F)

Table 14. 2005 third-cut yield results of the alfalfa variety trial planted in August, 2003 at the COARC, Powell Butte, Oregon.

#	Variety	FD	Yield (t/ac)	% of Mean	Dry Matter (%)	Moisture (%)	Height (in.)
12	Dura 512	5	2.45	117.2	20.8	79.2	30
6	WL 327	4	2.33	111.5	20.6	79.4	29
29	Robust T&N	4	2.30	110.1	20.7	79.3	28
9	Cooper	3	2.29	109.6	20.5	79.5	27
32	54Q25	4	2.27	108.6	20.2	79.8	26
10	Shaw	3	2.25	107.7	20.1	79.9	27
39	Resis		2.25	107.7	20.7	79.3	26
41	Robust T&N (Treat)	4	2.21	105.7	21.0	79.0	27
42	Ladak Plus	3	2.20	105.3	20.4	79.6	26
52	Spredor III	1	2.18	104.3	20.4	79.6	27
30	Amerigraze 401+Z	4	2.17	103.8	21.0	79.0	26
45	FSG 351	3	2.16	103.3	20.2	79.8	26
2	LegenDairy 5.0	3	2.14	102.4	20.3	79.7	25
26	DK 33-16	3	2.14	102.4	20.5	79.5	25
22	53V08	3	2.13	101.9	20.2	79.8	27
40	Iroquois	2	2.11	101.0	20.4	79.6	27
48	M777	4	2.11	101.0	20.5	79.5	27
15	Surpass	3	2.10	100.5	19.9	80.1	27
17	Ladak	2	2.08	99.5	20.9	79.1	24
27	DK 42-15	4	2.08	99.5	20.1	79.9	26
47	Trophy	4	2.05	98.1	19.6	80.4	26
25	DKA50-18	5	2.03	97.1	20.2	79.8	26
28	ST 9429	4	2.02	96.7	19.9	80.1	27
46	Multi 775	3	2.02	96.7	20.1	79.9	26
18	Vernal	2	2.01	96.2	20.6	79.4	25
16	Lahontan	6	2.00	95.7	20.8	79.2	26
1	Plumas	4	1.98	94.7	20.2	79.8	26
38	Grimm	1/2	1.97	94.3	20.7	79.3	27
36	Winema	5	1.95	93.3	20.7	79.3	27
24	Ladak 65	2	1.93	92.3	20.2	79.8	27
20	Perry	3	1.92	91.9	20.3	79.7	26
31	Ameristand 403T	4	1.92	91.9	20.4	79.6	25
50	AmeriLeaf 721	7	1.88	90.0	21.5	78.5	27
51	Ameristand 802 ¹	8	1.82	87.1	20.7	79.3	27
23	Ranger	2	1.81	86.6	20.2	79.8	22
	Mean		2.09	100.0	20.4	79.6	26.3
	PLSD 0.01		0.35		NS	NS	3.4
	PLSD 0.05		0.26		NS	NS	2.5
	PLSD 0.10		0.22		NS	NS	2.1
	CV %		8.9		3.4	0.8	6.9
	Prob. > F		0.0002		0.2844	0.2844	0.0002
	Harvest Date		9/8				

¹ suffered considerable winter kill in 2003/2004. Yield presented on a dry matter basis (oven-dried at 138 degrees F).

Table 15. 2006 yield results of the alfalfa variety trial planted in August, 2003 at the COARC, Powell Butte, Oregon.

#	Variety	FD	1 st Cut Yield (t/ac)	2 nd Cut Yield (t/ac)	3 rd Cut Yield (t/ac)	Total Yield (t/ac)	% of Mean (%)
22	53V08	3	3.29	2.75	2.19	8.23	110.6
32	54Q25	4	3.18	2.75	2.30	8.23	110.6
25	DKA50-18	5	3.51	2.37	2.16	8.04	108.1
27	DK 42-15	4	3.10	2.48	2.31	7.90	106.2
42	Ladak Plus	3	3.21	2.54	2.14	7.89	106.0
39	Resis		2.96	2.80	2.12	7.88	105.9
2	LegenDairy 5.0	3	3.15	2.51	2.19	7.86	105.6
40	Iroquois	2	3.19	2.71	1.89	7.79	104.7
20	Perry	3	3.21	2.58	1.98	7.77	104.4
45	FSG 351	3	3.06	2.38	2.29	7.73	103.9
15	Surpass	3	3.05	2.78	1.88	7.71	103.6
29	Robust T&N	4	2.78	2.78	2.11	7.67	103.1
1	Plumas	4	3.10	2.63	1.89	7.63	102.5
12	Dura 512	5	2.62	2.60	2.39	7.62	102.4
9	Cooper	3	3.00	2.58	2.01	7.59	102.0
28	ST 9429	4	2.90	2.70	1.97	7.56	106.2
10	Shaw	3	3.08	2.57	1.89	7.54	101.3
52	Spredor III	1	3.11	2.53	1.84	7.49	100.7
41	Robust T&N (Treat)	4	2.66	2.76	2.03	7.46	100.3
38	Grimm	1/2	2.88	2.66	1.91	7.45	100.1
6	WL 327	4	2.95	2.55	1.93	7.43	99.9
30	Amerigraze 401+Z	4	2.97	2.53	1.92	7.43	99.9
26	DK 33-16	3	3.09	2.27	2.05	7.42	99.7
47	Trophy	4	2.98	2.45	1.97	7.41	99.6
48	Multi 777	4	2.76	2.51	2.13	7.41	99.6
46	Multi 775	3	2.85	2.56	1.98	7.39	99.3
18	Vernal	2	2.89	2.71	1.64	7.24	97.3
36	Winema	5	2.64	2.47	1.94	7.05	94.8
50	AmeriLeaf 721	7	2.35	2.53	2.00	6.88	92.5
16	Lahontan	6	2.56	2.45	1.86	6.87	92.3
17	Ladak	2	2.65	2.37	1.73	6.75	90.7
31	Ameristand 403T	4	2.71	2.41	1.62	6.74	90.6
24	Ladak 65	2	2.54	2.35	1.83	6.73	90.5
23	Ranger	2	2.80	2.31	1.39	6.49	87.2
51	Ameristand 802 ¹	8	1.88	2.36	1.90	6.14	82.5
	Mean		2.91	2.55	1.98	7.44	100.0
	PLSD 0.01		0.49	0.42	0.49	0.96	
	PLSD 0.05		0.37	0.32	0.37	0.73	
	PLSD 0.10		0.31	0.27	0.31	0.61	
	CV %		9.1	8.9	13.4	7.0	
	Prob. > F		0.0130	0.0195	.0003	0.0001	
	Harvest Date		6/19	7/27	9/12		
	% of Total Yield		39.1	34.3	26.6	100.0	

¹ Suffered considerable winter kill in 2003/2004. Yield is presented on a dry matter basis (oven-dried at 138 degrees F).

Table 16. 2006 first-cut yield results of the alfalfa variety trial planted in August, 2003 at the COARC, Powell Butte, Oregon.

#	Variety	FD	Yield (t/ac)	% of Mean	Dry Matter (%)	Moisture (%)
25	DKA50-18	5	3.51	120.8	26.9	73.1
22	53V08	3	3.29	113.2	25.7	74.3
20	Perry	3	3.21	110.3	26.7	73.3
42	Ladak Plus	3	3.21	110.1	26.5	73.5
40	Iroquois	2	3.19	109.6	26.8	73.2
32	54Q25	4	3.18	109.2	26.3	73.7
2	LegenDairy 5.0	3	3.15	108.2	27.1	72.9
52	Spredor III	1	3.11	107.2	26.2	73.8
1	Plumas	4	3.10	106.6	24.9	75.1
27	DK 42-15	4	3.10	106.6	24.2	75.8
26	DK 33-16	3	3.09	106.2	27.8	72.2
10	Shaw	3	3.08	106.0	26.4	73.6
45	FSG 351	3	3.06	105.2	26.9	73.9
15	Surpass	3	3.05	104.9	26.2	73.8
9	Cooper	3	3.00	103.0	24.9	75.1
47	Trophy	4	2.98	102.5	25.3	74.7
30	Amerigraze 401+Z	4	2.97	102.1	26.6	73.4
39	Resis		2.96	101.7	27.2	72.8
6	WL 327	4	2.95	101.3	26.2	73.8
28	ST 9429	4	2.90	99.6	24.1	75.9
18	Vernal	2	2.89	99.3	26.4	73.5
38	Grimm	1/2	2.88	99.1	28.1	71.9
46	Multi 775	3	2.85	98.0	26.1	74.7
23	Ranger	2	2.80	96.3	24.6	75.4
29	Robust T&N	5	2.78	95.5	27.2	72.8
48	Multi 777	4	2.76	94.8	25.1	74.9
31	Ameristand 403T	4	2.71	93.2	25.9	74.1
41	Robust T&N (Treat)	5	2.66	91.5	26.0	74.0
17	Ladak	2	2.65	91.0	26.1	73.9
36	Winema	5	2.64	90.7	28.0	72.0
12	Dura 512	5	2.62	90.2	24.4	75.6
16	Lahontan	6	2.56	87.9	28.7	71.3
24	Ladak 65	2	2.54	87.2	25.4	74.6
50	AmeriLeaf 721	7	2.35	80.9	26.2	73.8
51	Ameristand 802 ¹	8	1.88	64.5	26.6	73.4
	Mean		2.91	100.0	26.2	73.8
	PLSD 0.01		0.49		NS	NS
	PLSD 0.05		0.37		NS	NS
	PLSD 0.10		0.31		NS	NS
	CV %		9.1		5.1	1.8
	Prob. > F		0.0130		0.1752	0.1752
	Harvest Date	6/19				

¹ suffered considerable winter kill in 2003/2004. Yield is presented on a dry matter basis (oven-dried at 138 degrees F).

Table 17. 2006 2nd cut yield results of the alfalfa variety trial planted in August, 2003 at COARC, Powell Butte, Oregon.

#	Variety	FD	Yield (t/ac)	% of Mean	Dry Matter (%)	Moisture (%)
39	Resis		2.80	109.7	21.0	79.0
15	Surpass	3	2.78	108.9	20.2	79.8
29	Robust T&N	4	2.78	109.2	20.6	79.4
41	Robust T&N (Treat)	4	2.76	108.4	22.3	77.7
22	53V08	3	2.75	107.8	20.4	79.6
32	54Q25	4	2.75	107.8	20.4	79.6
18	Vernal	2	2.71	106.3	20.5	79.5
40	Iroquois	2	2.71	106.3	20.5	79.5
28	ST 9429	4	2.70	105.7	20.3	79.7
38	Grimm	1/2	2.66	104.4	21.2	78.8
1	Plumas	4	2.63	103.1	19.0	81.0
12	Dura 512	5	2.60	102.1	19.1	80.9
9	Cooper	3	2.58	101.2	19.3	80.7
20	Perry	3	2.58	101.2	19.0	81.0
10	Shaw	3	2.57	100.8	19.8	80.2
46	Multi 775	3	2.56	100.2	20.4	79.0
6	WL 327	4	2.55	99.9	18.6	81.4
42	Ladak Plus	3	2.54	99.7	20.8	79.2
30	Amerigraze 401+Z	4	2.53	99.4	19.7	80.3
50	AmeriLeaf 721	7	2.53	99.1	21.1	78.9
52	Spredor III	1	2.53	99.1	19.1	80.9
2	LegenDairy 5.0	3	2.51	98.4	19.9	80.1
48	Multi 777	4	2.51	98.4	20.4	79.6
27	DK 42-15	4	2.48	97.4	20.1	79.9
36	Winema	5	2.47	96.8	20.2	79.8
16	Lahontan	6	2.45	96.1	21.0	79.0
47	Trophy	4	2.45	96.1	18.3	81.7
31	Ameristand 403T	4	2.41	94.6	19.3	80.7
45	FSG 351	3	2.38	93.2	18.2	81.8
17	Ladak	2	2.37	93.1	20.4	79.6
25	DKA50-18	5	2.37	92.7	19.6	80.4
51	Ameristand 802 ¹	8	2.36	92.5	21.3	78.7
24	Ladak 65	2	2.35	92.3	20.2	79.8
23	Ranger	2	2.31	90.4	19.1	81.0
26	DK 33-16	3	2.27	89.2	19.2	80.8
	Mean		2.55	100.0	20.0	80.0
	PLSD 0.01		0.42		2.6	2.6
	PLSD 0.05		0.32		1.9	1.9
	PLSD 0.10		0.27		1.6	1.6
	CV %		8.9		6.9	1.7
	Prob. > F		0.0195		0.0164	0.0164
	Harvest Date	7/27				

¹ suffered considerable winter kill in 2003/2004. Yield presented on a dry matter basis (oven-dried at 138 degrees F)

Table 18. 2006 third-cut yield results of the alfalfa variety trial planted in August, 2003 at the COARC, Powell Butte, Oregon.

#	Variety	FD	Yield (t/ac)	% of Mean	Dry Matter (%)	Moisture (%)	Height (in.)
12	Dura 512	5	2.39	120.9	21.2	78.8	30.3
27	DK 42-15	4	2.31	116.8	21.2	78.8	26.5
32	54Q25	4	2.30	116.3	21.4	78.5	28.8
45	FSG 351	3	2.29	115.6	20.6	79.4	28.8
2	LegenDairy 5.0	3	2.19	110.8	22.1	77.9	26.5
22	53V08	3	2.19	110.4	21.1	78.9	27.0
25	DKA50-18	5	2.16	108.8	21.6	78.4	27.3
42	Ladak Plus	3	2.14	108.2	21.9	78.1	27.0
48	M777	4	2.13	107.6	21.3	78.7	26.0
39	Resis		2.12	107.3	21.1	78.9	29.0
29	Robust T&N	4	2.11	106.6	22.2	77.8	26.8
26	DK 33-16	3	2.05	103.5	20.7	79.3	27.3
41	Robust T&N (Treat)	4	2.03	102.5	21.9	78.2	27.8
9	Cooper	3	2.01	101.6	21.4	78.6	25.3
50	AmeriLeaf 721	7	2.00	101.0	21.1	78.9	29.5
20	Perry	3	1.98	100.0	21.0	79.0	24.8
46	Multi 775	3	1.98	100.0	20.8	78.7	26.3
28	ST 9429	4	1.97	99.3	20.5	79.5	25.5
47	Trophy	4	1.97	99.5	20.6	79.4	25.8
36	Winema	5	1.94	98.1	21.4	78.6	26.0
6	WL 327	4	1.93	97.6	20.7	79.3	24.0
30	Amerigraze 401+Z	4	1.92	97.1	22.0	78.0	23.0
38	Grimm	1/2	1.91	96.5	21.2	78.8	24.8
51	Ameristand 802 ¹	8	1.90	96.2	22.4	77.6	28.8
1	Plumas	4	1.89	95.7	20.4	79.6	26.8
10	Shaw	3	1.89	95.3	21.1	78.9	27.3
40	Iroquois	2	1.89	95.4	22.1	77.9	23.3
15	Surpass	3	1.88	94.7	21.5	78.5	25.0
16	Lahontan	6	1.86	94.1	21.7	78.3	28.3
52	Spredor III	1	1.84	93.1	21.1	78.9	22.3
24	Ladak 65	2	1.83	92.6	20.9	79.1	24.0
17	Ladak	2	1.73	87.1	22.3	77.7	22.3
18	Vernal	2	1.64	82.8	19.8	80.2	23.8
31	Ameristand 403T	4	1.62	81.6	21.1	78.9	22.8
23	Ranger	2	1.39	70.0	21.3	78.7	22.3
	Mean		1.98	100.0	21.3	78.7	26.0
	PLSD 0.01		0.49		NS	NS	5.1
	PLSD 0.05		0.37		1.3	1.3	3.9
	PLSD 0.10		0.31		1.1	1.1	3.2
	CV %		13.4		4.5	1.2	10.6
	Prob. > F		.0003		0.0508	0.0508	0.0002
	Harvest Date		9/12				

¹ suffered considerable winter kill in 2003/2004. Yield presented on a dry matter basis (oven-dried at 138 degrees F).

Table 19. 2007 yield results of the alfalfa variety trial planted in August, 2003 at the COARC, Powell Butte, Oregon.

#	Variety	FD	1 st Cut Yield (t/ac)	2 nd Cut Yield (t/ac)	3 rd Cut Yield (t/ac)	Total Yield (t/ac)	% of Mean (%)
45	FSG 351	3	2.79	2.91	1.85	7.55	109.7
27	DK 42-15	4	2.73	2.76	1.80	7.30	106.1
12	Dura 512	5	2.49	2.90	1.86	7.25	105.4
2	LegenDairy 5.0	3	2.70	2.79	1.74	7.23	105.1
40	Iroquois	2	2.61	2.87	1.70	7.18	104.4
28	ST 9429	4	2.76	2.61	1.79	7.15	103.9
20	Perry	3	2.68	2.71	1.75	7.14	103.8
38	Grimm	1/2	2.45	2.96	1.72	7.13	103.6
22	53V08	3	2.58	2.86	1.68	7.11	103.3
15	Surpass	3	2.57	2.85	1.67	7.09	103.1
32	54Q25	4	2.53	2.74	1.81	7.08	102.9
25	DKA50-18	5	2.64	2.63	1.80	7.07	102.8
46	Multi 775	3	2.60	2.77	1.70	7.06	102.6
48	Multi 777	4	2.52	2.71	1.82	7.04	102.3
10	Shaw	3	2.47	2.90	1.61	6.98	101.5
47	Trophy	4	2.69	2.61	1.68	6.97	101.3
6	WL 327	4	2.46	2.76	1.73	6.96	101.2
1	Plumas	4	2.66	2.64	1.65	6.95	101.0
52	Spredor III	1	2.73	2.65	1.52	6.94	100.9
23	Ranger	2	2.95	2.58	1.41	6.93	100.7
18	Vernal	2	2.61	2.74	1.57	6.93	100.7
39	Resis		2.32	2.81	1.79	6.91	100.4
30	Amerigraze 401+Z	4	2.58	2.68	1.63	6.89	100.1
29	Robust T&N	4	2.29	2.80	1.74	6.82	99.1
17	Ladak	2	2.72	2.60	1.48	6.80	98.8
31	Ameristand 403T	4	2.58	2.62	1.57	6.77	98.4
42	Ladak Plus	3	2.36	2.66	1.71	6.73	97.8
9	Cooper	3	2.42	2.61	1.66	6.69	97.2
26	DK 33-16	3	2.52	2.52	1.61	6.64	96.5
41	Robust T&N (Treat)	4	2.30	2.64	1.70	6.63	96.4
36	Winema	5	2.39	2.58	1.65	6.62	96.2
24	Ladak 65	2	2.36	2.53	1.56	6.44	93.6
50	AmeriLeaf 721	7	1.98	2.54	1.78	6.30	91.6
16	Lahontan	6	1.81	2.41	1.60	5.82	84.6
51	Ameristand 802 ¹	8	1.67	2.40	1.55	5.63	81.8
	Mean		2.50	2.70	1.68	6.88	100.0
	PLSD 0.01		0.36	NS	0.22	0.71	
	PLSD 0.05		0.27	0.38	0.17	0.53	
	PLSD 0.10		0.23	0.32	0.14	0.45	
	CV %		7.7	10.0	7.1	5.5	
	Prob. > F		0.0001	0.0114	0.0001	0.0001	
	Harvest Date		6/20	8/1	9/14		
	% of Total Yield		36.3	39.2	24.4		

¹ Suffered considerable winter kill in 2003/2004. Yield is presented on a dry matter basis (oven-dried at 130 degrees F).

Table 20. 2007 first-cut yield results of the alfalfa variety trial planted in August, 2003 at the COARC, Powell Butte, Oregon.

#	Variety	FD	Yield (t/ac)	% of Mean	Dry Matter (%)	Moisture (%)
23	Ranger	2	2.95	118.0	24.6	75.4
45	FSG 351	3	2.79	111.6	24.5	75.5
28	ST 9429	4	2.76	110.4	24.7	75.3
27	DK 42-15	4	2.73	109.2	25.0	75.0
52	Spredor III	1	2.73	109.2	26.6	73.4
17	Ladak	2	2.72	108.8	26.1	73.9
2	LegenDairy 5.0	3	2.70	108.0	25.0	75.0
47	Trophy	4	2.69	107.6	25.4	74.6
20	Perry	3	2.68	107.2	26.6	73.4
1	Plumas	4	2.66	106.4	24.0	76.0
25	DKA50-18	5	2.64	105.6	26.5	73.5
18	Vernal	2	2.61	104.4	25.9	74.1
40	Iroquois	2	2.61	104.4	26.0	74.0
46	Multi 775	3	2.60	104.0	27.0	73.0
22	53V08	3	2.58	103.2	24.5	75.5
30	Amerigraze 401+Z	4	2.58	103.2	26.0	74.0
31	Ameristand 403T	4	2.58	103.2	25.2	74.8
15	Surpass	3	2.57	102.8	24.5	75.5
32	54Q25	4	2.53	101.2	26.8	73.2
26	DK 33-16	3	2.52	100.8	26.4	73.6
48	Multi 777	4	2.52	100.8	27.1	72.9
12	Dura 512	5	2.49	99.6	24.9	75.1
10	Shaw	3	2.47	98.8	24.3	75.7
6	WL 327	4	2.46	98.4	24.2	75.8
38	Grimm	1/2	2.45	98.0	26.5	73.5
9	Cooper	3	2.42	96.8	25.3	74.7
36	Winema	5	2.39	95.6	24.4	75.6
24	Ladak 65	2	2.36	94.4	26.4	73.6
42	Ladak Plus	3	2.36	94.4	27.2	72.8
39	Resis		2.32	92.8	25.8	74.2
41	Robust T&N (Treat)	5	2.30	92.0	25.9	74.1
29	Robust T&N	5	2.29	91.6	25.2	74.8
50	AmeriLeaf 721	7	1.98	78.0	26.2	73.8
16	Lahontan	6	1.81	72.4	27.4	72.6
51	Ameristand 802 ¹	8	1.67	66.8	24.9	75.1
	Mean		2.50	100.0	25.6	74.4
	PLSD 0.01		0.36		NS	NS
	PLSD 0.05		0.27		NS	NS
	PLSD 0.10		0.23		2.2	2.2
	CV %		7.7		7.2	2.5
	Prob. > F		0.0001		0.0613	0.0613
	Harvest Date		6/20			

¹ suffered considerable winter kill in 2003/2004. Yield is presented on a dry matter basis (oven-dried at 130 degrees F).

Table 21. 2007 2nd cut yield results of the alfalfa variety trial planted in August, 2003 at COARC, Powell Butte, Oregon.

#	Variety	FD	Yield (t/ac)	% of Mean	Dry Matter (%)	Moisture (%)
38	Grimm	1/2	2.96	109.6	24.1	75.9
45	FSG 351	3	2.91	107.8	21.4	78.6
10	Shaw	3	2.90	107.4	20.8	79.2
12	Dura 512	5	2.90	107.4	21.9	78.1
40	Iroquois	2	2.87	106.3	22.1	77.9
22	53V08	3	2.86	105.9	21.1	78.9
15	Surpass	3	2.85	105.6	19.8	80.2
39	Resis		2.81	104.1	23.8	76.2
29	Robust T&N	4	2.80	103.7	20.7	79.3
2	LegenDairy 5.0	3	2.79	103.3	20.5	79.5
46	Multi 775	3	2.77	102.3	20.9	79.1
6	WL 327	4	2.76	102.2	21.8	78.2
27	DK 42-15	4	2.76	102.2	21.9	78.1
18	Vernal	2	2.74	101.5	20.5	79.5
32	54Q25	4	2.74	101.5	23.9	76.1
20	Perry	3	2.71	100.4	22.0	78.0
48	Multi 777	4	2.71	100.4	23.5	76.5
30	Amerigraze 401+Z	4	2.68	99.3	21.6	78.4
42	Ladak Plus	3	2.66	98.5	25.2	74.8
52	Spredor III	1	2.65	98.1	21.8	78.2
1	Plumas	4	2.64	97.8	19.8	80.2
41	Robust T&N (Treat)	4	2.64	97.8	21.6	78.4
25	DKA50-18	5	2.63	97.4	21.7	78.3
31	Ameristand 403T	4	2.62	97.0	23.0	77.0
9	Cooper	3	2.61	96.7	22.8	77.2
28	ST 9429	4	2.61	96.7	24.9	75.1
47	Trophy	4	2.61	96.7	19.1	80.9
17	Ladak	2	2.60	96.3	23.0	77.0
23	Ranger	2	2.58	95.6	18.9	81.1
36	Winema	5	2.58	95.6	20.1	79.9
50	AmeriLeaf 721	7	2.54	94.1	23.3	76.7
24	Ladak 65	2	2.53	93.7	22.3	77.7
26	DK 33-16	3	2.52	93.3	23.3	76.7
16	Lahontan	6	2.41	89.3	25.2	74.8
51	Ameristand 802 ¹	8	2.40	88.9	24.1	75.9
	Mean		2.70	100.0	22.1	77.9
	PLSD 0.01		NS		NS	NS
	PLSD 0.05		0.38		NS	NS
	PLSD 0.10		0.32		3.9	3.9
	CV %		10.0		15.0	4.3
	Prob. > F		0.0114		0.0859	0.0859
	Harvest Date		8/1			

¹ suffered considerable winter kill in 2003/2004. Yield presented on a dry matter basis (oven-dried at 130 degrees F). There were irrigation problems on this cutting – a couple of nozzles were partially plugged.

Table 22. 2007 third-cut yield results of the alfalfa variety trial planted in August, 2003 at the COARC, Powell Butte, Oregon.

#	Variety	FD	Yield (t/ac)	% of Mean	Dry Matter (%)	Moisture (%)	Height (in.)
12	Dura 512	5	1.86	110.7	18.4	81.6	29.5
45	FSG 351	3	1.85	110.1	18.5	81.5	27.0
48	M777	4	1.82	108.3	18.6	81.4	26.3
32	54Q25	4	1.81	107.7	18.8	81.2	27.0
25	DKA50-18	5	1.80	107.1	18.8	81.2	24.0
27	DK 42-15	4	1.80	107.1	18.1	81.9	25.3
28	ST 9429	4	1.79	106.5	18.0	82.0	26.5
39	Resis		1.79	106.5	18.7	81.3	28.8
50	AmeriLeaf 721	7	1.78	106.0	18.8	81.2	27.5
20	Perry	3	1.75	104.2	18.1	81.9	26.0
2	LegenDairy 5.0	3	1.74	103.4	18.9	81.2	25.8
29	Robust T&N	4	1.74	103.6	18.9	81.1	28.3
6	WL 327	4	1.73	103.0	18.6	81.4	26.5
38	Grimm	1/2	1.72	102.4	18.6	81.4	26.8
42	Ladak Plus	3	1.71	101.8	18.6	81.4	27.0
40	Iroquois	2	1.70	101.2	19.3	80.7	24.8
41	Robust T&N (Treat)	4	1.70	101.2	19.0	81.0	27.5
46	Multi 775	3	1.70	101.2	19.1	80.9	24.8
22	53V08	3	1.68	100.0	18.6	81.5	27.0
47	Trophy	4	1.68	100.0	18.1	81.9	24.8
15	Surpass	3	1.67	99.4	18.8	81.2	26.3
9	Cooper	3	1.66	98.8	18.6	81.4	26.8
1	Plumas	4	1.65	98.2	18.3	81.7	28.5
36	Winema	5	1.65	98.2	19.0	81.0	25.8
30	Amerigraze 401+Z	4	1.63	97.0	18.4	81.7	23.8
10	Shaw	3	1.61	95.8	18.2	81.8	26.3
26	DK 33-16	3	1.61	95.8	17.9	82.1	25.3
16	Lahontan	6	1.60	95.2	18.6	81.4	28.0
18	Vernal	2	1.57	93.5	18.7	81.3	22.8
31	Ameristand 403T	4	1.57	93.5	18.8	81.2	23.3
24	Ladak 65	2	1.56	92.9	18.4	81.6	24.0
51	Ameristand 802 ¹	8	1.55	92.3	19.4	80.7	29.3
52	Spredor III	1	1.52	90.5	18.4	81.6	24.3
17	Ladak	2	1.48	88.1	18.9	81.1	23.3
23	Ranger	2	1.41	83.9	18.4	81.7	21.5
	Mean		1.68	100.0	18.6	81.4	26.0
	PLSD 0.01		0.22		1.1	1.1	NS
	PLSD 0.05		0.17		0.8	0.8	NS
	PLSD 0.10		0.14		0.7	0.7	1.8
	CV %		7.1		3.0	0.7	5.8
	Prob. > F		0.0001		0.0001	0.0001	0.0866
	Harvest Date		9/14				

¹ suffered considerable winter kill in 2003/2004. Yield presented on a dry matter basis (oven-dried at 130 degrees F).

Table 23. 2007 Fall regrowth (from September 14) plant height (inches) of selected varieties measured on November 8th for the alfalfa variety trial planted in August, 2003 at the COARC, Powell Butte, Oregon.

#	Variety	FD	Rep I (in)	Rep II (in)	Rep III (in)	Rep IV (in)	Mean (in)
52	Spredor III	1	1.5	1.5	1.0	1.5	1.4
18	Vernal	2	1.0	1.0	1.0	1.0	1.0
22	53V08	3	1.5	1.5	1.5	2.0	1.6
29	Robust T&N	4	3.0	2.5	2.5	2.5	2.6
41	Robust T&N (Treat)	4	2.5	3.0	3.0	3.0	2.9
16	Lahontan	6	3.0	2.5	2.5	2.5	2.6
50	AmeriLeaf 721 ¹	7	3.5	3.0	3.0	4.0	3.4
51	Ameristand 802 ²	8	4.5	3.0	4.0	4.0	3.9
	Mean						
	PLSD 0.01						
	PLSD 0.05						
	PLSD 0.10						
	CV %						
	Prob. > F						

¹ suffered some winter kill in 2003/2004.

² suffered considerable winter kill in 2003.2004 winter