

TABLE OF CONTENTS

2007 Performance Tests

Objectives and Procedures		1
Variety Characterization		1
Southeast, Mound Valley, Labette County, Seeded 2005	Table 1	2
North Central, Belleville, Republic County, Seeded 2004	Table 2	3
South Central, Hutchinson, Reno County, Seeded 2004	Table 3	4
Northwest Irrigated, Colby, Thomas County, Seeded 2006	Table 4	5
Southwest Irrigated, Garden City, Finney County, Seeded 2006	Table 5	6
2007 Entries With Disease and Insect Resistance Ratings for Rele	eased Varieties Table 6	7
Electronic Access and University Research Policy	back cove	r

Entrants in 2007 Kansas Alfalfa Performance Tests.

AgriPro Seed (AgriPro) Slater, IA 877-247-4776 agripro.com

(Johnston) Enid, OK 580-233-5800 W-L Research, Inc. (W-L)Madison, WI 608-295-3566

Allied Seed (KS AES & USDA) (Allied) Manhattan, KS 785-532-6115 Macon, MO 660-385-6690 Monsanto Seed alliedseed.com

CroPlan Genetics (CroPlan Genetics) St. Paul, MN 800-851-8810

Dairyland Seed Co. (Dairyland) West Bend, WI 800-236-0163 dairylandseed.com

Foundation Seed Division (NE AES & USDA) Lincoln, NE

877-229-1363 Garst Seed Co.

(Garst) Greensburg, KS 620-546-5955

garstseed.com

Great Plains Research Co. (Cimarron USA)

Apex, NC 800-874-7945 CimarronUSA.com KSU - Foundation Seed

Johnston Seed Co

(Monsanto) St. Louis, MO 800-335-2676

Mycogen Seeds (Mycogen) Indianapolis, IN 317-337-7568

NC+ Hybrids (NC+)Lincoln, NE 800-365-9804 www.nc-plus.com

PGI Alfalfa, Inc. (PGI) Woodland, CA 866-744-5710

Pioneer Hi-Bred, Intl., Inc.

(Pioneer Brand) Johnston, IA 800-247-6803

Syngenta Seeds, Inc. (NK)

Golden Valley, MN 763-593-7324 nk-us.com

2007 PERFORMANCE TESTS

Objectives and Procedures

The Kansas Agricultural Experiment Station established an official alfalfa testing program in 1980 to provide Kansas growers with unbiased performance comparisons of alfalfa varieties marketed in the state. Each year, private companies are asked to enter varieties voluntarily at the locations slated for establishment that year. Announcements and entry forms are mailed to private companies in June for entry in fall-seeded tests. Companies enter varieties of their choice and pay entry fees to cover part of the costs of conducting Most tests are planted in mid-August or the tests. September, but the Southeast Kansas test usually is planted in the spring. Individual tests are conducted for a minimum of three years. New tests typically are established during the final production year of the previous test, or more frequently if there is enough interest.

Descriptive information is presented with the results for each test. This information, including soil type, establishment methods, fertilization, pest control, irrigation, harvest dates, and growing conditions unique to that location, can help explain test and/or variety performance.

Forage yields were estimated by harvesting four replications of each variety with a plot harvester. The amount of forage produced from a specific area (35 to 80 ft²) was weighed, and a subsample was taken to determine moisture content. This information was used to convert the plot weights to tons of dry matter per acre for each cutting, the season total, and the total for each previous season, as presented in Tables 1 through 5. The forage yield over the lifetime of a particular test is presented as the total tons of dry matter produced per acre, as the total tons of 15% moisture hay, and as a percentage of the test average.

Each table is separated into three sections. The first lists released cultivars that are generally available on the seed market or soon will be. The second section includes experimental cultivars that were entered in the test before being released for sale. These experimental lines often represent an earlier generation of seed than that used for the released cultivars. The third section includes summary statistics unique to that test.

At the bottom of each column, the Least Significant Difference (LSD) is listed at the 0.05 and 0.20 levels. These values indicate how large a difference is needed to be confident that one variety is superior to another. Differences between varieties that are equal to or greater than the 0.05 LSD have only a 1 in 20 chance of being due to chance or error. Differences equal to or greater than the 0.20 LSD have a 1 in 5 chance of being caused by chance or error.

The Coefficient of Variability (CV) provides an estimate of the consistency of the results of a particular test. In these tests, CVs less than 10% generally indicate reliable, uniform data, whereas CVs of 10 to 15% are not uncommon and generally indicate that the data are acceptable for rough comparisons. Tests with CVs greater than 15% still may be useful, but variety comparisons lack precision.

The Mean Coefficient of Variability (MCV) is similar to the CV in that it serves as an indicator of test precision. The MCV is calculated by dividing the 0.05 LSD by the test mean (average) and multiplying by 100. The MCV reveals the percentage difference required to detect differences between varieties with 95% confidence. Many alfalfa breeders and testers agree that tests with MCV values greater than 10% are of little benefit.

Variety Characterization

For variety selection, producers should consider the performance of a variety in each of the current tests in which it appears, its performance over time and locations relative to familiar or check varieties, and the disease and insect resistance characteristics that are potentially important in specific situations.

Tables 1 through 5 contain updated yield data from individual tests currently in progress. First-season yields for a spring-planted test often are more variable than yields in subsequent years. Season totals are important, but yield distribution during the season might differ among varieties. Examine yields from individual cuttings to determine if differences in yield distribution exist. Yield totals over many years provide the best measure of variety performance over time.

Table 6 provides winter survival, disease and insectresistance, multi-foliolate expression, and continuous
grazing tolerance ratings for released varieties. These ratings
were obtained primarily from the annual "Winter Survival,
Fall Dormancy & Pest Resistance Ratings for Alfalfa
Varieties" pamphlet published by the National Alfalfa
Alliance (NAAIC). That report summarizes information
submitted by developers of alfalfa varieties as part of the
variety registration process. The Association of Official
Seed Certifying Agencies (AOSCA) National Alfalfa
Variety Review Board (NAVRB) reviewed the ratings
before they were published. Companies submitting varieties
for the tests provided ratings for some unregistered varieties.
Experimental varieties are also listed in Table 6 for brand
identification.

Table 1. Southeast Kansas, Mound Valley Alfalfa Performance Test, Seeded April 14, 2005.

Joe Moyer, agronomist

Southeast Ag. Research Center, Mound Valley, Parsons silty clay loam 15 lb. seed/acre

The extremely wet spring conditions reduced stands of some plots in the fourth rep by early

Plots 5'x20'; 3'x20' harvested 20-50-200 lb/a of N-P-K in March

The extremely wet spring conditions reduced stands of some plots in the fourth rep by early June, so it was abandoned. By the end of August, growth had slowed because moisture was limited.

	Forage Yield													
		Total,	Total,											
			2007			ì					15%	% of		
NAME	4-12	6-6	7-16	8-27	11-1		2007	2006	2005	Total	Moist.	Mean		
RELEASED CULTIVARS														
FSG505	1.19	1.64	1.40	0.61	0.82		5.67	2.13	4.51	12.31	14.48	107		
FSG408DP	1.12	1.67	1.28	0.68	0.82		5.58	1.87	4.27	11.73	13.80	102		
6530	1.12	1.76	1.44	0.60	0.76		5.68	1.88	4.14	11.69	13.76	102		
Cimarron VL400	1.21	1.62	1.36	0.59	0.83		5.61	1.83	4.19	11.62	13.67	101		
Good as Gold II	1.14	1.54	1.02	0.55	0.75		5.00	2.08	4.46	11.54	13.57	100		
WL 357 HQ	1.14	1.49	1.16	0.60	0.85		5.24	1.89	4.28	11.41	13.43	99		
Kanza	1.06	1.44	1.20	0.60	0.74		5.04	1.89	4.46	11.39	13.40	99		
6420	1.17	1.70	1.03	0.53	0.78		5.22	1.95	4.09	11.26	13.25	98		
Perry	1.14	1.55	1.03	0.54	0.75		5.02	1.95	4.13	11.10	13.06	97		
Integrity	1.09	1.63	1.23	0.60	0.73		5.28	1.82	3.89	10.99	12.93	96		
EXPERIMENTAL STRAINS														
AA112E	1.12	1.63	1.47	0.73	0.76		5.71	1.95	4.21	11.87	13.97	103		
CW 15030	1.13	1.67	1.21	0.50	0.67		5.18	2.00	4.14	11.31	13.31	98		
AA108E	1.15	1.65	1.47	0.53	0.68		5.48	1.73	3.88	11.10	13.06	97		
SUMMARY STATISTICS														
Average	1.14	1.61	1.25	0.59	0.77		5.36	1.92	4.20	11.49	13.51	100		
LSD (0.05)	0.09	0.33	0.32	0.15	0.22		0.47	0.20	0.33	0.61	0.72	5		
LSD (0.20)	0.06	0.21	0.20	0.10	0.14		0.30	0.13	0.21	0.39	0.46	3		
CV (%)	4.25	10.71	13.29	13.71	14.68		5.96	7.11	5.53	3.64	3.64	4		
MCV (%)	7.16	18.04	22.39	23.11	24.73		8.70	10.20	7.93	5.31	5.31	5		

Table 2. North Central Kansas, Belleville Alfalfa Performance Test, Seeded September 1, 2004.

Barney Gordon, agronomist

North Central Kansas Exp. Field, Belleville, Crete silt loam

20 lb. seed/acre

Plots 5'x15'; 3'x15' harvested 11-52-0 lb/a of N-P-K in February

First cutting was lost due to the freeze on April 6, 7, and 8. Regrowth was very slow after the freeze.

	Forage Yield													
				tons/acre										
				Dry Matter				Total,	Total,					
			2007					15%	% of					
NAME	6-11	7-13	8-14	2007	2006	2005	Total	Moist.	Mean					
RELEASED CULTIVARS														
Good as Gold II	2.67	1.81	1.50	5.99	4.92	6.83	17.74	20.87	108					
DKA42-15	2.59	1.64	1.29	5.52	4.73	6.73	16.97	19.97	103					
Reward II	2.73	1.62	1.26	5.61	4.71	6.66	16.97	19.96	103					
WL 335 HQ	2.59	1.60	1.22	5.42	4.70	6.67	16.79	19.75	102					
6415	2.42	1.59	1.28	5.29	4.54	6.75	16.57	19.50	101					
HybriForce-420/wet	2.58	1.66	1.19	5.44	4.41	6.67	16.52	19.43	101					
Pioneer 54V46	2.48	1.61	1.20	5.29	4.51	6.68	16.48	19.39	100					
6400HT	2.61	1.65	1.19	5.46	4.31	6.65	16.42	19.32	100					
Genoa	2.44	1.69	1.21	5.34	4.53	6.46	16.33	19.21	99					
Kanza	2.32	1.64	1.38	5.34	4.52	6.24	16.10	18.94	98					
DKA50-18	2.50	1.65	1.28	5.43	4.37	6.22	16.02	18.84	98					
WL 357 HQ	2.45	1.64	1.48	5.56	4.11	6.12	15.79	18.58	96					
EXPERIMENTAL STRAINS														
DS361HY	2.40	1.53	1.32	5.24	4.56	6.34	16.14	18.99	98					
DS362HY	2.48	1.43	1.24	5.14	4.50	6.47	16.11	18.95	98					
DS416	2.56	1.47	1.12	5.15	4.23	6.58	15.95	18.76	97					
DS415	2.20	1.42	1.39	5.00	4.26	6.52	15.79	18.57	96					
SUMMARY STATISTICS														
Average	2.50	1.60	1.28	5.39	4.49	6.54	16.42	19.31	100					
LSD (0.05)	0.36	0.29	0.28	0.54	0.31	0.30	0.69	0.82	4					
LSD (0.20)	0.23	0.18	0.18	0.35	0.20	0.19	0.45	0.53	3					
CV (%)	10.21	12.54	15.42	7.06	4.85	3.23	2.96	2.96	3					
MCV (%)	14.55	17.85	21.96	10.06	6.91	4.60	4.22	4.22	4					

Table 3. South Central Kansas, Hutchinson Alfalfa Performance Test, Seeded September 1, 2004.

Bill Heer, agronomist

South Central Kansas Exp. Field, Hutchinson, Ost silt loam

10 lb. seed/acre

Plots 5'x24', 3'x18' harvested

75-40-0 lb/a of N-P-K before planting

First cutting was lost to freeze in April. Regrowth and cuttings were delayed by wet weather in May and June, and yields were further injured by hot, dry weather ending in September.

	Forage Yield												
				tons/acre									
				Dry Matter				Total,	Total,				
NAME	5-31	7-14	2007 8-15	2007	2006	2005	Total	15% Moist.	% of <u>Mean</u>				
RELEASED CULTIVARS													
Good as Gold II	1.66	1.74	0.89	4.29	1.06	4.53	9.88	11.62	108				
WL 335 HQ	1.68	1.90	1.05	4.63	1.06	4.16	9.85	11.59	108				
FSG408DP	1.58	1.84	0.90	4.33	0.98	4.21	9.52	11.20	104				
Perry	1.60	1.92	1.01	4.53	0.91	4.00	9.45	11.11	104				
6400HT	1.58	1.71	0.82	4.11	0.84	4.26	9.20	10.82	101				
DKA50-18	1.45	1.79	0.94	4.18	0.84	3.96	8.98	10.56	98				
Kanza	1.54	1.81	0.86	4.20	0.75	4.00	8.95	10.53	98				
Jade III	1.51	1.80	0.66	3.97	0.78	4.17	8.92	10.50	98				
Genoa	1.60	1.84	0.83	4.27	0.71	3.92	8.90	10.47	98				
6420	1.56	1.73	0.66	3.95	0.86	4.08	8.89	10.45	97				
WL 357 HQ	1.57	1.70	0.87	4.14	0.65	4.06	8.86	10.42	97				
FSG406	1.47	1.76	0.75	3.98	0.80	3.99	8.76	10.31	96				
HybriForce-420/wet	1.29	2.02	0.85	4.15	0.67	3.91	8.73	10.27	96				
FSG505	1.39	1.74	0.81	3.94	0.74	3.80	8.47	9.96	93				
DKA42-15	1.38	1.61	0.68	3.67	0.83	3.87	8.37	9.85	92				
FSG351	1.41	1.73	0.71	3.84	0.68	3.73	8.25	9.71	90				
EXPERIMENTAL STRAINS													
405	1.78	1.97	1.07	4.82	1.05	4.45	10.32	12.14	113				
CW 15030	1.43	1.92	0.80	4.15	0.99	3.98	9.12	10.73	100				
406	1.69	1.84	0.92	4.45	0.84	3.73	9.02	10.61	99				
404	1.70	1.72	0.62	4.05	0.71	4.17	8.93	10.51	98				
407	1.47	1.86	0.66	3.99	0.81	3.82	8.61	10.13	94				
SUMMARY STATISTICS													
Average	1.54	1.81	0.90	4.25	0.84	4.04	9.12	10.73	100				
LSD (0.05)	0.24	0.27	1.06	1.12	0.27	0.37	1.21	1.43	13				
LSD (0.20)	0.15	0.17	0.18	0.73	0.18	0.24	0.79	0.92	9				
CV (%)	10.92	10.46	23.42	18.65	23.25	6.52	9.40	9.40	9				
MCV (%)	15.44	14.79	33.13	26.38	32.89	9.21	13.29	13.29	13				

Table 4. Northwest Kansas, Colby Alfalfa Performance Test, Seeded August 24, 2006.

Pat Evans, agronomist

Northwest Research-Extension Center, Colby, Keith silt loam

18 lb. seed/acre

Plots 3'x20'; 3'x17' harvested

14-46-0 lb/a of N-P-K before planting

Growing conditions were normal with no insect problems.

	Forage Yield													
		tons/acre												
		Dry Matter												
NAME	6-4	7-6	2007 8-6	9-13		Total	15% Moist.	% of <u>Mean</u>						
DELEACED OUR TIVADO							WOIGH.	Wear						
RELEASED CULTIVARS	2.42	2.40	1.60	1 10		0.00	10 50	107						
Hybri+421	3.42	2.48	1.68	1.42		8.99	10.58	107						
Pioneer 54Q25	3.03	2.47	1.76	1.60		8.87	10.44	105						
Kanza	2.85	2.51	1.82	1.45		8.62	10.14	102						
Pioneer 54V09	3.12	2.27	1.76	1.45		8.59	10.11	102						
Mountaineer 2.0	3.10	2.38	1.75	1.34		8.57	10.08	102						
4A421	2.96	2.40	1.80	1.41		8.57	10.08	102						
Rebound 5.0	3.24	2.17	1.66	1.50		8.56	10.07	102						
DKA41-18RR	2.95	2.41	1.63	1.47		8.47	9.96	101						
Pioneer 54V46	3.17	2.26	1.62	1.34		8.38	9.86	100						
WL 343 HQ	2.88	2.14	1.83	1.40		8.25	9.70	98						
Jade III	2.71	2.39	1.71	1.33		8.14	9.57	97						
WL 355 RR	2.82	2.12	1.69	1.51		8.13	9.57	97						
6400HT	3.11	2.14	1.74	1.14		8.13	9.56	97						
4G418RR	2.82	2.15	1.69	1.40		8.07	9.49	96						
Perry	2.47	2.15	1.72	1.51		7.85	9.23	93						
SUMMARY STATISTICS						,								
Average	2.98	2.30	1.72	1.42		8.41	9.90	100						
LSD (0.05)	0.73	0.42	0.30	0.25		0.93	1.10	11						
LSD (0.20)	0.47	0.27	0.19	0.16		0.60	0.71	7						
CV (%)	17.26	12.93	12.28	12.26		7.77	7.77	8						
MCV (%)	24.63	18.44	17.52	17.49		11.08	11.08	11						

Table 5. Southwest Kansas, Garden City Alfalfa Performance Test, Seeded August 30, 2006.

Monty Spangler, agronomist

Southwest Research-Extension Center, Garden City, Keith silt loam 30 lb. seed/acre

Plots 3'x20'; 3'x20' harvested

22-100-0 lb/a of N-P-K after first cutting

Second and third cuttings were delayed by rains. Very hot in July and August with little moisture until early September.

	Forage Yield												
						ons/acre							
			2007		Dry N	latter	_	Total,	Total,				
NAME	5-18	7-2	8-6	9-4	10-16		Total	15% Moist.	% of Mean				
RELEASED CULTIVARS													
Marvel	3.16	3.62	3.17	1.64	1.40		12.99	15.28	105				
6415	3.00	3.82	3.18	1.59	1.39		12.96	15.25	105				
Rebound 5.0	3.08	3.76	3.14	1.53	1.31		12.82	15.08	104				
Pioneer 54V09	2.94	3.77	3.18	1.55	1.29		12.73	14.97	103				
FSG505	3.16	3.61	3.00	1.53	1.37		12.66	14.90	103				
GH 727	2.98	3.68	2.98	1.59	1.40		12.61	14.84	102				
Genoa	3.01	3.66	3.02	1.56	1.37		12.61	14.84	102				
Expedition	3.03	3.67	2.98	1.58	1.35		12.59	14.81	102				
WL 355 RR	2.88	3.55	3.29	1.56	1.32		12.59	14.81	102				
6530	2.84	3.77	3.28	1.47	1.23		12.59	14.81	102				
Mariner III	3.10	3.60	3.12	1.48	1.30		12.59	14.81	102				
FSG406	2.95	3.67	3.18	1.50	1.28		12.57	14.79	102				
WL 357 HQ	2.92	3.56	3.10	1.56	1.40		12.54	14.75	102				
4A421	3.01	3.56	3.08	1.54	1.30		12.48	14.69	101				
6420	3.27	3.42	3.03	1.47	1.30		12.48	14.68	101				
Reward II	3.22	3.71	2.86	1.40	1.28		12.48	14.68	101				
Pioneer 54Q25	3.20	3.43	3.06	1.50	1.29		12.47	14.67	101				
Pioneer 54V46	3.02	3.65	2.95	1.49	1.31		12.42	14.61	101				
Hybri+421	3.06	3.65	2.92	1.49	1.23		12.33	14.51	100				
DKA41-18RR	2.84	3.39	3.27	1.49	1.31		12.30	14.46	100				
Mountaineer 2.0	2.88	3.72	3.01	1.42	1.25		12.27	14.44	100				
4G418RR	2.73	3.54	3.20	1.50	1.31		12.27	14.43	100				
FSG408DP	3.16	3.52	2.83	1.40	1.23		12.14	14.28	99				
Artesian Sunrise	2.74	3.42	3.01	1.51	1.41		12.08	14.21	98				
Cimarron VL400	2.78	3.64	3.06	1.40	1.16		12.03	14.16	98				
Escalade	2.88	3.44	2.81	1.51	1.28		11.92	14.02	97				
Phoenix	2.76	3.39	2.99	1.40	1.23		11.77	13.85	96				
WL 343 HQ	2.72	3.34	2.85	1.51	1.27		11.68	13.74	95				
Perry	2.90	3.33	2.90	1.38	1.13		11.63	13.68	94				
Kanza	2.89	3.10	2.74	1.54	1.30		11.57	13.61	94				
MP04	2.64	3.43	2.78	1.39	1.16		11.39	13.40	92				
EXPERIMENTAL STRAINS													
4S419	3.34	3.57	3.34	1.62	1.42		13.30	15.64	108				
FG 52M146	2.74	3.60	3.35	1.62	1.42		12.72	14.97	103				
msSunstra-614	2.92	3.40	3.11	1.51	1.39		12.32	14.49	100				
msSunstra-613	2.90	3.66	2.98	1.45	1.30		12.28	14.44	100				
I Chg 04	2.80	3.52	3.03	1.44	1.17		11.95	14.06	97				
DS961	2.70	3.10	2.71	1.53	1.44		11.48	13.51	93				
DS253	2.63	3.00	2.92	1.49	1.40		11.43	13.45	93				
SUMMARY STATISTICS		0.00					٠						
Average	2.94	3.53	3.04	1.50	1.31		12.32	14.49	100				
LSD (0.05)	0.28	0.30	0.43	0.10	0.08		0.61	0.72	5				
LSD (0.20)	0.18	0.20	0.28	0.07	0.05		0.40	0.47	3				
CV (%)	6.90	6.08	10.17	4.91	4.49		3.55	3.55	4				
MCV (%)	9.67	8.51	14.25	6.88	6.29		4.98	4.98	5				

Table 6. 2007 Performance Test entries with disease and insect resistance ratings for released varieties.*

						_	_		_			Α												_	_		_			A					
Brand	w	R	v	F	Δ	-	S	Р	В			P H			P	M	G	Brand	w	R	v	F	Δ	P R	-	P	B _A	s		P H				M L (G
Name								A										Name																E	
ABI																		KS AES & USI	DΔ																
AA108E	_	-	-	-	_	-	_	-	_	-	_	-	_	_	_	_	_	Kanza		R	_	_	_	_	R	R	_	_	_	_	_	_	_	_	_
AA112E	_	-	-	-	_	-	_	-	-	-	_	-	-	_	-	_	-	Monsanto																	
Allied																		DKA41-18RR	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	-
CW 15030	_	_	_	_	_	_	_	-	-	-	_	_	-	_	-	_	-	DKA42-15	1	Н	Н	Н	Н	Н	R	Н	_	R	Н	_	-	_	-	Н	_
Escalade	-	Н	R	R	R	Н	MF	R	-	-	R	_	_	_	-	-	-	DKA50-18	2	Н	Н	Н	Н	Н	R	R	_	R	Н	-	-	_	-	Н	-
FSG351	2	Н	R	Н	R	Н	R	Н	R	R	R	-	-	Н	-	-	-	msSUNSTRA/	Dai	ryla	nd														
FSG406	1	Н	Н	Н	Н	Н	-	R	-	R	Н	-	-	R	-	Н	-	404	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FSG408DP	2	Н	R	Н	Н	Н	-	R	-	R	R	-	-	Н	-	-	-	405	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FSG505	2	Н	Н	Н	Н	Н	R	R	-	R	Н	-	-	R	-	-	-	406	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mariner III	2	Н	Н	Н	Н	Н	-	R	-	R	Н	R	-	Н	-	-	-	407	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Marvel	2	Н	Н	Н	Н	Н	R	R	-	-	Н	-	-	-	-	Н	-	Mycogen																	
Phoenix	4	Н	Н	Н	Н	Н	-	Н	-	Н	R	-	-	MR	-	-	-	4A421	-	Н	Н	Н	Н	Н	Н	Н	-	-	Н	-	-	М	-	-	-
Cimarron USA	4																	4G418RR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cimarron	-	R	R	Н	Н	Н	Н	Н	R	R	R	-	S	-	-	-	-	4S419	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VL400																		NC+																	
l Chg 04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Hybri+421	2	Н	R	Н	Н	Н	R	R	-	R	R	-	-	Н	-	-	-
MP04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Jade III	2	Н	R	Н	Н	Н	R	R	R	R	R	-	-	Н	-	-	-
Croplan Gene																		NE AES & USI	DA																
Artesian Sunrise	-	M	R	R	Н	Н	Н	Н	R	R	-	-	-	R	-	Н	-	Perry	-	R	-	-	L	-	M	R	-	-	-	-	-	-	M	-	-
Mountaineer	2	Н	R	Н	Н	Н	R	Н	-	Н	R	-	-	R	-	Н	-	NK Expedition	2	R	ш	ш	ш	ш	Ь			Ь	ш			Ь			
2.0 Rebound 5.0	2	Н	Н	Н	Н	Н	_	R	_	_	Н	_	_	_	_	Н	_	Genoa		Н										-	-	-	-	-	-
Dairyland See																		PGI																	
DS253	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	Integrity																-	Y
DS361HY	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	Reward II	2	Н	R	Н	R	Н	R	R	R	R	R	-	-	Н	-	-	-
DS362HY	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	Pioneer																	
DS415	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	54Q25		Н														-	-
DS416	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	54V09		Н														-	-
DS961	-	_	_	_	_	_	_	-	-	-	_	_	_	_	-	-	-	54V46	-	R	Н	Н	Н	Н	R	R	L	M	Н	R	-	Н	-	-	-
HybriForce- 420/wet	2	Н	R	Н	R	Н	R	R	-	Н	R	-	-	Н	-	-	-	W-L Research WL 335 HQ		Н	Н	Н	Н	Н	R	Н	_	М	Н	_	_	_	_	Н	-
msSunstra-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	WL 343 HQ	1	Н	Н	Н	Н	Н	-	Н	-	R	Н	-	-	-	-	Н	
613																		WL 355 RR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
msSunstra- 614	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	WL 357 HQ	2	Н	Н	Н	Н	Н	-	Н	-	-	Н	-	-	-	-	-	-
Forage Genet	ics																																		
FG 52M146	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																		
Garst																																			
6400HT								Н																											
6415								R																											
6420								R								-	-																		
6530	-	Н	Н	Н	Н	Н	-	Η	-	R	Н	M	-	-	-	-	-																		
Golden Harve																																			
GH 727	1	Н	Н	Н	Н	Н	-	R	-	R	Н	-	-	-	-	Н																			
Johnston																																			
Good as Gold II	-	Н	R	Н	R	Н	-	R	-	M	М	-	-	Н	-	-	-																		
*WS = Winter s BW = Bacteria			l, 1	= s	upe	rior	-			3AA 3N =									G	T =	Со	ntin	uoı	us ç	jraz	ing	tole	erar	ice,	Y/N	١				
VW = Verticilli FW = Fusariu AN = Anthraci	m w	/ilt		1					A	ŀΡΗ	2 =	Apl	har	om	yce	s ro	ot	ot race 1 ot race 2 nematode	<u>C</u>	ode S			sta		cla		ance	e ra		Resi	sta 0-5		lan	<u>ts</u>	
PRR = Phytop	ohth	ora	roc	ot ro													ot i	nematode		L					and	е						4%			
SAA = Spotte PA = Pea aph		talf	a ap	ohic	ť					L = LE							res	sion		M R	Λ	/lod	era		Res	ista	nce	!		1	15-3	30% 50%)		
Disease and i	nse	ct r	esis	star	nce	ratii	ngs	are	fro	m t	he I	Nati	ona	al A	lfali	fa A	lliai	nce, NAAIC		Н				esis equa	tan		o t o .	_				0%			

For those interested in accessing crop performance testing information electronically, visit our World Wide Web site. Most of the information contained in this publication, plus more, is available for viewing or downloading.

The URL is http://kscroptests.agron.ksu.edu

Excerpts from the University Research Policy Agreement with Cooperating Seed Companies

Permission is hereby given to Kansas State University to test varieties and/or hybrids designated on the attached entry forms in the manner indicated in the test announcements. I certify that seed submitted for testing is a true sample of the seed being offered for sale.

I understand that all results from Kansas Crop Performance Tests belong to the University and the public and shall be controlled by the University so as to produce the greatest benefit to the public. Performance data may be used in the following ways: 1) Tables may be reproduced in their entirety provided the source is referenced and data are not manipulated or reinterpreted; 2) Advertising statements by an individual company about the performance of its entries may be made as long as they are accurate statements about the data as published, with no reference to other companies' names or cultivars. In both cases, the following must be included with the reprint or ad citing the appropriate publication number and title: "See the official Kansas State University Agricultural Experiment Station and Cooperative Extension Service Report of Progress 988 '2007 Kansas Performance Tests with Alfalfa Varieties,' or the Kansas Crop Performance Test Web site, http://kscroptests.agron.ksu.edu, for details. Endorsement or recommendation by Kansas State University is not implied."

These materials may be freely reproduced for educational purposes. All other rights reserved. In each case, give credit to the author(s), 2007 Kansas Performance Tests with Alfalfa Varieties, Kansas State University, January 2008.

Contributors

Main Station, Manhattan

Jane Lingenfelser, Assistant Agronomist (Senior Author)
James R. Cochrane, Assistant Scientist

Research Centers

Pat Evans, Colby Joseph Moyer, Mound Valley Monty Spanaler, Garden City

Experiment Fields

Barney Gordon, Belleville William Heer, Hutchinson

NOTE: Trade names are used to identify products. No endorsement is intended, nor is any criticism implied of similar products not named.

This Report of Progress was edited, designed, and printed by the Department of Communications at Kansas State University

Kansas State University Agricultural Experiment Station and Cooperative Extension Service

SRP 988 January 2008