

## **AGRONOMY PROGRESS REPORT**

# **2008 CALIFORNIA ALFALFA VARIETY TRIAL YIELD RESULTS, INCLUDING ROUND-UP READY VARIETIES**

Dan Putnam, Craig Giannini, Francisco Maciel, Steve Orloff, Don Kirby,  
Chris DeBen<sup>1</sup>

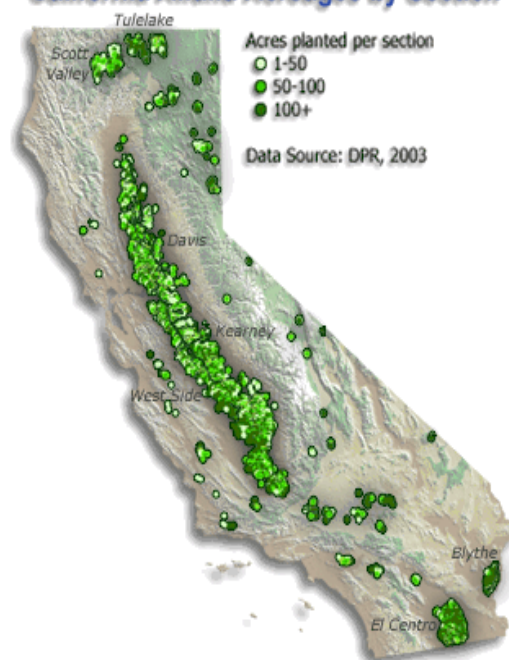
### **ABSTRACT**

This publication details alfalfa yield trial data for single harvest, single year, and multiple-year summaries for the year 2008. Both conventional and Roundup-Ready (RR) lines have been tested. Yield trials were conducted in 5 regions in California: the Intermountain area, the Sacramento Valley, the Westside Research Station, the San Joaquin Valley, and the Imperial Valley (low desert, Figure 1). The alfalfa variety trial data from the University of California are routinely placed on the World Wide Web; often well in advance of this published report (<http://alfalfa.ucdavis.edu/>).

### **INTRODUCTION**

These UC trials provide unbiased data from a wide range of environments related to variety performance of alfalfa. In California, alfalfa is grown from the Oregon border to the Mexican border, and throughout the Great Central Valley, which consists of the Sacramento and San Joaquin Valleys (Figure 1). These sites represent 3-4 cut systems (dormant varieties) in the Intermountain Region, 6-8 cut systems (dormant, semi-dormant, or non-dormant 90% varieties) in the Northern Central Valley, and 7-8 cut systems (semi-dormant to non-dormant varieties) in the Southern Central Valley and 8-11 cut systems (non-dormant varieties) in the Low Desert Environment in the south.

### **California Alfalfa Acreages by Section**



**Figure 1.** California alfalfa acreage. The Intermountain region is represented by Tulelake and Scott Valley, Sacramento Valley by the Davis trial, San Joaquin Valley by the Kearney Trial, high desert by the Lancaster (LA County) trial, and Low Desert by the El Centro trial.

<sup>1</sup> D. Putnam, Extension Agronomist UC Davis (One Shields Ave., Department of Crop Sciences, University of California, Davis, CA 95616 ([dhputnam@ucdavis.edu](mailto:dhputnam@ucdavis.edu)); Craig Giannini, Staff Research Associate, UC Davis, ([cgiannini@ucdavis.edu](mailto:cgiannini@ucdavis.edu)); F. Marcia, SRA, El Centro; Steve Orloff and Harry Carlson, UCCE Farm Advisors Siskiyou and Modoc Counties, respectively; D. Kirby, UC Staff Research Associate Tulelake; Chris DeBen, Project Scientist, UC Davis. See <http://alfalfa.ucdavis.edu> for comprehensive UC Alfalfa Variety data.

Choosing superior varieties of alfalfa is a significant economic factor for alfalfa growers. A large number of commercial varieties are currently available, enabling a wide range of options for producers. Both private and public varieties and experimental lines are tested. These data are frequently used by growers to choose varieties, and by breeders to help guide further selection.

## **2008 ALFALFA PRODUCTION YEAR**

The 2008 production season was generally characterized by a drier winter season followed by a mild spring and summer season. The remainder of the season (August-September) was normal to milder than typical. Winter rainfall was light into the spring months allowing the first cuts to occur at a timely basis. This was followed by seasonal temperatures in June, followed by more moderate temperatures in July. The moderate and dry fall months allowed for excellent late production (high yields and high quality) for many growers in the Central Valley. Record prices occurred in 2008 and were above the 10-year average. Higher costs of production occurred in 2008, particularly fuel and electricity for pumping. Research plots in Davis and Kearney had the first cutting in early April. Currently, hay stocks are down, demand is high and thus hay prices appear to continue to be very high and increasing, a condition which is expected to continue into 2009. New plantings of alfalfa will undoubtedly impact the price, depending upon magnitude. It was characterized by a dry spring in much of the Sacramento and San Joaquin Valleys, and a moderate summer. As a result, some excellent early production (high yields and high quality) was obtained for many growers in the Central Valley. Quite a few growers obtained one additional cutting than in less-favorable years. Additionally, the price for alfalfa hay continued to increase in 2008 compared with previous years, and as the year draws to a close, hay stocks are down, demand is good, and hay prices continue to be very high.

## **TESTING ALFALFA VARIETIES - METHODS**

**Yield Trials.** The California Alfalfa Cultivar Yield, Fall Dormancy, and Forage Quality Trials are open to any certified alfalfa cultivar, which is sold or is likely to be sold in California. Blends or brands (unless they are certified blends) are not included in these trials. Experimental cultivars with a high likelihood of release within the next few years are tested as space permits. Six alfalfa variety yield trials were harvested from Tulelake, Davis (2 trials), Parlier, West Side Field Station and El Centro, CA in 2008.

Two new trials (UC Davis and UC Desert Research and Extension Center, El Centro) were established in the fall of 2008. Specific planting dates for each trial are given on the results table for that trial. The plantings were at approximately 25 lbs/acre live seed. Plots were 3' to 4' wide and 15 to 20 feet long, depending upon location and specific layout. Four to six replicates of each cultivar were planted at each location, depending upon the expected variation at that site. Experimental design was a randomized complete block design. Harvests for yield estimation were obtained from approximately a 3' x 18' area per plot using a flail-type or cutter-bar type forage harvester, and dry matter yield determined by oven-drying sub samples to a constant weight. A representative group of 5-6 varieties were taken at each harvest, and the average dry matter used for yield determination. Three to four harvests were taken in the intermountain

region, while up to ten cuttings were taken in the Imperial Valley. Cutting schedules were determined by the most common practice in that region and are the same for all varieties within a trial. The data is obtained from each of the locations and analyzed and summarized at the UC Davis campus.

**Note on Statistical Inference:** In 2006, we elected to analyze and report significance of variety testing data (calculation of F-test and LSD Values) based upon a probability value of 10% vs. the traditional 5%. In doing so, we are accepting a 90% confidence level vs. a 95% confidence level. This is due to the fact that growers routinely base decisions based upon degrees of confidence that are far lower than 95% confidence levels we have routinely used. A 10% probability level (the probability that the declared difference is based solely upon chance) is sufficiently conservative to prevent choosing varieties based upon false differences—such decisions are always a compromise between practical factors and statistical vigor. The practical implication of this decision: it does not change the rankings or yield averages, but it makes the groups that are considered similar (those that share the same letter A,B,C designations based upon LSD values) smaller in number. To put this in non-technical language: We report that variety X is significantly different than variety Y, and have accepted a 10% chance that the apparent difference is due to random variation, not due to the variety. We feel a 90% confidence level is sufficient for making decisions on alfalfa varieties.

## **2008 YIELD RESULTS**

### **Intermountain Region**

**2007 UC Tulelake Yield Trial** – The 2008 season was relatively normal in rainfall and temperature. A new trial was established July 27, 2007 with 56 entries at the Intermountain Research and Extension Center, Tulelake, CA. Single year results from four 2008 harvests are provided in Table 1. In 2008, yield average was 9.05 tons/acre, which was higher than the yield averages in 2007 and 2006 by over 1.5 tons. About 2.5 tons/acre difference between the highest and lowest yield average of varieties was found in 2008. The CVs were relatively low; indicating control of varieties was stable over each cut in this trial. Note: It is a misuse of University data to choose alfalfa varieties based upon a single year trial.

**2006 UC Scott Valley Trial** – A new trial was established with 32 entries May, 2006 on a grower's field in Scott Valley, CA, near Ft. Jones, CA. Single year results from three 2008 harvests are provided in Table 12 and the over-the-years data provided in Table 11. Yield differences from three harvests from highest to lowest-yielding variety were approximately 2.6 tons/acre. However, variability was somewhat high due to drought stress in some replications. Yields averaged over the three years were almost 7 tons/acre (Table 11). The across-the-years yield average between high and low varieties was 1.5 tons/acre. The CVs were relatively low; indicating control of varieties was stable over each cut in this trial.

### **Sacramento Valley**

**2005 UC Davis Yield Trial**– Seven cuttings were conducted during the season with the first cutting taking place on April 7, 2008. Single year results from the seven 2008 harvests are provided in Table 2 and the over-the-years data provided in Table 3. The yield across all varieties decreased from the previous year to about 8.4 tons/acre (Table 3). The yearly yield average between high and low varieties was greater than 2.2 tons/acre difference. CVs were relatively high, indicating a high degree of variability in this trial. The average yields decreased almost 4 tons/acre in 2008 over the previous year's average as this was the third year of the trial.

**2007 UC Davis RR and Conventional Trial** – A new trial of 45 entries was established on February 7, 2007, which included a block of Roundup-Ready alfalfa varieties and a block of conventional varieties, grown under conventional herbicides and Roundup-treated herbicides. These lines have been developed by Forage Genetics International, and compared with 'check varieties'. These plots were grown under de-regulation until regulation occurred again in May 2007. Single year results from the seven 2008 harvests are provided in Table 4 and the over-the-years data provided in Table 5. The difference between high and low yield entries was about 3.4 tons/acre, while the FD ranges were from 4-9. The Fall Dormancy scores reported are those estimated by the company, not those measured in independent tests. The average yields over the year were 8.0 tons/acre. For this second year, the yields of the non-RR check varieties were generally higher than the RR varieties. Eight of the top ten yielding varieties were non-RR. Yields averaged over the two years were increase to 7.8 tons/acre (Table 12). The yearly yield average between high and low varieties was nearly 3.0 tons/acre difference averaged over the two years (Table 5).

### **San Joaquin Valley**

**2007 UC Kearney Yield Trial --** A new trial with 67 varieties was planted September 13, 2007 at the UC Kearney Research Center, Parlier, CA. Seven cuttings were conducted during the 2008 season with the first cutting taking place on April 16, 2008. Single year results from the 2008 harvests are provided in Table 8. The average yield across all varieties was 12 tons/acre which was very high given this was the first year cut. The yearly yield average between high and low varieties was about 4 tons/acre difference, and CVs were relatively high, indicating control of varieties was variable in this trial. Eight cuttings were made during the season in 2008 with the first cutting taking place on April 4. The yearly yield average between high and low varieties was nearly 4 tons/acre difference with CV's remaining relatively high, indicating control of varieties was variable in this trial (Table 8).

**2006 UC West Side yield Trial** – A new trial with 42 varieties was planted fall, 2006 at the West Side Field Station in Five Points, CA. Seven cuttings were conducted during the 2008 season with the first cutting taking place on April 2, 2008. Single year results from the 2008 harvests are provided in Table 6. The average yield across all varieties was 10.8 tons/acre which was high given this was the second year cut. The yearly yield average between high and low varieties was about 6.2 tons/acre difference, and CVs were relatively high, indicating control of varieties was variable in this trial. Yields averaged over the two years were increase to over 11 tons/acre (Table 7). The difference between high and low yield entries was 4.4 tons/acre, while the FD ranges were from 4-10.

### **Low Desert**

**2005 UC Imperial Yield Trial** – This trial was planted with 28 entries October 30, 2005 at the UC Desert Research and Extension Center, El Centro. The third production year data is provided in Table 9 and over-the-years data provided in Table 10. Eight cuttings were conducted during the season with the first cutting taking place on Feb 14, 2007. The yearly yield average between high and low varieties was 1.2 tons/acre difference with CV's remaining fairly high. The average yield across all varieties was about 6.0 tons/acre, nearly 1 ton/acre less than 2007. Yields averaged over the three years were 6.6 tons/acre (Table 10). The yearly yield average between high and low varieties was about 1.3 tons/acre difference averaged over the three years (Table 10).

## INTERPRETING YIELD TRIAL RESULTS

*We suggest the following procedure for selecting varieties:*

1. Select a group of high-yielding varieties for your region (generally the top ¼ to 1/3 of a trial which is closest to your area) from Tables 1-10 over-the years summaries (or from our website). Since this report contains single-year summaries, we recommend that you see the over-the years summaries from the relevant locations which is on our website: <http://alfalfa.ucdavis.edu>
2. Determine the Pest Resistance and Fall Dormancy needs for your region. The FD scores are provided on these tables and in the Alfalfa Alliance Website (see #3).
3. Order a copy or view on the web the current information on Fall Dormancy and Pest resistance at the Alfalfa Alliance Website ([www.alfalfa.org](http://www.alfalfa.org)).
4. Choose those high yielding varieties with the best Pest Resistance package for your region.
5. Consider evidence for high quality if available (such information is not always widely available, but generally more dormant varieties tend to be higher in quality).
6. Last consideration is the price of seed or other factors.

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**TABLE 1. 2008 YIELDS, TULELAKE ALFALFA CULTIVAR TRIAL. TRIAL PLANTED 7/27/07**

Note: Single year data should not be used to evaluate alfalfa varieties or choose alfalfa cultivars

		Cut 1	Cut 2	Cut 3	Cut 4	YEAR		% of	
	FD	17-Jun	18-Jul	26-Aug	25-Sep	TOTAL	VERNAL	%	
<b>Released Varieties</b>		Dry t/a							
PGI 424	4	3.7 (21)	2.4 (11)	2.2 (4)	1.0 (32)	10.0 (1)	A	132.0	
Archer III	5	3.9 (6)	2.4 (15)	2.1 (21)	1.3 (7)	9.6 (2)	A B	127.8	
PGI 459	4	3.7 (14)	2.5 (3)	2.2 (2)	1.0 (25)	9.5 (3)	A B C	126.2	
MilkMaker ML	5	3.5 (43)	2.4 (14)	2.2 (9)	1.3 (2)	9.5 (4)	A B C D	125.7	
AmeriStand444NT	4	3.8 (11)	2.4 (19)	2.2 (1)	1.1 (20)	9.5 (5)	A B C D E	125.5	
Xtra-3	4	3.9 (7)	2.5 (4)	2.2 (10)	0.9 (38)	9.5 (6)	A B C D E	125.4	
Genoa	4	3.9 (4)	2.2 (50)	2.2 (8)	1.1 (14)	9.4 (7)	A B C D E F	124.7	
FSG 528SF	5	3.8 (10)	2.4 (18)	2.1 (16)	1.1 (16)	9.4 (8)	A B C D E F	124.6	
DKA50-18	5	3.6 (40)	2.4 (9)	2.1 (12)	1.2 (9)	9.3 (11)	B C D E F G	123.7	
WL 357HQ	5	3.6 (30)	2.4 (12)	2.2 (7)	1.1 (19)	9.3 (12)	B C D E F G	123.4	
Integra 8300	3	3.6 (29)	2.6 (2)	2.1 (24)	1.0 (24)	9.3 (15)	B C D E F G H I	123.1	
CW 500	5	3.8 (9)	2.4 (28)	2.0 (39)	1.1 (18)	9.2 (18)	B C D E F G H I J	122.4	
GrandStand	4	3.8 (12)	2.5 (7)	2.0 (34)	0.9 (33)	9.2 (20)	B C D E F G H I J K	122.0	
Dura 512	5	3.7 (24)	2.3 (35)	2.2 (3)	0.9 (41)	9.1 (24)	B C D E F G H I J K L	121.1	
Prosementi	ND	3.5 (44)	2.5 (8)	1.9 (50)	1.2 (10)	9.1 (27)	B C D E F G H I J K L M	120.8	
AmeriStand407TQ	4	3.7 (25)	2.5 (6)	2.0 (46)	1.0 (26)	9.1 (29)	B C D E F G H I J K L M	120.6	
54V09	4	3.7 (15)	2.3 (37)	2.2 (5)	0.8 (50)	9.1 (30)	B C D E F G H I J K L M N	120.4	
Legendairy	3	3.6 (34)	2.3 (42)	2.1 (13)	1.0 (28)	9.0 (33)	C D E F G H I J K L M N O	119.2	
Integra 8400	4	3.8 (8)	2.2 (51)	2.1 (18)	0.9 (37)	9.0 (34)	C D E F G H I J K L M N O	119.0	
MasterPiece	4	3.7 (23)	2.3 (43)	2.0 (37)	0.9 (36)	8.9 (37)	D E F G H I J K L M N O	118.3	
Rebound 5	4	3.7 (20)	2.4 (23)	1.9 (49)	0.9 (45)	8.9 (38)	D E F G H I J K L M N O	118.1	
Mountaineer 2	5	3.6 (36)	2.3 (33)	2.1 (26)	0.9 (43)	8.9 (40)	D E F G H I J K L M N O	117.9	
Whitney	4	3.7 (22)	2.3 (45)	2.0 (43)	0.9 (35)	8.9 (41)	E F G H I J K L M N O	117.8	
Magnum VI	4	3.6 (39)	2.3 (44)	2.1 (23)	0.8 (51)	8.7 (46)	H I J K L M N O	115.6	
FSG 505	5	3.6 (35)	2.1 (54)	2.1 (31)	0.9 (34)	8.7 (47)	H I J K L M N O	115.6	
WL 325 HQ	4	3.5 (42)	2.3 (40)	2.0 (38)	0.9 (47)	8.7 (48)	I J K L M N O	115.6	
Everlast II	4	3.6 (27)	2.2 (46)	2.0 (41)	0.8 (54)	8.6 (51)	K L M N O	114.3	
WL 343HQ	4	3.4 (50)	2.3 (41)	2.0 (47)	0.9 (42)	8.6 (52)	L M N O	113.8	
FSG 408DP	4	3.7 (26)	2.2 (47)	1.9 (53)	0.7 (55)	8.5 (53)	M N O	113.2	
Vernal	2	3.5 (46)	1.9 (56)	1.7 (56)	0.4 (56)	7.5 (56)	P	100.0	
<b>Experimental Varieties</b>									
R46Bx197	8	4.0 (3)	2.3 (36)	2.0 (48)	1.1 (17)	9.4 (9)	B C D E F	124.2	
R56Bx214	4	3.6 (37)	2.4 (26)	2.1 (19)	1.3 (6)	9.3 (10)	B C D E F G	123.7	
R56BD191	ND	3.7 (17)	2.5 (5)	2.0 (36)	1.0 (21)	9.3 (13)	B C D E F G H	123.3	
R46BD203	ND	3.6 (38)	2.4 (27)	2.1 (17)	1.2 (8)	9.3 (14)	B C D E F G H I	123.1	
R46Bx162	8	4.0 (2)	2.4 (21)	1.9 (52)	0.9 (40)	9.3 (16)	B C D E F G H I J	122.7	
R46BD201	ND	3.4 (49)	2.4 (16)	2.1 (27)	1.3 (3)	9.3 (17)	B C D E F G H I J	122.7	
R56BD190	ND	3.7 (18)	2.3 (31)	2.1 (15)	1.0 (23)	9.2 (19)	B C D E F G H I J	122.2	
R46Bx778	ND	4.1 (1)	2.4 (29)	1.9 (54)	0.9 (44)	9.2 (21)	B C D E F G H I J K	121.8	
R56BD188	ND	3.7 (16)	2.3 (30)	2.1 (29)	1.0 (22)	9.2 (22)	B C D E F G H I J K	121.6	
R46Bx167	4	3.6 (28)	2.4 (24)	2.2 (6)	1.0 (31)	9.2 (23)	B C D E F G H I J K L	121.5	
R46Bx163	4	3.7 (19)	2.4 (22)	2.1 (32)	1.0 (30)	9.1 (25)	B C D E F G H I J K L	121.1	
R46Bx164	6	3.5 (47)	2.4 (13)	2.1 (20)	1.1 (13)	9.1 (26)	B C D E F G H I J K L	121.0	
R46Bx775	ND	3.6 (32)	2.6 (1)	2.0 (35)	0.9 (46)	9.1 (28)	B C D E F G H I J K L M	120.8	
R46Bx218	6	3.4 (51)	2.4 (17)	2.1 (14)	1.1 (12)	9.1 (31)	B C D E F G H I J K L M N	120.1	
R46Bx777	ND	3.9 (5)	2.3 (34)	2.0 (44)	0.8 (48)	9.0 (32)	C D E F G H I J K L M N	119.8	
R46Bx217	8	3.2 (55)	2.4 (20)	2.1 (28)	1.3 (5)	9.0 (35)	C D E F G H I J K L M N O	119.0	
R46Bx165	8.5	3.5 (45)	2.4 (10)	2.0 (33)	1.0 (29)	9.0 (36)	C D E F G H I J K L M N O	118.8	
R46Bx160	5	3.4 (52)	2.3 (32)	2.1 (30)	1.1 (15)	8.9 (39)	D E F G H I J K L M N O	117.9	
R56Bx212	6	3.3 (53)	2.3 (38)	2.1 (25)	1.2 (11)	8.9 (42)	E F G H I J K L M N O	117.8	
TS 4028	4	3.8 (13)	2.3 (39)	2.0 (42)	0.8 (52)	8.9 (43)	F G H I J K L M N O	117.4	
R46Bx211	4.1	3.2 (54)	2.2 (49)	2.1 (22)	1.3 (4)	8.8 (44)	F G H I J K L M N O	116.9	
R56BD202	ND	3.5 (41)	2.2 (48)	2.0 (40)	1.0 (27)	8.8 (45)	G H I J K L M N O	116.0	
R46Bx173	5	3.6 (31)	2.4 (25)	1.9 (55)	0.8 (49)	8.7 (49)	J K L M N O	115.1	
R46Bx776	ND	3.6 (33)	2.2 (53)	2.1 (11)	0.8 (53)	8.7 (50)	J K L M N O	115.0	
R66BD108	ND	2.9 (56)	2.1 (55)	2.0 (45)	1.5 (1)	8.5 (54)	N O	112.8	
R46Bx161	6	3.5 (48)	2.2 (52)	1.9 (51)	0.9 (39)	8.5 (55)	O	112.0	
MEAN		3.63	2.34	2.06	1.01	9.05			
CV		8.7	9.0	7.4	13.1	6.1			
LSD (0.1)		0.33	0.22	0.16	0.14	0.59			

Trial seeded at 25 lb/acre viable seed at Intermountain Research and Extension Center, Tulelake, CA.

Entries followed by the same letter are not significantly different at the 10% probability level according to Fisher's (protected) LSD.

FD = Fall Dormancy reported by seed companies.

**TABLE 2. 2008 Yields, UC Davis Alfalfa Cultivar Trial (Trial planted Sept. 28, 2005)**

Note: Single year data should not be used to evaluate alfalfa varieties or choose alfalfa cultivars

		Cut 1	Cut 2	Cut 3	Cut 4	Cut 5	Cut 6	Cut 7	YEAR	% of
	FD	7-Apr	5-May	4-Jun	26-Jun	25-Jul	22-Aug	26-Sep	TOTAL	CUF101
		Dry t/a								%
<b>Released Varieties</b>										
WL535HQ	8	1.5 ( 9)	1.2 (23)	1.3 (34)	1.2 ( 6)	1.8 ( 3)	1.3 ( 3)	1.1 (10)	9.4 ( 1)	108.8
Magna 788	8	1.5 ( 8)	1.1 (31)	1.4 ( 8)	1.3 ( 5)	2.0 ( 1)	0.8 (40)	1.2 ( 5)	9.4 ( 2)	108.7
Wildcard	8	1.0 (43)	1.1 (27)	1.4 (20)	1.2 ( 7)	1.6 (17)	1.2 ( 7)	1.5 ( 1)	9.0 ( 6)	104.2
WL530HQ	8	1.0 (44)	1.2 (13)	1.4 (16)	1.0 (26)	1.7 (11)	1.2 ( 6)	1.2 ( 4)	8.7 (12)	100.9
CUF101	9	1.0 (42)	1.1 (29)	1.3 (30)	1.0 (34)	1.7 (14)	1.4 ( 2)	1.2 ( 8)	8.6 (16)	100.0
Artisan Sunrise	7	1.2 (25)	1.1 (28)	1.3 (29)	1.3 ( 2)	1.6 (16)	0.9 (31)	1.1 (13)	8.6 (18)	99.0
56S82	6	1.4 (13)	1.2 (14)	1.4 (22)	1.0 (27)	1.5 (28)	1.0 (21)	1.0 (18)	8.5 (19)	98.1
DKA50-18	5	1.1 (35)	1.2 (11)	1.4 (19)	1.0 (24)	1.5 (30)	1.2 ( 5)	1.0 (21)	8.5 (21)	98.0
HybriForce-620	6	1.3 (18)	1.2 (10)	1.5 ( 1)	0.9 (35)	1.7 (13)	0.9 (34)	0.9 (29)	8.4 (23)	97.7
Yosemite	8	1.1 (41)	1.2 (17)	1.2 (36)	0.9 (36)	1.6 (21)	1.3 ( 4)	1.2 ( 9)	8.4 (24)	97.5
Conquistador	8	1.2 (29)	1.2 (15)	1.2 (42)	1.1 (23)	1.7 (10)	1.0 (16)	1.1 (11)	8.4 (25)	96.9
Owyhee	6	1.6 ( 6)	1.2 (19)	1.4 (11)	0.9 (39)	1.5 (29)	0.9 (28)	0.9 (33)	8.3 (26)	96.5
Dura 843	8	1.1 (32)	1.2 ( 9)	1.2 (37)	1.2 (11)	1.5 (36)	1.0 (13)	1.0 (22)	8.3 (28)	95.9
57Q75	7	1.1 (37)	0.9 (43)	1.5 ( 6)	1.1 (14)	1.7 ( 8)	1.0 (18)	0.9 (25)	8.3 (29)	95.5
Mountaineer 2.0	5	1.4 (14)	1.2 (21)	1.5 ( 2)	0.8 (43)	1.6 (26)	0.9 (29)	0.9 (28)	8.3 (31)	95.4
DKA84-10RR	8.4	1.1 (40)	1.1 (34)	1.2 (40)	1.2 (12)	1.6 (18)	0.9 (26)	0.9 (30)	8.0 (34)	92.6
DKA41-18RR	4.1	0.9 (45)	1.0 (38)	1.3 (35)	1.3 ( 4)	1.6 (22)	1.0 (13)	0.8 (35)	7.9 (35)	91.0
DKA42-15	4	1.2 (27)	1.1 (33)	1.4 (13)	1.0 (32)	1.4 (40)	1.0 (22)	0.8 (40)	7.9 (36)	91.0
WL357HQ	5	1.1 (33)	1.0 (36)	1.4 ( 9)	0.8 (42)	1.6 (20)	0.8 (42)	1.1 (14)	7.8 (37)	90.8
DKA34-17RR	3.4	1.2 (30)	1.2 (20)	1.4 ( 7)	0.8 (41)	1.4 (41)	1.0 (19)	0.8 (44)	7.8 (38)	90.2
Sutter	7	1.1 (34)	0.9 (44)	1.4 (11)	1.0 (33)	1.5 (34)	0.9 (36)	0.8 (43)	7.6 (40)	88.1
DKA33-16	3	1.3 (19)	1.1 (35)	1.2 (41)	0.9 (38)	1.4 (38)	0.9 (37)	0.8 (39)	7.6 (41)	87.8
CW95026	5	1.3 (20)	0.9 (45)	1.4 (10)	1.0 (30)	1.4 (42)	0.7 (43)	0.8 (42)	7.6 (42)	87.4
Lahanton	5	1.4 (12)	1.1 (32)	1.2 (43)	1.0 (25)	1.7 (12)	0.5 (45)	0.7 (45)	7.5 (43)	87.3
Dura 512	5	1.1 (38)	1.0 (42)	1.3 (28)	0.8 (44)	1.6 (27)	0.9 (27)	0.8 (38)	7.4 (44)	85.9
<b>Experimental Varieties</b>										
DS588-Hyb	8	1.8 ( 1)	1.4 ( 2)	1.4 (18)	1.1 (15)	1.6 (24)	1.0 (17)	0.9 (26)	9.2 ( 3)	106.5
DS584-Hyb	8	1.4 (15)	1.3 ( 4)	1.5 ( 5)	1.2 ( 9)	1.7 ( 7)	1.1 (11)	1.0 (20)	9.1 ( 4)	105.6
DS566-Hyb	6	1.8 ( 2)	1.2 (16)	1.5 ( 3)	1.0 (31)	1.7 (15)	0.9 (33)	1.0 (16)	9.0 ( 5)	104.4
DS583-Hyb(HybriForce 700)	8	1.6 ( 5)	1.3 ( 6)	1.3 (32)	1.0 (28)	1.8 ( 4)	1.0 (20)	1.0 (17)	9.0 ( 7)	104.1
CW36077	6	1.6 ( 3)	1.4 ( 3)	1.3 (23)	1.1 (16)	1.5 (33)	1.1 (10)	0.9 (23)	9.0 ( 8)	103.6
DS589-Hyb+Optimize	8	1.1 (39)	1.2 ( 7)	1.4 (14)	1.2 (10)	1.7 ( 6)	0.9 (35)	1.2 ( 6)	8.8 ( 9)	101.7
SW9332	9	1.2 (26)	1.0 (39)	1.1 (44)	1.4 ( 1)	1.9 ( 2)	1.0 (23)	1.2 ( 7)	8.8 (10)	101.7
SW9434	9	1.1 (36)	1.0 (40)	1.3 (24)	1.1 (18)	1.5 (35)	1.4 ( 1)	1.3 ( 2)	8.7 (11)	101.2
CW17075	7	1.5 ( 7)	1.1 (25)	1.4 (17)	1.1 (22)	1.7 ( 9)	0.9 (30)	0.9 (27)	8.7 (13)	100.4
DS587-Hyb	8	1.3 (21)	1.2 (23)	1.3 (25)	1.1 (21)	1.4 (43)	1.2 ( 9)	1.3 ( 3)	8.7 (14)	100.4
DS566-Hyb+Optimize	6	1.3 (22)	1.2 (12)	1.5 ( 4)	1.1 (17)	1.7 ( 5)	0.9 (38)	1.0 (19)	8.6 (15)	100.0
SW6330	6	1.2 (24)	1.2 (21)	1.3 (33)	1.2 ( 8)	1.6 (25)	1.2 ( 8)	1.0 (15)	8.6 (17)	99.9
CW17075+Optimize	7	1.4 (11)	1.2 (18)	1.4 (21)	1.1 (20)	1.5 (32)	1.0 (15)	0.9 (32)	8.5 (20)	98.0
CW25006	5	1.5 (10)	1.2 ( 8)	1.2 (39)	1.1 (13)	1.5 (31)	1.1 (12)	0.8 (37)	8.5 (22)	97.7
CW94008+Optimize	4	1.2 (23)	1.5 ( 1)	1.3 (31)	0.9 (40)	1.6 (23)	1.0 (24)	0.9 (24)	8.3 (27)	95.9
SW5310	5	1.2 (31)	1.3 ( 5)	1.3 (26)	1.3 ( 3)	1.4 (39)	0.9 (25)	0.8 (34)	8.3 (30)	95.4
CW94008	4	1.6 ( 4)	1.0 (41)	1.4 (15)	1.1 (19)	1.5 (37)	0.8 (39)	0.8 (41)	8.2 (32)	94.6
DS589-Hyb	8	1.2 (28)	1.1 (26)	1.2 (38)	0.9 (37)	1.6 (19)	0.9 (32)	1.1 (12)	8.1 (33)	93.2
SW5407	5	1.4 (17)	1.0 (37)	1.3 (27)	1.0 (29)	1.4 (44)	0.8 (41)	0.9 (31)	7.8 (39)	89.9
CW25034	5	1.4 (16)	1.1 (30)	1.1 (45)	0.7 (45)	1.4 (45)	0.7 (44)	0.8 (36)	7.2 (45)	83.0
MEAN		1.29	1.14	1.34	1.06	1.60	0.98	0.98	8.38	
CV		27.9	21.0	16.1	22.1	19.3	24.8	26.6	11.1	
LSD (0.1)		0.43	NS	NS	0.28	NS	0.29	0.31	NS	

Trial seeded at 25 lb/acre viable seed on Yolo clay loam soil at the Univ. of California Agronomy Farm, Davis, CA.

Entries followed by the same letter are not significantly different at the 10% probability level according to Fishers (protected) LSD.

FD = Fall Dormancy reported by seed companies.

TABLE 3. 2006-2008 Yields, UC Davis Alfalfa Cultivar Trial (Trial planted Sept. 28, 2005)

		2006	2007	2008	Average		% of
	FD	Yield	Yield	Yield			CUF101
			Dry t/a				%
<b>Released Varieties</b>							
Wilcard	8	12.8 ( 1)	13.8 ( 2)	9.0 ( 6)	11.9 ( 1)	A	106.8
Magna 788	8	12.2 ( 11)	14.0 ( 1)	9.4 ( 2)	11.8 ( 2)	A B	106.6
WL535HQ	8	11.7 ( 27)	13.5 ( 3)	9.4 ( 1)	11.5 ( 5)	A B C D	103.8
WL530HQ	8	12.2 ( 12)	13.1 ( 10)	8.7 ( 12)	11.3 ( 11)	A B C D E F G	101.9
Conquistador	8	12.5 ( 3)	13.0 ( 11)	8.4 ( 25)	11.3 ( 12)	A B C D E F G	101.9
Yosemite	8	12.2 ( 10)	13.2 ( 9)	8.4 ( 24)	11.3 ( 14)	A B C D E F G H	101.5
Artisian Sunrise	7	12.3 ( 6)	12.7 ( 18)	8.6 ( 18)	11.2 ( 16)	A B C D E F G H I	100.6
CUF101	9	11.8 ( 24)	12.9 ( 15)	8.6 ( 16)	11.1 ( 18)	A B C D E F G H I J	100.0
HybriForce-620	6	12.2 ( 9)	12.6 ( 20)	8.4 ( 23)	11.1 ( 19)	A B C D E F G H I J	99.9
56S82	6	12.0 ( 17)	12.5 ( 22)	8.5 ( 19)	11.0 ( 22)	C D E F G H I J K	99.0
DKA84-10RR	8.4	12.0 ( 18)	12.7 ( 17)	8.0 ( 34)	10.9 ( 24)	C D E F G H I J K L	98.3
57Q75	7	11.8 ( 25)	12.4 ( 23)	8.3 ( 29)	10.8 ( 25)	C D E F G H I J K L M	97.3
Dura 843	8	11.8 ( 26)	12.1 ( 28)	8.3 ( 28)	10.7 ( 27)	E F G H I J K L M N O	96.4
DKA50-18	5	11.2 ( 33)	11.6 ( 36)	8.5 ( 21)	10.4 ( 31)	I J K L M N O P Q	93.9
Owyhee	6	11.2 ( 34)	11.7 ( 34)	8.3 ( 26)	10.4 ( 32)	I J K L M N O P Q R	93.7
Mountaineer 2.0	5	11.2 ( 35)	11.7 ( 35)	8.3 ( 31)	10.4 ( 34)	J K L M N O P Q R S	93.2
Sutter	7	11.2 ( 32)	11.5 ( 38)	7.6 ( 40)	10.1 ( 36)	L M N O P Q R S T	91.2
DKA41-18RR	4.1	10.7 ( 37)	11.8 ( 31)	7.9 ( 35)	10.1 ( 37)	M N O P Q R S T	90.9
WL357HQ	5	10.5 ( 40)	11.5 ( 39)	7.8 ( 37)	9.9 ( 38)	N O P Q R S T	89.4
Lahanton	5	10.6 ( 39)	11.6 ( 37)	7.5 ( 43)	9.9 ( 39)	O P Q R S T	89.3
DKA42-15	4	10.4 ( 43)	10.9 ( 40)	7.9 ( 36)	9.7 ( 41)	Q R S T	87.6
Dura 512	5	10.5 ( 42)	10.9 ( 41)	7.4 ( 44)	9.6 ( 42)	R S T	86.5
DKA33-16	3	10.5 ( 41)	10.7 ( 43)	7.6 ( 41)	9.6 ( 43)	S T	86.2
CW95026	5	10.3 ( 44)	10.5 ( 44)	7.6 ( 42)	9.5 ( 44)	T	85.1
DKA34-17RR	3.4	10.1 ( 45)	10.4 ( 45)	7.8 ( 38)	9.4 ( 45)	T	84.9
<b>Experimental Varieties</b>							
DS588-Hyb	8	12.6 ( 2)	13.0 ( 13)	9.2 ( 3)	11.6 ( 3)	A B C	104.5
SW9332	9	12.4 ( 4)	13.5 ( 4)	8.8 ( 10)	11.6 ( 4)	A B C	104.1
DS583-Hyb	8	12.1 ( 15)	13.4 ( 7)	9.0 ( 7)	11.5 ( 6)	A B C D E	103.5
DS589-Hyb+Optimize	8	12.3 ( 7)	13.4 ( 5)	8.8 ( 9)	11.5 ( 7)	A B C D E	103.4
DS566-Hyb	6	12.2 ( 13)	13.0 ( 12)	9.0 ( 5)	11.4 ( 8)	A B C D E F	102.6
DS584-Hyb	8	12.1 ( 16)	12.9 ( 14)	9.1 ( 4)	11.4 ( 9)	A B C D E F	102.3
SW9434	9	12.0 ( 19)	13.2 ( 8)	8.7 ( 11)	11.3 ( 10)	A B C D E F	102.0
CW36077	6	12.4 ( 5)	12.6 ( 21)	9.0 ( 8)	11.3 ( 13)	A B C D E F G	101.8
DS566-Hyb+Optimize	6	12.3 ( 8)	12.7 ( 19)	8.6 ( 15)	11.2 ( 15)	A B C D E F G H I	100.8
DS589-Hyb	8	12.0 ( 20)	13.4 ( 6)	8.1 ( 33)	11.1 ( 17)	A B C D E F G H I J	100.2
SW6330	6	12.2 ( 14)	12.3 ( 26)	8.6 ( 17)	11.1 ( 20)	B C D E F G H I J K	99.4
CW17075+Optimize	7	11.9 ( 22)	12.7 ( 16)	8.5 ( 20)	11.0 ( 21)	B C D E F G H I J K	99.3
DS587-Hyb	8	11.9 ( 21)	12.3 ( 25)	8.7 ( 14)	11.0 ( 23)	C D E F G H I J K	98.8
CW17075	7	11.5 ( 28)	12.0 ( 30)	8.7 ( 13)	10.7 ( 26)	D E F G H I J K L M N	96.6
CW25006	5	11.4 ( 30)	12.1 ( 27)	8.5 ( 22)	10.7 ( 28)	F G H I J K L M N O P	95.8
SW5310	5	11.5 ( 29)	11.8 ( 32)	8.3 ( 30)	10.5 ( 29)	G H I J K L M N O P Q	94.6
SW5407	5	11.4 ( 31)	12.4 ( 24)	7.8 ( 39)	10.5 ( 30)	H I J K L M N O P Q	94.4
CW94008+Optimize	4	10.9 ( 36)	12.1 ( 29)	8.3 ( 27)	10.4 ( 33)	I J K L M N O P Q R	93.7
CW25034	5	11.9 ( 23)	11.8 ( 33)	7.2 ( 45)	10.3 ( 35)	K L M N O P Q R S	92.5
CW94008	4	10.6 ( 38)	10.8 ( 42)	8.2 ( 32)	9.9 ( 40)	P Q R S T	88.7
MEAN		11.64	12.33	8.38	10.78		
CV		4.2	9.6	11.1	6.3		
LSD (0.1)		0.58	1.41	NS	0.81		

Trial seeded at 25 lb/acre viable seed on Yolo clay loam soil at the Univ. of California Agronomy Farm, Davis, CA.

Entries followed by the same letter are not significantly different at the 10% probability level according to Fisher's (protected) LSD.

FD = Fall Dormancy reported by seed companies.



**TABLE 4. 2008 YIELDS, UCD RR and Conventional Variety Trial. Trial planted 02/07/2007**

Note: Single year data should not be used to evaluate alfalfa varieties or choose alfalfa cultivars

	FD	RR	Cut 1	Cut 2	Cut 3	Cut 4	Cut 5	Cut 6	YEAR	% of CUF101
			8-Apr	7-May	10-Jun	11-Jul	20-Aug	2-Oct	TOTAL	
			Dry %a							%
SW 9720	9		1.9 ( 3)	1.6 ( 3)	2.0 ( 1)	1.6 (21)	1.4 ( 11)	1.0 (24)	9.5 ( 1) A	131.1
GrandSlam	8		1.8 (12)	1.5 ( 5)	1.8 ( 2)	1.9 ( 3)	1.6 ( 5)	0.9 (34)	9.5 ( 2) A	131.1
DKA Exp 6 RR	6	X	1.8 ( 7)	1.4 (12)	1.6 ( 4)	1.9 ( 4)	1.5 ( 8)	1.2 ( 6)	9.5 ( 3) A	131.1
Desert Sun 8.10RR(conv)	8		1.8 ( 8)	1.5 ( 9)	1.4 (17)	1.8 ( 5)	1.7 ( 3)	1.2 ( 8)	9.4 ( 4) A B	129.8
RRALF 8R100	8.5	X	1.3 (45)	1.5 ( 8)	1.7 ( 3)	1.9 ( 2)	1.7 ( 1)	1.2 ( 9)	9.2 ( 5) A B C	127.2
DKA50-18	5		1.7 (13)	1.8 ( 1)	1.5 (10)	1.9 ( 1)	1.1 (29)	1.1 (19)	9.1 ( 6) A B C D	125.7
Integra 8800	8		1.7 (19)	1.5 ( 6)	1.5 (14)	1.6 (19)	1.4 (10)	1.3 ( 3)	8.9 ( 7) A B C D E	123.4
Magna 801 FQ	8		1.7 (18)	1.6 ( 2)	1.5 ( 9)	1.5 (24)	1.5 ( 7)	1.1 (18)	8.9 ( 8) A B C D E	123.3
PGI 801	8		1.9 ( 5)	1.5 ( 7)	1.6 ( 8)	1.7 ( 9)	1.1 (30)	1.1 (13)	8.8 ( 9) A B C D E F	121.7
SW 7410	7		2.0 ( 2)	1.4 (16)	1.3 (30)	1.6 (16)	1.4 (12)	1.1 (11)	8.8 (10) A B C D E F	121.6
FG1 601RR	6	X	1.8 (11)	1.4 (11)	1.4 (19)	1.6 (17)	1.2 (22)	1.2 ( 5)	8.7 (11) A B C D E F G	120.1
Integra 8801R	8	X	1.4 (35)	1.4 (18)	1.4 (15)	1.7 (11)	1.3 (14)	1.4 ( 2)	8.7 (12) A B C D E F G H	119.8
DKA84-10RR	8	X	1.5 (28)	1.4 (17)	1.3 (29)	1.8 ( 6)	1.6 ( 4)	0.9 (33)	8.6 (13) A B C D E F G H	118.6
Desert Sun 8.10RR	8	X	1.5 (27)	1.4 (21)	1.3 (26)	1.7 (10)	1.7 ( 2)	0.9 (28)	8.6 (14) A B C D E F G H	118.2
CG9	9		1.6 (21)	1.3 (26)	1.6 ( 5)	1.6 (15)	1.3 (19)	1.1 (14)	8.6 (15) A B C D E F G H	118.1
ADF 05-801	8		1.6 (20)	1.4 (20)	1.6 ( 6)	1.7 (12)	1.1 (32)	1.1 (10)	8.5 (16) A B C D E F G H I	116.9
Tango	6		1.9 ( 6)	1.2 (30)	1.1 (35)	1.5 (25)	1.5 ( 6)	1.1 (20)	8.2 (17) A B C D E F G H I J	113.9
DKA65-10RR	6	X	2.0 ( 1)	1.2 (38)	1.4 (22)	1.4 (33)	1.3 (15)	1.0 (22)	8.2 (18) A B C D E F G H I J	113.9
AmeriStand 815TRR	7.5	X	1.3 (44)	1.4 (14)	1.5 (10)	1.7 ( 8)	1.3 (18)	0.9 (32)	8.2 (19) A B C D E F G H I J K	113.0
Revolution RR	8	X	1.6 (23)	1.1 (39)	1.3 (27)	1.5 (23)	1.3 (13)	1.2 ( 7)	8.2 (20) A B C D E F G H I J K	112.9
Revolution RR(conv)	8		1.6 (25)	1.5 ( 4)	1.5 (13)	1.5 (27)	1.2 (21)	0.8 (36)	8.1 (21) A B C D E F G H I J K	112.2
Dura 843	8		1.8 ( 9)	1.2 (33)	1.6 ( 6)	1.6 (20)	0.8 (45)	1.1 (16)	8.1 (22) A B C D E F G H I J K	111.4
WL 535HQ	8		1.4 (34)	1.2 (34)	1.2 (33)	1.6 (18)	1.5 ( 9)	1.0 (23)	7.9 (23) A B C D E F G H I J K	109.3
WL 357HQ	5		1.7 (17)	1.3 (24)	1.3 (32)	1.2 (41)	1.3 (20)	1.1 (17)	7.9 (24) A B C D E F G H I J K	108.7
DKA65-10RR(conv)	6		1.5 (30)	1.4 (21)	1.0 (40)	1.3 (40)	1.1 (23)	1.6 ( 1)	7.9 (25) A B C D E F G H I J K	108.5
RRALF 4R200	4	X	1.4 (39)	1.2 (32)	1.4 (23)	1.8 ( 7)	1.0 (36)	1.1 (21)	7.8 (26) A B C D E F G H I J K L	107.9
CW 95026	5		1.7 (16)	1.3 (32)	1.3 (28)	1.3 (36)	1.0 (40)	1.1 (12)	7.8 (27) B C D E F G H I J K L	107.3
TruTest	6		1.9 ( 4)	1.2 (27)	1.4 (25)	1.3 (39)	1.0 (41)	0.9 (29)	7.7 (28) C D E F G H I J K L	106.0
AmeriStand 855RR	8	X	1.3 (40)	1.4 (14)	0.9 (44)	1.4 (30)	1.3 (16)	1.3 ( 4)	7.6 (29) C D E F G H I J K L	105.4
PGI 424	4		1.7 (15)	1.0 (40)	1.5 (12)	1.7 (13)	1.0 (34)	0.7 (45)	7.6 (30) C D E F G H I J K L	105.3
Integra 8401 RR	4	X	1.3 (41)	1.3 (25)	1.4 (17)	1.4 (31)	1.3 (17)	0.9 (35)	7.6 (31) C D E F G H I J K L	105.2
WL 550RR	8	X	1.5 (32)	1.4 (13)	1.3 (30)	1.4 (31)	0.9 (42)	1.0 (25)	7.5 (32) C D E F G H I J K L	104.0
798	7		1.7 (14)	1.0 (41)	1.0 (38)	1.5 (26)	1.1 (24)	1.1 (15)	7.5 (33) D E F G H I J K L	103.2
WL 367RR/HQ	5	X	1.3 (43)	1.2 (31)	1.4 (20)	1.7 (14)	1.1 (27)	0.8 (42)	7.4 (34) D E F G H I J K L	102.4
PGI 447RR(conv)	4		1.8 (10)	1.2 (36)	1.2 (34)	1.4 (34)	1.0 (37)	0.8 (38)	7.3 (35) E F G H I J K L	101.4
CUF101	9		1.6 (24)	1.2 (28)	1.0 (42)	1.5 (28)	1.1 (31)	0.9 (27)	7.2 (36) E F G H I J K L	100.0
RRALF 6R100	6	X	1.5 (29)	1.2 (29)	1.1 (37)	1.4 (29)	1.1 (25)	0.8 (37)	7.2 (37) F G H I J K L	99.5
DKA41-18RR	4.1	X	1.4 (37)	1.2 (35)	1.4 (16)	1.2 (42)	1.1 (26)	0.8 (39)	7.1 (38) F G H I J K L	98.7
RRALF 4R200(conv)	4		1.5 (31)	1.5 (10)	1.1 (36)	1.1 (44)	1.0 (33)	0.9 (31)	7.1 (39) F G H I J K L	98.3
RRALF 6R100(conv)	6		1.6 (26)	1.0 (43)	1.4 (24)	1.3 (38)	0.9 (44)	1.0 (26)	7.1 (40) G H I J K L	97.6
FG1 501RR	5	X	1.4 (38)	1.4 (19)	1.0 (39)	1.3 (37)	1.0 (39)	0.9 (30)	7.0 (41) H I J K L	96.6
Integra 8400	4		1.5 (33)	1.0 (42)	1.4 (21)	1.4 (35)	0.9 (43)	0.7 (43)	6.8 (42) I J K L	94.4
Sutter	7		1.4 (36)	1.2 (37)	1.0 (41)	1.2 (43)	1.1 (27)	0.8 (40)	6.7 (43) J K L	92.1
PGI 447RR	4	X	1.3 (42)	0.9 (44)	0.9 (43)	1.6 (22)	1.0 (34)	0.8 (41)	6.5 (44) K L	89.6
GrandStand	4		1.6 (22)	0.9 (45)	0.9 (45)	1.1 (45)	1.0 (37)	0.7 (44)	6.1 (45) L	84.7
MEAN			1.60	1.30	1.35	1.53	1.22	1.01	8.01	
CV			23.2	26.6	27.6	25.3	37.6	38.1	17.8	
LSD (0.1)			NS	NS	0.44	NS	NS	NS	1.70	

Trial seeded at 25 lb/acre viable seed on Yolo clay loam soil at the Univ. of California Agronomy Farm, Davis, CA.

Entries followed by the same letter are not significantly different at the 10% probability level according to Fisher's (protected) LSD.

FD = Fall Dormancy reported by seed companies.

**TABLE 5. 2008 YIELDS, UCD RR and Conventional Variety Trial. Trial planted 02/07/2007**

	2007		2008		Average		% of CUF101
	FD	RR	Yield	Yield Dry t/a			
GrandSlam	8		8.7 ( 2)	9.5 ( 2)	9.1 ( 1)	A	127.0
DKA Exp 6 RR	6	X	8.5 ( 4)	9.5 ( 3)	9.0 ( 2)	A B	125.4
Desert Sun 8.10RR	8	X	9.1 ( 1)	8.6 ( 14)	8.8 ( 3)	A B C	122.9
Integra 8800	8		8.4 ( 6)	8.9 ( 7)	8.7 ( 4)	A B C D	120.7
RRALF 8R100	8.5	X	8.1 ( 15)	9.2 ( 5)	8.6 ( 5)	A B C D	120.5
DKA50-18	5		8.1 ( 13)	9.1 ( 6)	8.6 ( 6)	A B C D	120.0
Desert Sun 8.10RR(conv)	8	X	7.8 ( 19)	9.4 ( 4)	8.6 ( 7)	A B C D E	119.8
CG9	9		8.6 ( 3)	8.6 ( 15)	8.6 ( 8)	A B C D E	119.3
Magna 801 FQ	8		8.2 ( 11)	8.9 ( 8)	8.5 ( 9)	A B C D E	119.1
SW 7410	7		8.2 ( 8)	8.8 ( 10)	8.5 ( 10)	A B C D E F	118.7
PGI 801	8		8.1 ( 12)	8.8 ( 9)	8.5 ( 11)	A B C D E F	118.3
FG1 601 RR	6	X	8.2 ( 9)	8.7 ( 11)	8.4 ( 12)	A B C D E F G	117.7
ADF 05-801	8		8.4 ( 5)	8.5 ( 16)	8.4 ( 13)	A B C D E F G	117.7
SW 9720	9		7.3 ( 31)	9.5 ( 1)	8.4 ( 14)	A B C D E F G H	117.4
DKA84-10RR	8	X	8.0 ( 16)	8.6 ( 13)	8.3 ( 15)	A B C D E F G H I	115.8
AmeriStand 815TRR	7.5	X	8.3 ( 7)	8.2 ( 19)	8.3 ( 16)	A B C D E F G H I J	115.2
Revolution RR(conv)	8		8.2 ( 10)	8.1 ( 21)	8.2 ( 17)	A B C D E F G H I J	113.7
Integra 8801RR	8	X	7.6 ( 24)	8.7 ( 12)	8.1 ( 18)	A B C D E F G H I J	113.6
DKA65-10RR	6	X	7.6 ( 26)	8.2 ( 18)	7.9 ( 19)	A B C D E F G H I J K	110.2
Revolution RR	8	X	7.6 ( 25)	8.2 ( 20)	7.9 ( 20)	A B C D E F G H I J K	109.9
Dura 843	8		7.7 ( 22)	8.1 ( 22)	7.9 ( 21)	A B C D E F G H I J K	109.9
AmeriStand 855RR	8	X	8.1 ( 14)	7.6 ( 29)	7.9 ( 22)	A B C D E F G H I J K	109.6
Tango	6		7.4 ( 30)	8.2 ( 17)	7.8 ( 23)	A B C D E F G H I J K	108.9
PGI 424	4		7.9 ( 18)	7.6 ( 30)	7.7 ( 24)	B C D E F G H I J K	108.1
798	7		8.0 ( 17)	7.5 ( 33)	7.7 ( 25)	B C D E F G H I J K	107.8
TruTest	6		7.7 ( 21)	7.7 ( 28)	7.7 ( 26)	C D E F G H I J K	107.3
WL 535HQ	8		7.2 ( 32)	7.9 ( 23)	7.6 ( 27)	C D E F G H I J K L	105.6
CW 95026	5		7.4 ( 29)	7.8 ( 27)	7.6 ( 28)	C D E F G H I J K L	105.6
WL 367RR/HQ	5		7.6 ( 23)	7.4 ( 34)	7.5 ( 29)	C D E F G H I J K L M	105.1
Integra 8401 RR	4	X	7.4 ( 28)	7.6 ( 31)	7.5 ( 30)	D E F G H I J K L M	104.7
DKA41-18RR	4.1	X	7.8 ( 20)	7.1 ( 38)	7.4 ( 31)	D E F G H I J K L M	103.9
RRALF 4R200	4	X	7.0 ( 39)	7.8 ( 26)	7.4 ( 32)	D E F G H I J K L M	103.3
DKA65-10RR(conv)	6		6.9 ( 40)	7.9 ( 25)	7.4 ( 33)	D E F G H I J K L M	102.7
RRALF 4R200(conv)	4		7.5 ( 27)	7.1 ( 39)	7.3 ( 34)	E F G H I J K L M	101.7
PGI 447RR(conv)	4		7.1 ( 35)	7.3 ( 35)	7.2 ( 35)	F G H I J K L M	100.9
CUF101	9		7.1 ( 36)	7.2 ( 36)	7.2 ( 36)	G H I J K L M	100.0
RRALF 6R100	6	X	7.0 ( 38)	7.2 ( 37)	7.1 ( 37)	H I J K L M	99.3
WL 357HQ	5		6.3 ( 43)	7.9 ( 24)	7.1 ( 38)	I J K L M	98.8
RRALF 6R100(conv)	6		7.1 ( 37)	7.1 ( 40)	7.1 ( 39)	I J K L M	98.6
FG1 501 RR	5	X	7.1 ( 34)	7.0 ( 41)	7.1 ( 40)	I J K L M	98.6
WL 550RR	8	X	6.4 ( 42)	7.5 ( 32)	7.0 ( 41)	J K L M	97.4
GrandStand	4		7.2 ( 33)	6.1 ( 45)	6.7 ( 42)	K L M	93.2
Integra 8400	4		6.5 ( 41)	6.8 ( 42)	6.7 ( 43)	K L M	93.1
Sutter	7		5.9 ( 45)	6.7 ( 43)	6.3 ( 44)	L M	87.9
PGI 447RR	4	X	6.0 ( 44)	6.5 ( 44)	6.2 ( 45)	M	87.2
MEAN			7.61	8.01	7.81		
CV			15.3	17.8	14.0		
LSD (0.1)			1.38	1.70	1.30		

Trial seeded at 25 lb/acre viable seed on Yolo clay loam soil at the Univ. of California Agronomy Farm, Davis, CA.

Entries followed by the same letter are not significantly different at the 10% probability level according to Fisher's (protected) LSD.

FD = Fall Dormancy reported by seed companies.

**TABLE 6. 2008 YIELDS, WSREC ALFALFA CULTIVAR TRIAL. TRIAL PLANTED 10/13/06**

Note: Single year data should not be used to evaluate alfalfa varieties or choose alfalfa cultivars

	FD	Cut 1	Cut 2	Cut 3	Cut 4	Cut 5	Cut 6	Cut 7	YEAR	% of CUF101	
		2-Apr	2-May	3-Jun	3-Jul	4-Aug	3-Sep	3-Oct	TOTAL		
		Dry t/a									
<b>Released Varieties</b>											
Desert Sun 8. 10RR	8	1.7 ( 6)	2.2 ( 4)	1.8 ( 2)	2.2 ( 1)	2.0 ( 2)	1.8 ( 1)	1.6 ( 3)	13.3 ( 1)	A	120.4
Grandslam	8	1.8 ( 1)	2.1 ( 15)	2.0 ( 1)	2.0 ( 4)	2.0 ( 3)	1.7 ( 6)	1.6 ( 1)	13.1 ( 2)	A	119.5
WL 535HQ	8	1.7 ( 5)	2.1 ( 10)	1.8 ( 3)	2.0 ( 3)	2.0 ( 1)	1.7 ( 2)	1.6 ( 2)	13.0 ( 3)	A	118.5
Pacifico	8	1.7 ( 3)	2.2 ( 3)	1.7 ( 4)	2.1 ( 2)	1.9 ( 5)	1.7 ( 3)	1.5 ( 4)	12.8 ( 4)	AB	116.4
AL 999	9	1.7 ( 4)	2.2 ( 1)	1.7 ( 9)	1.9 ( 6)	1.9 ( 6)	1.7 ( 5)	1.5 ( 6)	12.5 ( 5)	ABC	113.4
INTEGRA 8900	9	1.6 ( 7)	2.1 ( 7)	1.6 ( 11)	1.8 ( 10)	1.8 ( 9)	1.6 ( 7)	1.4 ( 13)	12.0 ( 7)	ABCD	109.0
CW 1010	10	1.5 ( 14)	2.1 ( 5)	1.7 ( 7)	1.8 ( 11)	1.8 ( 10)	1.6 ( 8)	1.5 ( 7)	12.0 ( 8)	ABCDE	108.7
Dura 843	8	1.6 ( 10)	2.1 ( 6)	1.6 ( 17)	1.8 ( 9)	1.8 ( 7)	1.5 ( 11)	1.4 ( 11)	11.9 ( 9)	ABCDE	108.3
59N59	9	1.5 ( 17)	2.0 ( 20)	1.6 ( 12)	1.9 ( 5)	1.8 ( 8)	1.6 ( 9)	1.4 ( 9)	11.8 ( 11)	ABCDE	107.1
WL 660RR	9	1.6 ( 11)	2.1 ( 11)	1.7 ( 8)	1.8 ( 8)	1.7 ( 12)	1.5 ( 17)	1.4 ( 19)	11.8 ( 12)	ABCDE	106.9
AmeriStand 855RR	8	1.6 ( 9)	2.1 ( 12)	1.7 ( 5)	1.8 ( 12)	1.6 ( 16)	1.5 ( 14)	1.4 ( 10)	11.7 ( 13)	ABCDE	106.5
TriplePlay	9	1.6 ( 12)	2.1 ( 8)	1.6 ( 14)	1.7 ( 20)	1.6 ( 19)	1.5 ( 12)	1.4 ( 14)	11.4 ( 14)	ABCDEFG	103.7
Revolution	8	1.4 ( 21)	2.1 ( 13)	1.6 ( 10)	1.8 ( 14)	1.6 ( 15)	1.4 ( 19)	1.4 ( 18)	11.4 ( 16)	ABCDEFG	103.4
CW 909	9	1.5 ( 15)	2.1 ( 14)	1.5 ( 18)	1.8 ( 13)	1.5 ( 23)	1.4 ( 27)	1.4 ( 16)	11.2 ( 17)	ABCDEFG	101.9
RRALF 8R100	8.5	1.5 ( 20)	2.1 ( 17)	1.5 ( 20)	1.8 ( 15)	1.6 ( 21)	1.5 ( 13)	1.2 ( 31)	11.1 ( 18)	ABCDEFG	100.7
798 alfalfa	7	1.5 ( 13)	1.9 ( 32)	1.6 ( 15)	1.7 ( 18)	1.7 ( 14)	1.4 ( 30)	1.3 ( 22)	11.0 ( 19)	ABCDEFG	100.4
CW 801	8	1.4 ( 22)	2.1 ( 9)	1.6 ( 16)	1.6 ( 21)	1.6 ( 20)	1.4 ( 21)	1.2 ( 29)	11.0 ( 20)	ABCDEFGH	100.2
CUF101	9	1.5 ( 19)	2.1 ( 19)	1.5 ( 19)	1.5 ( 30)	1.6 ( 18)	1.5 ( 18)	1.4 ( 15)	11.0 ( 21)	ABCDEFGH	100.0
WL 625HQ	9	1.4 ( 23)	2.1 ( 16)	1.5 ( 25)	1.5 ( 28)	1.6 ( 17)	1.4 ( 22)	1.5 ( 5)	11.0 ( 22)	ABCDEFGH	99.7
WL 550RR	8	1.4 ( 28)	1.9 ( 30)	1.5 ( 21)	1.7 ( 19)	1.5 ( 24)	1.3 ( 32)	1.3 ( 23)	10.6 ( 23)	BCDEFGHI	96.6
Magna801FQ	8	1.5 ( 18)	2.0 ( 25)	1.4 ( 28)	1.6 ( 24)	1.3 ( 31)	1.4 ( 25)	1.3 ( 24)	10.5 ( 26)	CDEFGHI	95.3
Highline	9	1.4 ( 24)	1.9 ( 31)	1.5 ( 23)	1.5 ( 32)	1.4 ( 26)	1.4 ( 23)	1.3 ( 21)	10.5 ( 27)	CDEFGHI	95.2
UC-Impalo-WF	9	1.4 ( 25)	2.0 ( 27)	1.3 ( 33)	1.6 ( 22)	1.4 ( 30)	1.4 ( 24)	1.2 ( 28)	10.3 ( 29)	CDEFGHI	94.0
DKA84-10RR	8.4	1.3 ( 30)	2.0 ( 26)	1.4 ( 29)	1.5 ( 29)	1.4 ( 28)	1.4 ( 26)	1.2 ( 30)	10.3 ( 30)	CDEFGHI	93.5
INTEGRA 8801R	8	1.3 ( 33)	2.0 ( 22)	1.4 ( 30)	1.5 ( 27)	1.4 ( 29)	1.4 ( 28)	1.3 ( 27)	10.2 ( 31)	CDEFGHI	93.1
DKA65-10RR	6.5	1.5 ( 16)	1.8 ( 35)	1.3 ( 32)	1.4 ( 38)	1.3 ( 34)	1.2 ( 36)	1.2 ( 36)	9.7 ( 32)	DEFGHI	88.5
Conquistador	8	1.3 ( 34)	1.8 ( 36)	1.3 ( 34)	1.4 ( 36)	1.3 ( 35)	1.4 ( 29)	1.2 ( 32)	9.7 ( 34)	FGHI	87.9
AmeriStand 815TRR	7.5	1.3 ( 32)	1.7 ( 39)	1.4 ( 31)	1.4 ( 35)	1.2 ( 36)	1.3 ( 34)	1.1 ( 37)	9.4 ( 35)	F G H I	85.8
Sequoia	8	1.2 ( 37)	1.8 ( 34)	1.2 ( 40)	1.4 ( 37)	1.3 ( 33)	1.2 ( 35)	1.2 ( 35)	9.4 ( 36)	G H I J	85.2
Wilcard	8	1.2 ( 39)	1.7 ( 38)	1.3 ( 35)	1.5 ( 31)	1.2 ( 37)	1.2 ( 37)	1.1 ( 39)	9.3 ( 37)	G H I J	84.8
INTEGRA 8800	8	1.3 ( 31)	1.7 ( 41)	1.3 ( 36)	1.3 ( 39)	1.2 ( 39)	1.2 ( 38)	1.1 ( 38)	9.2 ( 38)	G H I J	83.8
RRALF 6R100	6	1.2 ( 38)	1.8 ( 33)	1.3 ( 39)	1.3 ( 40)	1.2 ( 38)	1.1 ( 39)	1.3 ( 26)	9.1 ( 39)	G H I J	83.1
Integra 8400R	4	1.0 ( 42)	1.5 ( 42)	1.0 ( 42)	1.0 ( 42)	0.8 ( 42)	1.0 ( 42)	0.8 ( 42)	7.1 ( 42)	J	64.4
<b>Experimental Varieties</b>											
CW 39060	9	1.7 ( 2)	2.0 ( 24)	1.7 ( 6)	1.8 ( 7)	1.9 ( 4)	1.5 ( 10)	1.4 ( 12)	12.1 ( 6)	ABC	110.1
CW 048069	8	1.6 ( 8)	2.2 ( 2)	1.6 ( 13)	1.7 ( 17)	1.7 ( 11)	1.5 ( 15)	1.5 ( 8)	11.8 ( 10)	ABCDE	107.4
ADF 05-801	8	1.4 ( 26)	2.1 ( 18)	1.5 ( 22)	1.7 ( 16)	1.7 ( 13)	1.7 ( 4)	1.3 ( 20)	11.4 ( 15)	ABCDEFG	103.7
SW 8421	8	1.3 ( 35)	2.0 ( 23)	1.4 ( 26)	1.6 ( 25)	1.5 ( 25)	1.5 ( 16)	1.4 ( 17)	10.6 ( 24)	BCDEFGHI	96.4
FGI 901RR	9	1.4 ( 29)	1.9 ( 29)	1.5 ( 24)	1.6 ( 26)	1.5 ( 22)	1.4 ( 20)	1.2 ( 34)	10.5 ( 25)	BCDEFGHI	95.6
TS-0002	9	1.4 ( 27)	2.0 ( 21)	1.4 ( 27)	1.6 ( 23)	1.4 ( 27)	1.3 ( 33)	1.3 ( 25)	10.4 ( 28)	CDEFGHI	94.7
CW 048065	8	1.2 ( 40)	1.9 ( 28)	1.3 ( 37)	1.4 ( 33)	1.3 ( 32)	1.3 ( 31)	1.2 ( 33)	9.7 ( 33)	DEFGHI	88.3
TS-7002	7	1.3 ( 36)	1.7 ( 40)	1.2 ( 41)	1.4 ( 34)	1.1 ( 41)	1.1 ( 40)	1.0 ( 41)	8.7 ( 40)	H I J	79.3
TS-8028	8	1.1 ( 41)	1.7 ( 37)	1.3 ( 38)	1.2 ( 41)	1.1 ( 40)	1.1 ( 41)	1.1 ( 40)	8.6 ( 41)	I J	78.2
MEAN		1.44	1.98	1.50	1.63	1.53	1.42	1.31	10.82		
CV		21.5	13.0	20.8	22.8	25.5	16.3	16.2	18.0		
LSD (0.1)		0.37	0.31	0.37	0.44	0.46	0.27	0.25	2.32		

Trial seeded at 25 lb/acre viable seed at WSREC, Five Points, CA.

Entries followed by the same letter are not significantly different at the 10% probability level according to Fisher's (protected) LSD.

FD = Fall Dormancy reported by seed companies.

**TABLE 7. 2007-2008 YIELDS, UC WSREC ALFALFA CULTIVAR TRIAL. TRIAL PLANTED 10/13/06**

		2007 Yield	2008 Yield	Average		% of CUF101
	FD	Dry t/a				%
<b>Released Varieties</b>						
Grandslam	8	12.1 ( 2)	13.1 ( 2)	12.6 ( 1)	A	112.2
WL 535HQ	8	11.9 ( 9)	13.0 ( 3)	12.5 ( 2)	A B	110.4
Desert Sun 8. 10RR	8	11.6 ( 18)	13.3 ( 1)	12.4 ( 3)	A B	110.1
Pacifico	8	12.0 ( 6)	12.8 ( 4)	12.4 ( 4)	A B	109.9
AL 999	9	11.7 ( 15)	12.5 ( 5)	12.1 ( 5)	A B C	107.2
INTEGRA 8900	9	11.9 ( 8)	12.0 ( 7)	11.9 ( 8)	A B C D	105.8
WL 660RR	9	12.0 ( 3)	11.8 ( 12)	11.9 ( 9)	A B C D	105.4
CW 1010	10	11.8 ( 12)	12.0 ( 8)	11.9 ( 10)	A B C D	105.3
59N59	9	11.8 ( 11)	11.8 ( 11)	11.8 ( 11)	A B C D E	104.6
AmeriStand 855RR	8	11.7 ( 14)	11.7 ( 13)	11.7 ( 12)	A B C D E F	103.8
TriplePlay	9	11.8 ( 10)	11.4 ( 14)	11.6 ( 13)	A B C D E F G	103.1
Revolution	8	11.6 ( 16)	11.4 ( 16)	11.5 ( 14)	A B C D E F G H	101.9
WL 625HQ	9	12.0 ( 4)	11.0 ( 22)	11.5 ( 15)	A B C D E F G H	101.8
Dura 843	8	10.9 ( 33)	11.9 ( 9)	11.4 ( 17)	A B C D E F G H I J	101.1
798 alfalfa	7	11.6 ( 20)	11.0 ( 19)	11.3 ( 18)	A B C D E F G H I J K	100.2
CUF101	9	11.5 ( 21)	11.0 ( 21)	11.3 ( 19)	A B C D E F G H I J K	100.0
CW 909	9	11.2 ( 25)	11.2 ( 17)	11.2 ( 20)	A B C D E F G H I J K	99.6
RRALF 8R100	8.5	11.2 ( 27)	11.1 ( 18)	11.2 ( 22)	B C D E F G H I J K	99.0
CW 801	8	11.2 ( 28)	11.0 ( 20)	11.1 ( 23)	B C D E F G H I J K	98.5
UC-Impalo-WF	9	11.6 ( 19)	10.3 ( 29)	10.9 ( 25)	C D E F G H I J K L	97.1
Magna801FQ	8	11.3 ( 24)	10.5 ( 26)	10.9 ( 26)	C D E F G H I J K L	96.6
Highline	9	11.2 ( 26)	10.5 ( 27)	10.9 ( 27)	C D E F G H I J K L	96.3
WL 550RR	8	11.0 ( 31)	10.6 ( 23)	10.8 ( 29)	C D E F G H I J K L	95.9
INTEGRA 8801R	8	10.9 ( 32)	10.2 ( 31)	10.6 ( 30)	D E F G H I J K L	94.0
DKA84-10RR	8.4	10.5 ( 38)	10.3 ( 30)	10.4 ( 31)	E F G H I J K L	92.2
Sequoia	8	11.3 ( 23)	9.4 ( 36)	10.4 ( 32)	F G H I J K L	91.9
AmeriStand 815TRR	7.5	11.1 ( 30)	9.4 ( 35)	10.2 ( 33)	G H I J K L	90.9
Conquistador	8	10.6 ( 36)	9.7 ( 34)	10.1 ( 35)	H I J K L	90.0
DKA65-10RR	6.5	10.5 ( 39)	9.7 ( 32)	10.1 ( 36)	H I J K L	89.7
Wildcard	8	10.6 ( 35)	9.3 ( 37)	10.0 ( 38)	J K L	88.6
INTEGRA 8800	8	10.7 ( 34)	9.2 ( 38)	9.9 ( 39)	K L	88.2
RRALF 6R100	6	10.2 ( 41)	9.1 ( 39)	9.7 ( 41)	L M	85.7
Integra 8400R	4	9.4 ( 42)	7.1 ( 42)	8.2 ( 42)	M	73.1
<b>Experimental Varieties</b>						
CW 39060	9	12.0 ( 5)	12.1 ( 6)	12.1 ( 6)	A B C	106.9
CW 048069	8	12.2 ( 1)	11.8 ( 10)	12.0 ( 7)	A B C D	106.5
ADF 05-801	8	11.5 ( 22)	11.4 ( 15)	11.4 ( 16)	A B C D E F G H I	101.5
TS-0002	9	12.0 ( 7)	10.4 ( 28)	11.2 ( 21)	B C D E F G H I J K	99.2
SW 8421	8	11.6 ( 17)	10.6 ( 24)	11.1 ( 24)	B C D E F G H I J K	98.4
FGI 901RR	9	11.1 ( 29)	10.5 ( 25)	10.8 ( 28)	C D E F G H I J K L	96.1
TS-8028	8	11.7 ( 13)	8.6 ( 41)	10.2 ( 34)	H I J K L	90.1
CW 048065	8	10.4 ( 40)	9.7 ( 33)	10.1 ( 37)	I J K L	89.1
TS-7002	7	10.6 ( 37)	8.7 ( 40)	9.7 ( 40)	L	85.7
MEAN		11.32	10.82	11.07		
CV		6.1	18.0	10.8		
LSD (0.1)		0.82	2.32	1.42		

Trial seeded at 25 lb/acre viable seed at WSREC, Five Points, CA.

Entries followed by the same letter are not significantly different at the 10% probability level according to Fisher's (protected) LSD.

FD = Fall Dormancy reported by seed companies.

2008 YIELDS, UC KEARNEY ALFALFA CULTIVAR TRIAL. TRIAL PLANTED 9/13/07

Note: Single year data should not be used to evaluate alfalfa varieties or choose alfalfa cultivars

		Cut 1	Cut 2	Cut 3	Cut 4	Cut 5	Cut 6	Cut 7	Cut 8	YEAR	% of	
	FD	16-Apr	14-May	11-Jun	9-Jul	6-Aug	3-Sep	3-Oct	29-Oct	TOTAL	CUF101	
<b>Released Varieties</b>												
WL 625HQ	9	2.2 ( 19)	1.6 ( 14)	1.7 ( 26)	1.8 ( 15)	1.9 ( 3)	1.5 ( 5)	1.6 ( 16)	1.5 ( 4)	13.8 ( 4)	ABC	122.2
HybriForce-800	8	2.4 ( 4)	1.7 ( 7)	1.9 ( 3)	1.9 ( 4)	1.8 ( 6)	1.3 ( 29)	1.4 ( 34)	1.2 ( 25)	13.8 ( 5)	ABCD	122.1
AL 999	9	2.1 ( 29)	1.6 ( 15)	1.8 ( 13)	2.0 ( 1)	1.8 ( 10)	1.4 ( 14)	1.5 ( 30)	1.4 ( 10)	13.6 ( 8)	ABCDE	120.1
SP 806	8	2.3 ( 10)	1.5 ( 19)	1.8 ( 7)	1.8 ( 10)	1.8 ( 11)	1.4 ( 15)	1.5 ( 23)	1.2 ( 22)	13.5 ( 10)	ABCDE	119.7
Daytona	8	2.3 ( 8)	1.8 ( 2)	1.9 ( 2)	1.8 ( 11)	1.6 ( 35)	1.3 ( 28)	1.4 ( 41)	1.2 ( 28)	13.4 ( 12)	ABCDE F	119.0
Tripleplay	9	2.1 ( 30)	1.5 ( 26)	1.6 ( 38)	1.7 ( 21)	1.8 ( 7)	1.4 ( 9)	1.5 ( 22)	1.4 ( 8)	13.1 ( 15)	ABCDEF G	116.4
Pacifico	9	2.1 ( 28)	1.3 ( 38)	1.8 ( 15)	1.8 ( 13)	1.9 ( 4)	1.4 ( 17)	1.5 ( 26)	1.3 ( 15)	13.1 ( 17)	ABCDEF G	115.9
Desert Sun 8.10RR	8	2.1 ( 30)	1.5 ( 20)	1.8 ( 21)	1.8 ( 16)	1.7 ( 25)	1.2 ( 31)	1.4 ( 39)	1.2 ( 29)	12.7 ( 23)	BCDEF GHI	112.6
Integra 8900	9	2.0 ( 40)	1.3 ( 45)	1.7 ( 33)	1.6 ( 37)	1.7 ( 22)	1.4 ( 12)	1.7 ( 7)	1.3 ( 12)	12.7 ( 24)	BCDEF GHI	112.6
Magna 995	9	2.2 ( 15)	1.7 ( 9)	1.8 ( 11)	1.7 ( 26)	1.6 ( 44)	1.1 ( 43)	1.5 ( 32)	1.1 ( 41)	12.7 ( 25)	BCDEF GHI	112.5
HybriForce-620	6	2.4 ( 7)	1.6 ( 13)	1.9 ( 5)	1.7 ( 20)	1.7 ( 34)	1.1 ( 45)	1.2 ( 51)	1.0 ( 47)	12.6 ( 29)	BCDEF GHI J	112.0
UC Impalo	9	1.9 ( 46)	1.5 ( 32)	1.8 ( 19)	1.9 ( 9)	1.6 ( 40)	1.3 ( 26)	1.4 ( 38)	1.2 ( 27)	12.5 ( 32)	BCDEF GHI J	110.9
Grandslam	8	2.3 ( 13)	1.3 ( 44)	1.7 ( 32)	1.5 ( 49)	1.8 ( 17)	1.3 ( 23)	1.5 ( 33)	1.2 ( 26)	12.4 ( 33)	BCDEF GHI J K	110.4
CG9	9	2.2 ( 17)	1.3 ( 42)	1.6 ( 40)	1.5 ( 44)	1.6 ( 36)	1.2 ( 34)	1.8 ( 4)	1.1 ( 36)	12.4 ( 34)	BCDEF GHI J K L	109.6
Pinal 9 RR	9	2.1 ( 37)	1.4 ( 33)	1.7 ( 23)	1.7 ( 32)	1.8 ( 16)	1.3 ( 30)	1.2 ( 50)	1.1 ( 34)	12.3 ( 35)	BCDEF GHI J K L M	109.2
Ameristand 855 RR	8	2.1 ( 36)	1.6 ( 17)	1.8 ( 18)	1.7 ( 24)	1.5 ( 52)	1.0 ( 53)	1.5 ( 27)	1.0 ( 48)	12.1 ( 38)	CDEF GHI J K L M	107.7
Magna 801FQ	8	1.9 ( 44)	1.3 ( 40)	1.6 ( 44)	1.6 ( 43)	1.6 ( 41)	1.2 ( 36)	1.8 ( 2)	1.2 ( 32)	12.1 ( 40)	CDEF GHI J K L M	107.5
Integra 8800	8	2.1 ( 35)	1.5 ( 31)	1.6 ( 36)	1.7 ( 31)	1.6 ( 45)	1.2 ( 39)	1.3 ( 45)	1.1 ( 35)	12.1 ( 41)	DEF GHI J K L M	106.9
WL 535HQ	8	1.8 ( 52)	1.3 ( 48)	1.4 ( 54)	1.4 ( 52)	1.6 ( 37)	1.3 ( 21)	1.7 ( 10)	1.3 ( 11)	11.9 ( 42)	EF GHI J K L M	105.3
AR-21	9	2.4 ( 5)	1.7 ( 10)	1.7 ( 28)	1.6 ( 42)	1.5 ( 56)	1.0 ( 55)	1.1 ( 55)	0.8 ( 55)	11.7 ( 43)	FGHI J K L M	104.1
Magna 801FQ+Optimize	8	1.8 ( 51)	1.3 ( 48)	1.6 ( 46)	1.7 ( 28)	1.6 ( 38)	1.2 ( 38)	1.3 ( 44)	1.2 ( 33)	11.6 ( 44)	GHI J K L M	103.2
AR-2	9	2.2 ( 22)	1.5 ( 30)	1.7 ( 29)	1.6 ( 39)	1.6 ( 47)	1.1 ( 50)	1.1 ( 53)	0.9 ( 52)	11.6 ( 47)	GHI J K L M	102.5
RRALF-8R100	8	2.2 ( 26)	1.1 ( 53)	1.6 ( 43)	1.5 ( 48)	1.6 ( 42)	1.2 ( 32)	1.3 ( 46)	1.1 ( 37)	11.5 ( 48)	GHI J K L M	102.1
DKA84-10 RR	8	1.8 ( 54)	1.3 ( 36)	1.6 ( 39)	1.6 ( 33)	1.7 ( 32)	1.2 ( 41)	1.3 ( 48)	1.0 ( 44)	11.5 ( 49)	GHI J K L M	102.0
CUF101	9	1.9 ( 45)	1.1 ( 55)	1.5 ( 52)	1.5 ( 46)	1.5 ( 54)	1.1 ( 51)	1.7 ( 8)	1.1 ( 43)	11.3 ( 50)	HI J K L M	100.0
59N59	9	2.1 ( 33)	0.9 ( 57)	1.4 ( 55)	1.3 ( 56)	1.6 ( 43)	1.2 ( 40)	1.6 ( 13)	1.1 ( 38)	11.3 ( 51)	HI J K L M	99.8
AR-9	9	2.5 ( 2)	1.4 ( 35)	1.5 ( 49)	1.4 ( 53)	1.5 ( 52)	1.0 ( 56)	1.0 ( 56)	0.8 ( 56)	11.1 ( 52)	I J K L M	98.0
Dura 843	8	2.5 ( 3)	1.6 ( 16)	1.6 ( 35)	1.5 ( 51)	1.4 ( 57)	0.9 ( 57)	0.9 ( 57)	0.6 ( 57)	10.9 ( 53)	J K L M	97.0
Integra 8801R RR	8	1.7 ( 56)	1.1 ( 52)	1.5 ( 50)	1.4 ( 54)	1.6 ( 46)	1.1 ( 48)	1.2 ( 52)	1.1 ( 42)	10.7 ( 56)	L M	94.9
Revolution RR	8	1.7 ( 55)	1.2 ( 51)	1.4 ( 56)	1.5 ( 50)	1.6 ( 48)	1.1 ( 49)	1.2 ( 49)	1.0 ( 50)	10.6 ( 57)	M	94.3
<b>Experimental Varieties</b>												
FG-95T284	9	2.2 ( 20)	2.0 ( 1)	1.9 ( 4)	1.9 ( 5)	1.9 ( 1)	1.6 ( 1)	1.6 ( 12)	1.5 ( 2)	14.7 ( 1)	A	130.1
FG-95T284+Optimize	9	2.1 ( 32)	1.8 ( 5)	1.8 ( 14)	1.9 ( 8)	1.8 ( 8)	1.6 ( 3)	1.5 ( 21)	1.4 ( 6)	13.9 ( 2)	AB	123.2
R95BD104 RR	9	2.5 ( 1)	1.6 ( 12)	1.8 ( 9)	1.8 ( 12)	1.8 ( 12)	1.4 ( 16)	1.5 ( 24)	1.3 ( 12)	13.9 ( 3)	AB	123.0
PGI 1007 BA	10	2.0 ( 38)	1.6 ( 18)	1.8 ( 10)	1.9 ( 6)	1.8 ( 12)	1.5 ( 4)	1.6 ( 15)	1.5 ( 5)	13.8 ( 6)	ABCD	121.9
R96BD105 RR	9	2.2 ( 25)	1.8 ( 4)	1.9 ( 6)	1.9 ( 3)	1.7 ( 18)	1.4 ( 13)	1.5 ( 28)	1.3 ( 18)	13.7 ( 7)	ABCD	121.4
CW 39060	9	2.1 ( 34)	1.7 ( 8)	2.0 ( 1)	1.9 ( 7)	1.8 ( 5)	1.4 ( 11)	1.4 ( 40)	1.3 ( 19)	13.6 ( 9)	ABCDE	120.1
CW 39087	9	1.9 ( 41)	1.4 ( 34)	1.8 ( 16)	1.8 ( 18)	1.9 ( 2)	1.6 ( 2)	1.6 ( 14)	1.6 ( 1)	13.5 ( 11)	ABCDE	119.5
SW8421	8	2.0 ( 39)	1.7 ( 6)	1.8 ( 8)	2.0 ( 2)	1.7 ( 20)	1.3 ( 20)	1.4 ( 35)	1.3 ( 21)	13.2 ( 13)	ABCDEF G	117.2
CW 19065	8	2.2 ( 21)	1.5 ( 22)	1.8 ( 16)	1.7 ( 22)	1.8 ( 15)	1.5 ( 7)	1.7 ( 5)	1.0 ( 51)	13.2 ( 14)	ABCDEF G	116.6
DS736	8	2.3 ( 11)	1.8 ( 3)	1.8 ( 11)	1.8 ( 17)	1.7 ( 33)	1.1 ( 46)	1.6 ( 20)	1.0 ( 46)	13.1 ( 16)	ABCDEF G	116.0
SW9332	9	1.9 ( 49)	1.5 ( 29)	1.8 ( 19)	1.8 ( 14)	1.8 ( 14)	1.3 ( 24)	1.7 ( 6)	1.3 ( 14)	13.1 ( 18)	ABCDEF G	115.8
CW 36106	7	1.9 ( 43)	1.5 ( 27)	1.7 ( 25)	1.7 ( 27)	1.7 ( 24)	1.4 ( 8)	1.7 ( 9)	1.2 ( 23)	12.9 ( 19)	BCDEF GH	114.3
FG-85M282	8	2.3 ( 14)	1.5 ( 24)	1.7 ( 24)	1.7 ( 25)	1.7 ( 26)	1.3 ( 22)	1.4 ( 37)	1.2 ( 24)	12.9 ( 20)	BCDEF GH	114.1
FG-85M282+Optimize	8	2.2 ( 24)	1.5 ( 25)	1.7 ( 30)	1.7 ( 29)	1.7 ( 29)	1.3 ( 27)	1.6 ( 17)	1.2 ( 31)	12.8 ( 21)	BCDEF GHI	113.1
DS0571-Optimize	7	2.3 ( 12)	1.6 ( 11)	1.7 ( 27)	1.6 ( 36)	1.6 ( 39)	1.2 ( 35)	1.6 ( 18)	1.1 ( 40)	12.7 ( 22)	BCDEF GHI	112.8
Chema 1	9	1.7 ( 57)	1.0 ( 56)	1.5 ( 48)	1.6 ( 38)	1.8 ( 9)	1.5 ( 6)	2.1 ( 1)	1.5 ( 3)	12.7 ( 26)	BCDEF GHI	112.4
DS732	8	2.3 ( 9)	1.3 ( 36)	1.7 ( 22)	1.7 ( 23)	1.7 ( 30)	1.1 ( 44)	1.4 ( 36)	1.3 ( 20)	12.6 ( 27)	BCDEF GHI J	112.1
9102	9	1.8 ( 53)	1.3 ( 39)	1.6 ( 44)	1.7 ( 30)	1.7 ( 28)	1.4 ( 10)	1.8 ( 3)	1.4 ( 7)	12.6 ( 28)	BCDEF GHI J	112.0
DS733	9	2.4 ( 6)	1.5 ( 21)	1.7 ( 33)	1.6 ( 40)	1.7 ( 31)	1.2 ( 37)	1.4 ( 42)	1.2 ( 30)	12.5 ( 30)	BCDEF GHI J	111.1
9101	9	1.9 ( 47)	1.3 ( 43)	1.6 ( 41)	1.7 ( 19)	1.7 ( 21)	1.3 ( 25)	1.7 ( 11)	1.3 ( 16)	12.5 ( 31)	BCDEF GHI J	111.0
R95BD106 RR	9	1.9 ( 42)	1.3 ( 47)	1.6 ( 37)	1.6 ( 35)	1.7 ( 23)	1.3 ( 19)	1.5 ( 25)	1.3 ( 17)	12.3 ( 36)	BCDEF GHI J K L M	109.1
SW115	9	1.9 ( 50)	1.2 ( 50)	1.6 ( 42)	1.6 ( 33)	1.7 ( 19)	1.4 ( 18)	1.5 ( 31)	1.4 ( 9)	12.2 ( 37)	BCDEF GHI J K L M	108.0
PGI 801	8	2.2 ( 23)	1.3 ( 46)	1.6 ( 47)	1.6 ( 41)	1.7 ( 27)	1.2 ( 33)	1.6 ( 19)	1.1 ( 39)	12.1 ( 39)	CDEF GHI J K L M	107.6
DS735	7	2.2 ( 18)	1.5 ( 23)	1.7 ( 31)	1.5 ( 47)	1.5 ( 51)	1.0 ( 54)	1.3 ( 43)	0.8 ( 54)	11.6 ( 45)	GHI J K L M	103.0
DS0571	7	2.1 ( 27)	1.5 ( 28)	1.5 ( 51)	1.5 ( 45)	1.6 ( 50)	1.1 ( 42)	1.3 ( 47)	1.0 ( 49)	11.6 ( 46)	GHI J K L M	102.9
DS734	7	2.2 ( 16)	1.3 ( 41)	1.5 ( 53)	1.4 ( 55)	1.5 ( 55)	1.0 ( 52)	1.1 ( 54)	0.8 ( 53)	10.9 ( 54)	J K L M	96.9
SW120	9	1.9 ( 48)	1.1 ( 54)	1.3 ( 57)	1.3 ( 57)	1.6 ( 49)	1.1 ( 47)	1.5 ( 29)	1.0 ( 45)	10.8 ( 55)	K L M	95.5
MEAN		2.10	1.45	1.67	1.67	1.69	1.26	1.47	1.17	12.49		
CV		14.2	31.5	19.6	18.0	8.3	8.7	18.7	13.3	11.6		
LSD (0.1)		0.35	NS	NS	NS	0.17	0.13	0.32	0.18	1.72		

Trial seeded at 25 lb/acre viable seed on Hanford fine sandy loam soil at the Univ. of Calif. Kearney Agricultural Center, Parlier, CA.  
 Entries followed by the same letter are not significantly different at the 10% probability level according to Fisher's (protected) LSD.  
 FD = Fall Dormancy reported by seed companies.

**TABLE 9. 2008 YIELDS, UC IMPERIAL VALLEY ALFALFA CULTIVAR TRIAL TRIAL PLANTED 11/30/2005**

Note: Single year data should not be used to evaluate alfalfa varieties or choose alfalfa cultivars

		Cut 1	Cut 2	Cut 3	Cut 4	Cut 5	Cut 6	Cut 7	Cut 8	YEAR	% of	
		14-Feb	1-Apr	29-Apr	29-May	24-Jun	25-Jul	26-Aug	1-Oct	TOTAL	CUF101	
	FD										Dry t/a	%
<b>Released Varieties</b>												
AL999	9	1.0 ( 7)	1.3 ( 1)	1.1 ( 2)	1.4 ( 1)	0.9 ( 4)	0.4 ( 3)	0.2 ( 6)	0.3 (15)	6.6 ( 1)	117.2	
59N49	9	1.0 ( 4)	1.2 (13)	1.0 ( 5)	1.3 ( 2)	1.0 ( 1)	0.3 (14)	0.2 ( 8)	0.3 ( 6)	6.4 ( 3)	114.7	
UC-Impalo-WF	9	1.0 ( 2)	1.2 (11)	0.9 (19)	1.1 (22)	0.8 (10)	0.4 ( 2)	0.2 ( 9)	0.4 ( 3)	6.2 ( 8)	109.5	
Highline	9	1.1 ( 1)	1.1 (22)	1.0 ( 8)	1.2 (15)	0.8 ( 7)	0.4 (11)	0.2 ( 7)	0.3 (10)	6.1 ( 9)	109.1	
CW 909	9	1.0 (12)	1.2 ( 8)	0.9 (25)	1.2 (14)	0.8 ( 6)	0.4 ( 5)	0.2 (13)	0.3 ( 5)	6.1 (10)	108.6	
El Camino 999	9	0.9 (24)	1.2 (16)	1.0 (18)	1.3 ( 6)	0.8 ( 9)	0.5 ( 1)	0.2 ( 2)	0.3 (12)	6.1 (11)	108.6	
El Camino 1010	10	1.0 (10)	1.3 ( 3)	1.0 (12)	1.2 (11)	0.7 (21)	0.3 (16)	0.2 (23)	0.2 (28)	5.9 (14)	105.4	
Royal 10	10	0.9 (20)	1.3 ( 7)	1.0 (13)	1.2 (10)	0.7 (20)	0.4 (10)	0.2 (20)	0.2 (18)	5.9 (15)	105.3	
El Camino 999 M/L	9	1.0 (13)	1.3 ( 4)	1.0 (14)	1.2 (12)	0.7 (18)	0.3 (20)	0.2 (18)	0.2 (27)	5.9 (16)	105.2	
HB8900 (91T403)	9	0.9 (15)	1.1 (26)	0.9 (24)	1.1 (20)	0.8 (16)	0.3 (14)	0.2 ( 3)	0.3 ( 7)	5.8 (18)	102.8	
WL 625 HQ	9	0.9 (14)	1.2 (17)	0.9 (26)	1.2 (19)	0.8 (17)	0.3 (23)	0.2 (12)	0.3 (17)	5.7 (20)	101.5	
Max Royal	9	1.0 ( 5)	1.1 (24)	1.0 (16)	1.1 (26)	0.7 (27)	0.3 (13)	0.2 (11)	0.2 (19)	5.6 (22)	100.4	
CUF101	9	0.9 (19)	1.2 (15)	1.0 (15)	1.2 (17)	0.7 (22)	0.3 (22)	0.1 (28)	0.2 (24)	5.6 (23)	100.0	
TriplePlay	9	0.9 (25)	1.2 (11)	0.9 (23)	1.2 (16)	0.7 (23)	0.3 (26)	0.1 (27)	0.2 (26)	5.5 (25)	98.3	
Belleza Verde	10	0.8 (28)	1.2 (14)	0.9 (21)	1.1 (25)	0.7 (25)	0.3 (28)	0.2 (25)	0.2 (20)	5.4 (27)	96.0	
El Camino 888	8	0.8 (27)	1.1 (21)	0.9 (20)	1.1 (24)	0.6 (28)	0.3 (17)	0.1 (26)	0.2 (23)	5.4 (28)	95.9	
<b>Experimental Varieties</b>												
CW 20046	10	1.0 ( 9)	1.3 ( 5)	1.1 ( 1)	1.3 ( 3)	0.9 ( 2)	0.4 ( 8)	0.2 ( 5)	0.3 ( 9)	6.5 ( 2)	116.2	
SW9434	9	1.0 ( 6)	1.1 (22)	1.0 (17)	1.2 (13)	0.8 (13)	0.4 ( 4)	0.3 ( 1)	0.4 ( 2)	6.3 ( 4)	111.4	
ADF 05801	9	0.9 (22)	1.2 ( 8)	1.0 ( 4)	1.3 ( 4)	0.9 ( 5)	0.4 ( 7)	0.2 (19)	0.3 ( 8)	6.2 ( 5)	110.4	
IVM5	9	1.0 ( 3)	1.3 ( 2)	1.0 ( 3)	1.3 ( 5)	0.8 (13)	0.3 (25)	0.2 (22)	0.3 (14)	6.2 ( 6)	110.3	
DS593	9	1.0 (11)	1.2 (18)	1.0 (10)	1.2 ( 9)	0.9 ( 3)	0.4 ( 6)	0.2 ( 4)	0.3 (15)	6.2 ( 7)	109.7	
SW9332	9	0.9 (21)	1.1 (27)	1.0 ( 7)	1.2 ( 8)	0.8 (11)	0.4 ( 9)	0.2 (10)	0.4 ( 1)	6.0 (12)	107.1	
CW19062	10	0.9 (17)	1.2 (10)	1.0 (11)	1.3 ( 6)	0.8 ( 8)	0.3 (19)	0.2 (16)	0.2 (21)	6.0 (13)	106.8	
UC-409	10	1.0 ( 8)	1.2 (20)	0.9 (22)	1.2 (18)	0.7 (19)	0.3 (18)	0.2 (17)	0.3 (13)	5.8 (17)	103.2	
DS594	9	0.9 (23)	1.1 (25)	1.0 ( 8)	1.1 (21)	0.8 (12)	0.3 (21)	0.2 (24)	0.3 (11)	5.7 (19)	102.3	
DS595	9	0.9 (26)	1.3 ( 6)	1.0 ( 6)	1.0 (28)	0.7 (24)	0.4 (12)	0.2 (15)	0.2 (22)	5.7 (21)	100.8	
101T409	10	0.9 (16)	1.2 (19)	0.9 (27)	1.1 (23)	0.8 (15)	0.3 (27)	0.2 (21)	0.2 (25)	5.6 (24)	99.3	
UC-410	10	0.9 (18)	1.1 (28)	0.9 (28)	1.1 (27)	0.7 (26)	0.3 (24)	0.2 (14)	0.3 ( 4)	5.4 (26)	96.2	
MEAN		0.95	1.20	0.97	1.19	0.77	0.36	0.20	0.28	5.92		
CV		12.0	11.2	13.0	11.2	17.5	34.7	33.2	30.5	11.5		
LSD (0.1)		NS	NS	NS	NS	NS	NS	NS	NS	NS		

Trial planted at 25 lb/acre viable seed in Imperial clay loam soil at the UC Desert Research and Extension Center, Holtville, CA.  
 Entries followed by the same letter are no significantly different at the 10% probability level according to Fishers (protected) LSD.  
 FD= Fall Dormancy reported by seed companies.

**TABLE 10. 2006-2008 YIELDS, UC IMPERIAL VALLEY ALFALFA CULTIVAR TRIAL. TRIAL PLANTED 11/30/2005**

		2006	2007	2008	Average	% of
		Yield	Yield	Yield		CUF101
	FD		Dry t/a			%
<b>Released Varieties</b>						
UC-Impalo-WF	9	7.8 ( 2)	7.4 ( 5)	6.2 ( 8)	7.1 ( 2)	113.5
59N49	9	7.5 ( 6)	7.4 ( 6)	6.4 ( 3)	7.1 ( 3)	113.5
Highline	9	7.5 ( 5)	7.6 ( 1)	6.1 ( 9)	7.1 ( 4)	112.8
Royal 10	10	7.8 ( 1)	7.2 ( 8)	5.9 ( 15)	7.0 ( 6)	111.4
AL999	9	7.1 ( 16)	6.5 ( 21)	6.6 ( 1)	6.8 ( 10)	107.8
El Camino 1010	10	7.3 ( 13)	7.1 ( 10)	5.9 ( 14)	6.7 ( 11)	107.6
CW 909	9	7.3 ( 11)	6.8 ( 13)	6.1 ( 10)	6.7 ( 12)	107.6
El Camino 999	9	7.2 ( 14)	6.8 ( 14)	6.1 ( 11)	6.7 ( 13)	107.0
WL 625 HQ	9	7.4 ( 7)	6.8 ( 15)	5.7 ( 20)	6.6 ( 14)	106.0
El Camino 999 M/L	9	6.9 ( 20)	7.0 ( 11)	5.9 ( 16)	6.6 ( 15)	105.5
HB8900 (91T403)	9	7.0 ( 19)	7.0 ( 12)	5.8 ( 18)	6.6 ( 16)	105.2
Max Royal	9	7.2 ( 15)	6.7 ( 17)	5.6 ( 22)	6.5 ( 18)	103.8
El Camino 888	8	7.4 ( 9)	6.5 ( 20)	5.4 ( 28)	6.5 ( 19)	103.1
TriplePlay	9	7.1 ( 17)	6.5 ( 22)	5.5 ( 25)	6.4 ( 21)	101.8
CUF101	9	6.6 ( 27)	6.6 ( 19)	5.6 ( 23)	6.3 ( 24)	100.0
Belleza Verde	10	6.9 ( 21)	6.0 ( 25)	5.4 ( 27)	6.1 ( 26)	96.9
<b>Experimental Varieties</b>						
CW 20046	10	7.5 ( 3)	7.5 ( 3)	6.5 ( 2)	7.2 ( 1)	114.7
DS593	9	7.4 ( 8)	7.5 ( 2)	6.2 ( 7)	7.1 ( 5)	112.5
ADF 05801	9	7.5 ( 4)	7.1 ( 9)	6.2 ( 5)	7.0 ( 7)	110.9
SW9434	9	7.1 ( 18)	7.4 ( 4)	6.3 ( 4)	6.9 ( 8)	110.2
UC-409	10	7.3 ( 10)	7.3 ( 7)	5.8 ( 17)	6.8 ( 9)	108.6
DS594	9	7.3 ( 12)	6.7 ( 16)	5.7 ( 19)	6.6 ( 17)	105.0
SW9332	9	6.6 ( 25)	6.6 ( 18)	6.0 ( 12)	6.4 ( 20)	102.5
CW19062	10	6.6 ( 24)	6.4 ( 23)	6.0 ( 13)	6.4 ( 22)	101.3
IVM5	9	6.7 ( 22)	6.1 ( 24)	6.2 ( 6)	6.3 ( 23)	101.1
DS595	9	6.7 ( 23)	5.9 ( 28)	5.7 ( 21)	6.1 ( 25)	97.2
101T409	10	6.6 ( 26)	6.0 ( 26)	5.6 ( 24)	6.0 ( 27)	96.5
UC-410	10	6.3 ( 28)	5.9 ( 27)	5.4 ( 26)	5.9 ( 28)	93.9
MEAN		7.14	6.80	5.92	6.62	
CV		9.0	11.9	11.5	9.4	
LSD (0.1)		0.77	0.98	NS	NS	

Trial planted at 25 lb/acre viable seed in Imperial clay loam soil at the UC Desert Research and Extension Center, Holtville, CA. Entries followed by the same letter are no significantly different at the 10% probability level according to Fishers (protected) LSD. FD = Fall Dormancy reported by seed companies.

**TABLE 11. 2006-2008 YIELDS, UC SCOTT VALLEY ALFALFA CULTIVAR TRIAL. TRIAL PLANTED 5/04/06**

		2006	2007	2008	Average		% of
	FD	Yield	Yield	Yield			Vernal
			Dry t/a				%
Integra 8400	4	4.6 ( 21)	9.1 ( 1)	8.8 ( 1)	7.5 ( 1)	A	123.8
Xtra-3	4	5.5 ( 1)	8.7 ( 2)	8.0 ( 13)	7.4 ( 2)	A B	122.8
Dura 512	5	4.9 ( 6)	8.4 ( 11)	8.7 ( 3)	7.3 ( 3)	A B C	121.3
PGI 459	4	4.7 ( 15)	8.4 ( 6)	8.7 ( 2)	7.3 ( 4)	A B C D	120.7
Rebound 5.0	4	4.8 ( 12)	8.4 ( 7)	8.7 ( 4)	7.3 ( 5)	A B C D E	120.6
DS417	4	5.3 ( 2)	8.4 ( 8)	8.0 ( 17)	7.2 ( 6)	A B C D E F	119.9
FSG 505	5	4.6 ( 19)	8.6 ( 3)	8.3 ( 7)	7.2 ( 7)	A B C D E F	118.9
MasterPiece	4	4.8 ( 11)	8.6 ( 4)	8.0 ( 14)	7.1 ( 8)	B C D E F G	118.2
Masterpiece	4	4.7 ( 17)	8.3 ( 14)	8.3 ( 6)	7.1 ( 9)	B C D E F G	117.5
GrandStand	4	4.2 ( 30)	8.4 ( 9)	8.6 ( 5)	7.1 ( 10)	C D E F G H	117.0
Mountaineer 2.0	5	4.8 ( 10)	8.4 ( 12)	8.0 ( 16)	7.1 ( 11)	C D E F G H	117.0
Power 4.2 (PI + Alleg)	4	4.6 ( 23)	8.6 ( 5)	8.0 ( 19)	7.0 ( 12)	C D E F G H	116.6
CW 500	5	4.8 ( 8)	8.2 ( 23)	8.1 ( 12)	7.0 ( 13)	C D E F G H I	116.2
WL 325HQ	4	4.6 ( 20)	8.3 ( 19)	8.1 ( 11)	7.0 ( 14)	C D E F G H I	115.9
WL 357HQ	5	4.9 ( 5)	8.2 ( 21)	7.8 ( 24)	7.0 ( 15)	C D E F G H I	115.8
Power 4.2 (Coated)	4	4.7 ( 16)	8.3 ( 15)	7.8 ( 23)	7.0 ( 16)	D E F G H I J	115.2
AmeriStand 407TQ	4	4.4 ( 27)	8.3 ( 17)	8.2 ( 8)	7.0 ( 17)	D E F G H I J	115.2
Boulder	5	4.6 ( 22)	8.4 ( 13)	7.9 ( 20)	7.0 ( 18)	E F G H I J	115.1
HybriForce620	6	5.1 ( 4)	8.2 ( 22)	7.5 ( 26)	7.0 ( 19)	F G H I J K	115.0
Whitney	4	4.6 ( 18)	8.3 ( 18)	7.9 ( 21)	6.9 ( 20)	F G H I J K	114.8
PGI 424	4	4.9 ( 7)	8.4 ( 10)	7.5 ( 28)	6.9 ( 21)	F G H I J K L	114.7
DKA50-18	5	4.5 ( 25)	8.3 ( 16)	8.0 ( 15)	6.9 ( 22)	F G H I J K L	114.5
WL 319HQ	3	4.5 ( 26)	8.1 ( 25)	8.2 ( 9)	6.9 ( 23)	F G H I J K L	114.5
Expedition	5	4.5 ( 24)	8.1 ( 26)	8.0 ( 18)	6.8 ( 24)	G H I J K L	113.2
Mariner III	4	4.8 ( 9)	8.2 ( 20)	7.2 ( 29)	6.8 ( 25)	H I J K L M	111.7
WL 355RR	4	4.8 ( 13)	7.8 ( 29)	7.5 ( 27)	6.7 ( 26)	I J K L M	110.8
RRALF 4R200	4	4.0 ( 32)	7.8 ( 28)	8.1 ( 10)	6.7 ( 27)	J K L M	110.0
WL 343HQ	4	4.1 ( 31)	7.9 ( 27)	7.8 ( 22)	6.6 ( 28)	K L M	109.6
HybriForce420/wet	4	5.2 ( 3)	8.1 ( 24)	6.5 ( 31)	6.6 ( 29)	L M	109.3
DKA41-18RR	4	4.3 ( 29)	7.5 ( 31)	7.7 ( 25)	6.5 ( 30)	M	107.7
FSG 408DP	4	4.7 ( 14)	7.8 ( 30)	6.8 ( 30)	6.4 ( 31)	M	106.5
Vernal	2	4.4 ( 28)	7.5 ( 32)	6.2 ( 32)	6.0 ( 32)		100.0
MEAN		4.69	8.26	7.91	6.95		
CV		8.5	4.0	6.1	4.0		
LSD (0.1)		0.48	0.40	0.58	0.33		

Trial seeded at 25 lb/acre viable seed at Scott Valley, CA.

Entries followed by the same letter are not significantly different at the 10% probability level according to Fisher's (protected) LSD.

FD = Fall Dormancy reported by seed companies.



**TABLE 12. 2008 YIELDS, UC SCOTT VALLEY ALFALFA CUTIVAR TRIAL. TRIAL PLANTED 5/04/2006**

Note: Single year data should not be used to evaluate alfalfa varieties or choose alfalfa cultivars

		Cut 1	Cut 2	Cut 3	YEAR		% of
		17-Jun	21-Jul	6-Sep	TOTAL		VERNAL
	FD	Dry t/a					%
Integra 8400	4	4.3 ( 2)	2.6 ( 4)	1.9 ( 5)	8.8 ( 1)	A	141.2
PGI 459	4	4.2 ( 4)	2.6 ( 2)	1.9 ( 2)	8.7 ( 2)	AB	140.4
Dura 512	5	4.3 ( 1)	2.5 ( 5)	1.9 ( 6)	8.7 ( 3)	ABC	139.8
Rebound 5.0	4	4.2 ( 3)	2.6 ( 3)	1.8 ( 9)	8.7 ( 4)	ABC	139.5
GrandStand	4	4.0 ( 7)	2.6 ( 1)	1.9 ( 1)	8.6 ( 5)	ABCD	138.3
Masterpiece	4	4.0 ( 9)	2.4 ( 9)	1.9 ( 4)	8.3 ( 6)	ABCDE	133.7
FSG 505	5	3.9 ( 13)	2.5 ( 6)	1.9 ( 7)	8.3 ( 7)	ABCDEF	133.4
AmeriStand 407TQ	4	3.9 ( 12)	2.5 ( 7)	1.8 ( 12)	8.2 ( 8)	ABCDEF	132.1
WL 319HQ	3	4.1 ( 5)	2.4 ( 20)	1.7 ( 17)	8.2 ( 9)	BCDEF	131.7
RRALF 4R200	4	3.9 ( 15)	2.4 ( 8)	1.8 ( 11)	8.1 ( 10)	CDEF	131.0
WL 325HQ	4	4.1 ( 6)	2.4 ( 18)	1.7 ( 24)	8.1 ( 11)	CDEF	131.0
CW 500	5	3.9 ( 11)	2.4 ( 19)	1.8 ( 13)	8.1 ( 12)	DEFG	130.0
Xtra-3	4	3.8 ( 20)	2.4 ( 13)	1.8 ( 8)	8.0 ( 13)	DEFG	129.4
MasterPiece	4	3.9 ( 14)	2.3 ( 24)	1.8 ( 10)	8.0 ( 14)	DEFG	129.2
DKA50-18	5	3.9 ( 17)	2.4 ( 11)	1.7 ( 21)	8.0 ( 15)	DEFG	129.0
Mountaineer 2.0	5	3.8 ( 19)	2.4 ( 10)	1.7 ( 16)	8.0 ( 16)	EFG	128.7
DS417	4	4.0 ( 10)	2.3 ( 23)	1.7 ( 23)	8.0 ( 17)	EFG	128.6
Expedition	5	3.9 ( 16)	2.4 ( 16)	1.7 ( 22)	8.0 ( 18)	EFG	128.6
Power 4.2 (PI + Alleg)	4	4.0 ( 8)	2.4 ( 14)	1.6 ( 29)	8.0 ( 19)	EFG	128.5
Boulder	5	3.8 ( 21)	2.4 ( 12)	1.8 ( 14)	7.9 ( 20)	EFG	127.7
Whitney	4	3.7 ( 24)	2.3 ( 21)	1.9 ( 3)	7.9 ( 21)	EFG	127.6
WL 343HQ	4	3.7 ( 23)	2.4 ( 17)	1.8 ( 15)	7.8 ( 22)	EFG	126.4
Power 4.2 (Coated)	4	3.9 ( 18)	2.3 ( 27)	1.7 ( 20)	7.8 ( 23)	EFG	126.4
WL 357HQ	5	3.7 ( 22)	2.4 ( 15)	1.7 ( 18)	7.8 ( 24)	EFG	126.2
DKA41-18RR	4	3.6 ( 25)	2.3 ( 22)	1.7 ( 19)	7.7 ( 25)	FCH	124.2
HybriForce620	6	3.6 ( 27)	2.3 ( 26)	1.7 ( 26)	7.5 ( 26)	GH	121.6
WL 355RR	4	3.6 ( 28)	2.3 ( 25)	1.7 ( 27)	7.5 ( 27)	GH	121.1
PGI 424	4	3.6 ( 26)	2.2 ( 28)	1.7 ( 25)	7.5 ( 28)	GH	121.0
Mariner III	4	3.4 ( 29)	2.1 ( 29)	1.6 ( 28)	7.2 ( 29)	HI	115.9
FSG 408DP	4	3.4 ( 30)	2.0 ( 31)	1.4 ( 30)	6.8 ( 30)	I J	109.9
HybriForce420/wet	4	3.1 ( 32)	2.1 ( 30)	1.3 ( 31)	6.5 ( 31)	JK	105.2
Vernal	2	3.1 ( 31)	1.9 ( 32)	1.2 ( 32)	6.2 ( 32)	K	100.0
MEAN		3.82	2.36	1.73	7.91		
CV		7.6	7.5	7.9	6.1		
LSD (0.1)		0.35	0.21	0.16	0.58		

Trial seeded at 25 lb/acre viable seed at Scott Valley, CA.

Entries followed by the same letter are not significantly different at the 10% probability level according to Fisher's (protected) LSD.

FD = Fall Dormancy reported by seed companies.

Table 13. 2008 UC ALFALFA FALL DORMANCY TRIAL RESULTS.

The three-location trial represents Intermountain (Tulelake), Mediterranean (Davis) and Desert (Imperial Valley) environments.

Fall Dormancy year	Multi-FDR <sup>2</sup>	Name	Tulelake <sup>3</sup>			Davis <sup>3</sup>			Imperial Valley <sup>3</sup>			Across locations			2008 FDR <sup>5</sup>
			Score	NPH <sup>4</sup>	Rank	Score	NPH <sup>4</sup>	Rank	Score	NPH <sup>4</sup>	Rank	Score	NPH <sup>4</sup>	Rank	
11	11.2	<b>UC-1465</b>	8.63	2.94	68	9.05	3.01	68	8.11	2.85	52	8.56	2.92	68	10.02
		UC-2558	7.77	2.79	57	8.12	2.85	62	8.90	2.98	68	8.24	2.87	67	9.70
10	9.9	<b>UC-1887</b>	7.33	2.71	34	8.73	2.96	67	8.44	2.91	61	8.15	2.85	66	9.59
		Chema-1	7.98	2.82	65	8.56	2.93	66	8.64	2.94	66	8.12	2.85	65	9.58
		UC-2549	7.81	2.79	59	7.74	2.78	45	8.49	2.91	62	8.03	2.83	64	9.47
		Highline (UC-2828)	7.67	2.77	52	8.44	2.91	65	7.86	2.80	44	8.00	2.83	62	9.44
9	8.9	<b>CUF101</b>	7.99	2.83	66	8.09	2.84	61	7.97	2.82	48	7.99	2.83	61	9.44
		UC-2694	6.85	2.62	21	8.22	2.87	64	8.88	2.98	67	8.00	2.82	60	9.42
		UC-2840	7.80	2.79	58	7.72	2.78	42	8.37	2.89	57	7.96	2.82	59	9.40
		UC-2703	7.64	2.76	51	7.80	2.79	51	8.59	2.93	64	7.92	2.81	57	9.36
		UC-2677	7.60	2.76	49	7.72	2.78	43	8.39	2.90	59	7.88	2.80	56	9.31
		UC-2589	7.70	2.77	53	8.16	2.86	63	7.72	2.78	42	7.85	2.80	54	9.29
		UC-2605	7.29	2.70	32	7.83	2.80	54	8.38	2.89	58	7.82	2.79	53	9.25
		UC-2701	7.72	2.78	54	7.54	2.75	33	8.20	2.86	55	7.79	2.79	51	9.22
		Saltine+	7.75	2.78	56	8.02	2.83	58	8.16	2.86	53	7.74	2.78	49	9.18
		UC-2705	6.97	2.64	24	8.03	2.83	59	8.06	2.84	51	7.69	2.77	47	9.11
		CUF-101 (Foundation 2007)	7.74	2.78	55	7.82	2.80	53	7.39	2.72	37	7.65	2.77	46	9.08
		Impalo (UC-2829)	7.47	2.73	41	7.78	2.79	48	7.87	2.81	45	7.64	2.76	45	9.07
		UC-2693	7.46	2.73	40	7.76	2.79	47	7.83	2.80	43	7.65	2.76	44	9.07
		UC-2607	7.49	2.74	42	7.42	2.72	26	7.97	2.82	49	7.64	2.76	43	9.06
		UC-2681	7.51	2.74	43	7.76	2.79	46	7.35	2.71	36	7.58	2.75	41	9.00
		Cibola (UC-2826)	7.90	2.81	62	7.56	2.75	34	7.28	2.70	35	7.56	2.75	40	8.98
		CUF 101 (Foundation 2006)	7.91	2.81	63	7.54	2.75	32	7.23	2.69	33	7.56	2.75	39	8.97
		DS057053	7.55	2.75	47	6.93	2.63	20	6.41	2.53	26	7.47	2.73	38	8.89
		UC-2609	7.14	2.67	28	7.74	2.78	44	7.57	2.75	40	7.45	2.73	37	8.86
		TS-0008	7.60	2.76	50	7.93	2.82	56	7.96	2.82	47	7.43	2.73	36	8.84
		UC-2671	7.32	2.71	33	7.17	2.68	23	7.48	2.73	39	7.33	2.71	34	8.73
		UC 451 (Moapa 69)	8.01	2.83	67	7.59	2.76	36	6.22	2.49	21	7.29	2.69	32	8.65
		UC-2839	7.19	2.68	29	7.49	2.74	29	7.05	2.66	31	7.24	2.69	31	8.62
		UC 453 (Moapa 69)	7.54	2.75	44	7.80	2.79	50	6.35	2.52	25	7.23	2.68	30	8.60
8	7.8	<b>Pierce</b>	7.36	2.71	35	7.46	2.73	27	6.90	2.63	28	7.18	2.68	29	8.56
		Cibola (Foundation/Rubin Sd)	7.28	2.70	31	7.25	2.69	24	6.92	2.63	30	6.96	2.67	28	8.53
		Cibola (K-F Seeds)	7.06	2.66	25	7.63	2.76	37	6.72	2.59	27	7.14	2.67	27	8.51
		TS-0002	7.14	2.67	27	7.48	2.73	28	7.22	2.69	32	7.08	2.66	26	8.46
		UC 452 (Moapa 69)	7.39	2.72	37	7.59	2.75	35	6.23	2.50	22	7.06	2.65	25	8.41
		DS995	7.36	2.71	36	7.69	2.77	40	6.10	2.47	16	7.00	2.65	24	8.37
		UC-2849	6.90	2.63	23	7.53	2.74	31	8.18	2.86	54	6.79	2.60	23	8.13
		DS077666	7.14	2.67	26	7.86	2.80	55	7.43	2.73	38	6.70	2.59	22	8.03
		UC-2832	6.36	2.52	20	6.58	2.56	16	6.30	2.51	23	6.40	2.53	21	7.67
		DS420317	6.34	2.52	19	7.11	2.67	22	6.05	2.46	15	6.31	2.51	20	7.57
		DS288	6.85	2.62	22	6.23	2.50	15	6.18	2.49	19	6.26	2.50	19	7.52
7	6.7	<b>Dona Ana</b>	5.56	2.36	16	6.60	2.57	18	6.17	2.48	18	6.12	2.47	18	7.33
		DS20598	6.15	2.48	18	6.96	2.64	21	6.33	2.52	24	5.90	2.43	17	7.09
		DS961	6.01	2.45	17	6.59	2.57	17	6.12	2.47	17	5.90	2.43	16	7.09
6	6.3	<b>ABI 700</b>	4.93	2.22	14	5.95	2.44	14	5.71	2.39	14	5.44	2.32	15	6.46
		DS571	5.43	2.33	15	6.89	2.63	19	6.19	2.49	20	5.10	2.26	14	6.07
5	5.3	<b>Archer</b>	3.55	1.88	11	5.43	2.33	13	4.20	2.05	11	4.38	2.08	13	5.05
		C-Durang 07	3.86	1.96	13	5.05	2.25	10	4.21	2.05	12	3.82	1.96	12	4.28
		Bob 07	3.77	1.94	12	5.22	2.29	11	5.10	2.26	13	3.47	1.86	11	3.74
		NY0231 (NY08-9)	3.27	1.81	9	4.50	2.12	6	3.84	1.96	9	3.30	1.82	10	3.46
4	3.8	<b>Legend</b>	3.07	1.75	7	4.09	2.02	4	2.58	1.61	3	3.65	1.79	9	3.32
3	3.4	<b>5246</b>	2.67	1.63	3	3.88	1.97	3	3.14	1.77	8	3.24	1.79	8	3.30
		C-Dak 07	3.32	1.82	10	5.35	2.31	12	4.17	2.04	10	3.10	1.76	7	3.13
		NY0240 (NY08-10)	2.97	1.72	6	4.70	2.17	7	2.93	1.71	5	2.92	1.71	6	2.82
		C-Key 07	3.14	1.77	8	4.24	2.06	5	3.09	1.76	7	2.84	1.69	5	2.68
		C-Cim 07	2.69	1.64	4	4.79	2.19	9	2.73	1.65	4	2.67	1.63	4	2.37
2	2.0	<b>Vernal</b>	2.61	1.62	2	3.22	1.79	2	2.24	1.50	2	2.66	1.62	3	2.30
		C-Dua 07	2.71	1.65	5	4.78	2.19	8	3.02	1.74	6	2.25	1.50	2	1.57
1	0.8	<b>Maverick</b>	1.71	1.31	1	2.18	1.48	1	1.78	1.33	1	1.82	1.34	1	0.64

LSD<sub>0.05</sub><sup>6</sup>

0.13

0.15

0.20

CV(%)

3.65

4.10

5.52

<sup>1</sup>=Number corresponds to Fall Dormancy Class of 11 check cultivars (in Bold Print) used by the Certified Alfalfa Seed Council.<sup>2</sup>=Actual 4-year Fall Dormancy Rating of check cultivars using the Univ. of California regression equation (NAAIC, August 1998).<sup>3</sup>=Location: Planted-cut-scored: Tulelake:5/1 - 9/5 - 9/30; Davis: 6/12 - 10/3 - 10/28; Imperial: 4/9 - 10/17 - 11/19/2008.<sup>4</sup>= Plant Height Score is transformed in to Natural Plant Height (NPH) using square root to remove heterogeneity of variance.<sup>5</sup>=Suggested single year fall dormancy rating based on three location single year regression (FDR=5.9269/(NPH)-7.3096).<sup>6</sup>=Fishers protected Least Significant Difference for comparison of NPH means within locations.

**SUGGESTED FALL DORMANCY RANGE AND MINIMUM ALFALFA CULTIVAR PEST RESISTANCE RATINGS FOR SIX CALIFORNIA CLIMATE ZONES.** Growers selecting varieties from different regions should emphasize the pests that are most important for their area.

Production Zone	Rating Factor										
	FD	SAA	PA	BAA	PRR	BW	FW	An	Stn	RKN	VW
Intermountain	2--4	S	R	MR	R	R	HR	R	R	R	R
Sacramento Valley	4--8	MR	HR	HR	HR	MR	HR	R	R	R	R
San Joaquin Valley	7--9	R	HR	HR	HR	MR	HR	R	HR	HR	R
Coastal	5--7	MR	HR	HR	HR	MR	HR	R	HR	HR	R
High Desert	4--7	R	R	R	R	MR	HR	MR	HR	HR	R
Low Desert	8--9	HR	HR	HR	HR	S	HR	HR	R	HR	S

NOTE: These pest resistance recommendations were originally developed by Dr. Vern Marble, Extension Agronomist, UC Davis, based upon decades of experience with alfalfa varieties in various locations in California. Zones correspond to the principle regions of alfalfa production in California.

**EXPLANATION OF PEST RESISTANCE.** Alfalfa varieties consist of a population of plants which have varying degrees of resistance to an insect or disease. Since alfalfa fields can sustain considerable loss of individual plants without reducing productivity, alfalfa varieties with 51% or over are considered to be highly resistant, since resistant plants will make up for losses from other plants.

Resistance Level	Abbreviation	Percent resistance <sup>1</sup>
Highly Resistant	HR	>51%
Resistant	R	31-50%
Moderately Resistant	MR	15-30%
Low Resistance	LOW	6-14%
Susceptible	S	<5%
Tolerant	T	(see definition)

<sup>1</sup> Percent of plants in a population resistant to a given pest

**Definitions**

**I - Immune** -- Not subject to attack for a specified pest. Immunity is absolute, and seldom occurs in alfalfa.

**R - Resistant** -- The ability of plants to withstand pest attack. Resistance is not absolute but varies by degree. Even highly resistant varieties will have some plants that are susceptible (see above percentages). NOTE: Very high insect populations or very severe disease conditions can overwhelm pest resistance in alfalfa.

**S - Susceptible** -- Damage commonly occurs when in the presence of a specified pest. Inability of a variety to withstand adverse disease or insect conditions.

**T - Tolerant** -- Ability of plants to sustain yields when confronted with a pest attack or environmental condition (e.g. salt or grazing). Tolerant varieties are affected by the condition, but still maintain yields at high levels relative to less tolerant varieties.

**LISTING OF COMPANY CONTACTS FOR FURTHER INFORMATION ON VARIETIES.**

<b>Company</b>	<b>Name</b>	<b>Address</b>	<b>City &amp; State</b>	<b>Zip</b>	<b>Phone</b>	<b>FAX</b>	<b>Email</b>
Advanced Forages	Mark Brady	P.O. Box 883	Visalia, CA	93274	559-779-2676	559-688-1674	<a href="mailto:ADForages@aol.com">ADForages@aol.com</a>
Agriliance LLC.	Joe Bush	510 E Monte Christo Rd.	Edinburg, TX	78540	956-380-0710		<a href="mailto:JHBush@agriliance.com">JHBush@agriliance.com</a>
Allied Seed	Ron Schmidt	1917 E. Fargo Ave.	Nampa, ID	83687	208-466-9218	208-467-9953	<a href="mailto:rschmidt@allied.com">rschmidt@allied.com</a>
America's Alfalfa	Joe Machado	1041 Jackson Ave.	Los Banos, CA	93635	209-826-9442	209-826-8842	<a href="mailto:machado@americasalfalfa.com">machado@americasalfalfa.com</a>
Cal/West Seeds	Jon Reich	P.O. Box 1428	Woodland, CA	95776	530-666-3331	530-666-1464	<a href="mailto:j.reich@Calwestseeds.com">j.reich@Calwestseeds.com</a>
Croplan Genetics	Dennis Gehler	P. O. Box 64406	St. Paul, MN	55164	651-765-5710	651-765-5727	<a href="mailto:djgehler@landolakes.com">djgehler@landolakes.com</a>
Dairyland Seed Co.	Dan Gardner	13147 Jackson Hwy.	Sloughhouse, CA	95683	916-682-3215	916-682-8435	<a href="mailto:dgardner@dairylandseed.com">dgardner@dairylandseed.com</a>
Desert Sun Marketing Co.	Mike Malin	P. O. Box 50817	Phoenix, AZ	85076	480-940-4431	480-940-4507	<a href="mailto:mike@desertsunmarketing.com">mike@desertsunmarketing.com</a>
Eureka/SeedTec	Craig Sharp	P.O. Box 1866	Woodland, CA	95776	530-661-6995	530-661-1575	<a href="mailto:eurekaseed@aol.com">eurekaseed@aol.com</a>
Farm Valley Seeds	Mike Reed/James Scallin	624 E Service Rd	Modesto, CA	95358	209-541-3144	209-541-3191	<a href="mailto:jscallin@aol.com">jscallin@aol.com</a>
Forage Genetics Intrnl.	Peter Reisen	P.O. Box 339	Nampa, ID	83653	208-466-3568	208-466-3684	<a href="mailto:bknipe@forage-genetics.com">bknipe@forage-genetics.com</a>
Germain's Seeds	Doug Elkins	4782 E. Jensen Ave.	Fresno, CA	93777	559-233-8823	559-233-8830	<a href="mailto:delkins@seedsolutions.com">delkins@seedsolutions.com</a>
Gowan Seeds	Cory Ritz	903 West 500th South	Farmington, UT	84025	801-971-5359	801-451-9699	<a href="mailto:critz@forage-genetics.com">critz@forage-genetics.com</a>
Great Plains Research	Thad Busbice	3624 Kildaire Farm Rd	Apex, NC.	27502	1-800-874-7945	919-387-7918	<a href="mailto:alfalfa@greatplainsresearch.com">alfalfa@greatplainsresearch.com</a>
Kamprath Seed Co.	Alan Steigerwald	205 Stockton St.	Manteca, CA	95337	209-823-6242	209-823-2582	<a href="mailto:alan@kamprathseed.com">alan@kamprathseed.com</a>
Lockhart Seeds, Inc.	Ian Lockhart	3 N. Wilson Way	Stockton, CA	95201	209-466-4401	209-466-9766	<a href="mailto:lockhartstd@aol.com">lockhartstd@aol.com</a>
Monsanto Golbal Seed Group	Bill Cox	810 W. Main Suite C	Visalia, CA	93291	559-627-0666	559-627-0742	<a href="mailto:bill.cox@monsanto.com">bill.cox@monsanto.com</a>
Monsanto Golbal Seed Group	Barbara Kutzner	1428 N. Locan Ave	Fresno, CA	93727	559-453-0740	559-453-0771	<a href="mailto:barbara.u.kutzner@monsanto.com">barbara.u.kutzner@monsanto.com</a>
Novartis Seeds Inc.	Terry Hobson	11939A Sugarmill Rd.	Longmont,CO	80501	800-521-7021	303-682-2482	<a href="mailto:terry.hobson@seeds.novartis.com">terry.hobson@seeds.novartis.com</a>
PGI / MBS, Inc.	Dean Teslow	409 North St.	Decorah, IA	52101	866-744-5710	563-382-2433	<a href="mailto:dean.teslow@seminis.com">dean.teslow@seminis.com</a>
Pioneer Hi-Bred	Mark Smith	1040 Settler Rd.	Connell, WA	99326	509-234-9046	509-234-3610	<a href="mailto:mark.a.smith@pioneer.com">mark.a.smith@pioneer.com</a>
Pioneer Hi-Bred	Roger Vinande	3605 Beyer Park Rd.	Modesto, CA	95355	209-578-3314	209-527-3336	<a href="mailto:Roger.Vinande@pioneer.com">Roger.Vinande@pioneer.com</a>
Producer's Choice/PGI	Marty Crum	P.O. Box 1069	Woodland, CA	95776	800-523-7115	559-798-6533	<a href="mailto:m.crum@producerschoiceseed.com">m.crum@producerschoiceseed.com</a>
Royal Seeds	Ken May	27630 Llewellyn Rd.	Corvallis,OR	97333	1-800-228-4119	1-541-758-5305	<a href="mailto:kmay@forage-genetics.com">kmay@forage-genetics.com</a>
S & W Seeds	Bob Sheesley	P.O. Box 235	Five Points, CA	93624	559-291-6195	559-291-2605	<a href="mailto:swseedco@pacbell.net">swseedco@pacbell.net</a>
Simplot Seeds	Mike Benson	19766 So. Hiway 99	Tulare, CA	93274	559-687-2767		<a href="mailto:Mbenson@Simplot.com">Mbenson@Simplot.com</a>
Simplot Seeds	Lorell Skogsberg	418 S. 9th St Suite 308	Boise, ID	83702	208-672-2813		<a href="mailto:Lorell.Skogsberg@simplot.com">Lorell.Skogsberg@simplot.com</a>
Syngenta Seeds	Terry Hobson	1525 Airport Rd.	Ames, IA	50010	800-258-0498	515-239-3536	<a href="mailto:terry.hobson@syngenta.com">terry.hobson@syngenta.com</a>
Syngenta Seeds	Joe Waldo	7500 Olson Memorial Hwy	Golden Valley, MN	55427	763-59-7324	763-593-7203	<a href="mailto:joe.waldo@syngenta.com">joe.waldo@syngenta.com</a>
Target Seed, LLC	Don Miller	P.O. Box 300	Parma, ID	83660	208-250-0376		<a href="mailto:donm@targetseed.com">donm@targetseed.com</a>
Union Seed	Jess W. Bice	P.O. Box 339	Nampa, ID	83653	800-635-5701	208-466-3684	<a href="mailto:jbice@forage-genetics.com">jbice@forage-genetics.com</a>
WL Research	Mike Peterson	P. O. Box 8112	Madison, WI	53708	800-406-7662	608-240-0411	<a href="mailto:mpeterson@wlresearch.com">mpeterson@wlresearch.com</a>
Western Farm Service	Steve Ford	P.O. Box 1168	Fresno, CA	93715	559-436-2941	559-436-2949	<a href="mailto:sford@agriumretail.com">sford@agriumretail.com</a>
Wilbur Ellis Company	Derek Winn	P. O. Box 15289	Sacramento, CA	95851	916-991-9833	916-9911837	<a href="mailto:dwinn@wilbur-ellis.com">dwinn@wilbur-ellis.com</a>
UAP/United Agri Products	Walter Bryant	4914 HWY 20/26	Caldwell, ID	83605	208-454-0475		<a href="mailto:walter.bryant@uap.com">walter.bryant@uap.com</a>