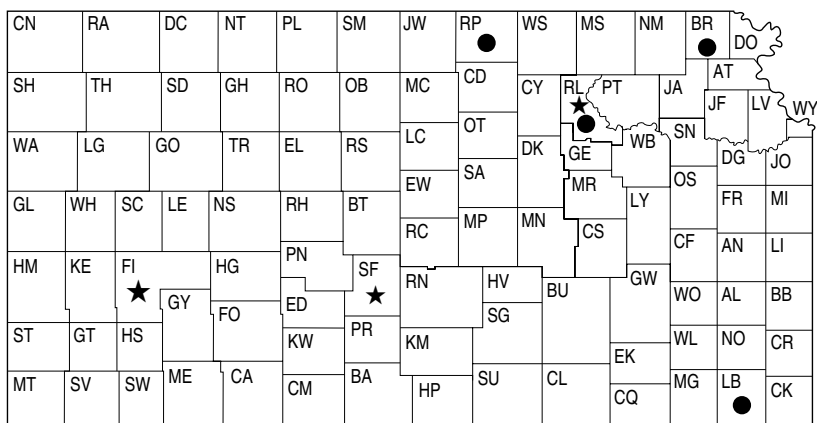




1995
 KANSAS PERFORMANCE TESTS WITH
ALFALFA
VARIETIES



● dryland ★ irrigated

TABLE OF CONTENTS

	Page
INTRODUCTION	
TEST OBJECTIVES AND PROCEDURES	1
1995 STATEWIDE GROWING CONDITIONS	1
VARIETY CHARACTERIZATION	2
RESULTS: ALFALFA PERFORMANCE TESTS	
NORTHEASTERN KANSAS	
Brown County, dryland, Table 1	3
Riley County, dryland, Table 2	4
Riley County, irrigated, Table 3	5
SOUTHEASTERN KANSAS	
Labette County, dryland, Table 4	6
NORTH CENTRAL KANSAS	
Republic County, dryland, Table 5	7
SOUTH CENTRAL KANSAS	
Stafford County, irrigated, Table 6	8
SOUTHWESTERN KANSAS	
Finney County, irrigated, Table 7	9
APPENDIX	
Entrants and entries in 1995 Kansas Alfalfa Performance Tests with unverified fall dormancy and disease resistance ratings	10
University Research Policy with Cooperating Seed Companies	11

1995 KANSAS ALFALFA PERFORMANCE TESTS

INTRODUCTION

TEST OBJECTIVES AND PROCEDURES

An official performance testing program was established in 1980 by the Kansas Agricultural Experiment Station to provide Kansas growers with unbiased performance comparisons on many alfalfa varieties. Private companies enter varieties voluntarily at locations of their choice and pay fees to cover part of the costs of conducting the tests. Most tests are planted in mid-August or September; however, the Labette County test in Southeast Kansas usually is planted in the spring. Individual tests are conducted for a minimum of 3 or 4 years, then new tests are established. Announcements and entry forms are mailed to private companies in June for establishment of fall-seeded tests.

Descriptive information is presented with the results for each test (Tables 1-7). 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 (35-80 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 1-7. The forage yield over the lifetime of a particular test is presented as the total tons of dry matter produced per acre, the total expressed at 15% moisture, and a percentage of the test average.

At the bottom of each column, the Least Significant Difference (LSD) is listed at the 0.05 and 0.20 levels. Differences between varieties that are equal to or greater than the 0.05 LSD have a 1 in 20 chance of not being real. Differences equal to or greater than the 0.20 LSD have a 1 in 5 chance of not being real.

The Coefficient of Variability (C.V.) provides an estimate of the consistency of the results of a particular test. In these tests, C.V.'s below 10% generally indicate reliable, uniform data, whereas C.V.'s of 10-15% are not uncommon and generally indicate that the data are acceptable for rough comparisons. Tests with C.V.'s over 15% may still be useful, but variety comparisons lack precision.

1995 STATEWIDE GROWING CONDITIONS

Timing of the 1995 alfalfa harvest lagged slightly behind the average and much behind that of the 1994 harvest. Cool spring temperatures and prolonged rainfall in April and May delayed the first harvest much beyond the optimum on many acres. Producers normally harvest 90% of the first cutting by mid-May. However, in 1995, only 45% of the first harvest was complete by May 12. During an 8-week period from late April to mid-June, Kansas Agricultural Statistics reported less than 3 days each week as suitable for fieldwork. The season started with adequate soil moisture across the state, but the heavy spring rains caused excess soil moisture in May and early June. Dry conditions beginning as early as July in some areas caused a shortage in soil moisture on over 60% of the acreage in late August and

early September and again from October through mid-December. (From **Crop-Weather** reports, Kansas Agricultural Statistics, Topeka).

Mild winter weather contributed to high populations of some insects early in the season. Pea and blue aphid populations were already high as alfalfa was breaking dormancy. Alfalfa weevil adults suffered low winter mortality and were poised to cause serious damage as the season progressed. Although serious damage was occasionally found, cool, wet spring conditions slowed weevil development enough to allow timely treating of most fields. As a result, the number of fields with the "frosted" appearance caused by heavy weevil damage was lower than usual this year. Potato leaf hoppers became evident as temperatures warmed in late June and caused typical yellowing in many fields through July. Blister beetles were present over a wide area from late June until mid-September. Dry fall weather contributed to a resurgence of spotted alfalfa aphid populations. Webworms reached treatment levels in some fields in south central and southwest Kansas. Late-season caterpillars caused less damage than usual to new seedings. (From **Cooperative Insect Survey Reports**, Kansas State Board of Agriculture).

Spring black stem was noted in late March. It caused minimal defoliation during April, but significant leaf loss in late May and early June. Lepto leaf spot was the other leaf disease noted during the wet spring. Pathologists noted common leaf spot, rust, and summer black stem in several fields in July. (From **Plant Disease Survey Reports**, Kansas State Board of Agriculture).

Over 3.2 million tons of alfalfa hay were harvested from 850,000 acres in Kansas in 1995. Production was up 4% from 1994, when over 3.1 million tons were harvested from 800,000 acres. The average yield decreased from 3.9 tons per acre in 1994 to

3.8 tons per acre in 1995. (From November 9, 1995, **Crops** report; Kansas Agricultural Statistics, Topeka).

Individual test information is presented with the results from each location

VARIETY CHARACTERIZATION

For variety selection, producers should consider the performance of a variety in each of the current tests where 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 their situation. Tables 1 through 7 contain updated yield data from individual tests currently in progress. The appendix contains information for all varieties included in the 1995 Kansas Alfalfa Performance Tests. Fall dormancy, disease resistance, and insect resistance ratings were provided by developers of each variety and were reviewed by the Association of Official Seed Certifying Agencies (AOSCA), National Alfalfa Variety Review Board (NAVRB). The Certified Alfalfa Seed Council uses that information to publish its annual Fall Dormancy & Pest Resistance Ratings for Alfalfa Varieties, which was used as the source of the information in the appendix.

Fall dormancy values are based on the fall canopy height measured in Minnesota. Dormancy values often are related to the speed of regrowth, with the rapid regrowth types having higher values. The slower regrowth types have lower fall dormancy values.

ACKNOWLEDGMENTS

Cooperation of Research Center and Experiment Field personnel who provided land and performed many or all of the field operations is sincerely appreciated.

TABLE 1. 1995 NORTHEAST KANSAS ALFALFA PERFORMANCE TEST RESULTS, BROWN CO.

Entrant, Brand, or Marketer	Entry	Plant Height, inches			1995 Forage Yield				Total, 15% Moist.	Total, % of Mean
					tons/acre					
		6/13	7/26	9/6	Dry Matter			Total		
ICI	645	19	15	14	1.97	1.57	1.14	4.68	5.51	120
Germain's	WL 323	20	17	13	2.08	1.49	1.09	4.66	5.48	119
America's Alfalfa	Innovator+Z	20	18	17	1.33	1.85	1.26	4.44	5.22	114
Star	Asset	24	15	15	1.39	1.71	1.18	4.28	5.04	110
AgriPro	Depend+EV	19	14	14	1.47	1.57	1.15	4.19	4.93	107
Northrup King	Rushmore	21	16	15	1.36	1.66	1.15	4.16	4.89	107
DeKalb	DK 127	24	15	11	1.12	1.70	1.22	4.03	4.74	103
Pioneer	5454	19	17	13	1.40	1.45	1.07	3.93	4.62	101
America's Alfalfa	Total+Z	20	14	13	1.42	1.50	1.00	3.92	4.61	101
DeKalb	DK 133	20	13	15	1.28	1.50	1.12	3.90	4.59	100
NC+	Sierra	19	16	16	1.22	1.53	1.08	3.83	4.51	98
Hoegemeyer	Green Field	23	18	14	1.28	1.33	1.17	3.77	4.44	97
AgriPro	Demand	20	16	15	1.42	1.26	0.99	3.68	4.33	94
Ohlde (M/W Gen)	Magnum IV	20	14	16	1.13	1.43	1.10	3.66	4.31	94
NE AES & USDA	Perry	24	17	15	1.11	1.57	0.96	3.64	4.28	93
Star	A-100	26	15	12	1.13	1.35	1.13	3.61	4.25	93
KS AES & USDA	Riley	20	17	14	1.12	1.32	1.07	3.40	4.00	87
KS AES & USDA	Kanza	20	15	14	1.15	1.12	1.11	3.38	3.98	87
Cargill	Sterling	22	13	13	1.15	0.94	0.82	2.91	3.42	75
Average		21	16	14	1.34	1.47	1.10	3.90	4.59	100
C.V.(%)		5	2	3	22.00	11.60	10.70	9.20	9.20	9
L.S.D.(0.05)		NS	NS	NS	0.42	0.24	0.17	0.51	0.60	13
L.S.D.(0.20)		2	NS	NS	0.27	0.16	0.09	0.33	0.39	8

NS = No significant difference detected.

<p>LOCATION: Northeast Kansas Cornbelt Experiment Field BROWN County Near Powhattan Grundy silty clay loam, pH 6.4 ESTABLISHMENT: Sept. 16, 1994; RCB, 4 reps Plots 5'x20'; 4'x20' harvested 15 lb seed/acre Seed planted as received</p>	<p>1995 FERTILIZATION: None needed 1995 PEST CONTROL: Pursuit and Poast Plus applied on July 31 for weed control</p>	<p>1995 CONDITIONS: The first cutting was delayed by wet weather. All entries were nearly 75% in bloom by the time of the first harvest. Hot, dry conditions in August limited regrowth after the second cutting. The late first harvest combined with poor regrowth after the second harvest prevented a fourth cutting.</p>
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TABLE 2. 1995 NORTHEAST KANSAS ALFALFA PERFORMANCE TEST RESULTS, RILEY CO.

Entrant, Brand, or Marketer	Entry	Plant Height inches	1995 Forage Yield							Total, 15% Moist.	Total, % of Mean
			tons/acre					Total			
			Dry Matter								
10/19	6/7	7/7	8/6	9/11	Total						
Pioneer	90W3PR1 Exp	12	3.84	1.80	1.46	1.02	8.12	9.55	116		
ABI	ABI 9142	10	3.53	1.87	1.32	1.02	7.74	9.11	111		
Germain's	WL 323	12	3.78	1.53	1.30	1.00	7.61	8.95	109		
Cargill	Crown II	11	3.92	1.59	1.21	0.82	7.54	8.87	108		
Star	Asset	11	3.88	1.57	1.22	0.85	7.52	8.85	107		
ICI	630	11	3.53	1.60	1.40	0.94	7.47	8.79	107		
KS AES & USDA	Riley	8	3.87	1.68	1.14	0.73	7.42	8.73	106		
Hobart Seed	SuperCuts	10	3.66	1.57	1.25	0.86	7.34	8.64	105		
Star	A-100	11	3.78	1.54	1.18	0.78	7.28	8.56	104		
NE AES & USDA	Perry	9	3.71	1.64	1.23	0.70	7.28	8.56	104		
DeKalb	DK 133	11	3.30	1.62	1.27	1.07	7.26	8.54	104		
Cal/West	OK49	12	3.46	1.57	1.29	0.94	7.26	8.54	104		
ICI	645	9	3.13	1.63	1.34	1.04	7.14	8.40	102		
Drussel	Reward	10	3.14	1.69	1.28	0.99	7.10	8.35	101		
Ohlde (M/W Gen)	Magnum IV	10	3.06	1.67	1.32	1.00	7.05	8.29	101		
MycoGen	TMF Generation	9	3.17	1.75	1.31	0.81	7.04	8.28	101		
Ciba	Ciba 2444	10	3.24	1.58	1.28	0.90	7.00	8.24	100		
America's Alfalfa	Archer	12	2.94	1.69	1.41	0.93	6.97	8.20	100		
Cal/West	1344 Exp	8	3.42	1.69	1.08	0.77	6.96	8.19	99		
KS AES & USDA	Kanza	11	3.27	1.43	1.30	0.94	6.94	8.16	99		
America's Alfalfa	Aggressor	10	3.41	1.36	1.27	0.87	6.91	8.13	99		
ABI	ABI 9141 Exp	10	3.09	1.67	1.17	0.89	6.82	8.02	97		
America's Alfalfa	Apollo Supreme	10	3.04	1.60	1.26	0.91	6.81	8.01	97		
MBS	PGI3392 Exp	10	3.38	1.28	1.20	0.92	6.78	7.98	97		
MBS	PGI3212 Exp	11	3.01	1.48	1.22	1.06	6.77	7.96	97		
Pioneer	91CO2PR1 Exp	11	3.00	1.70	1.26	0.81	6.77	7.96	97		
Pioneer	91112PJ1 Exp	14	2.72	1.63	1.31	1.02	6.68	7.86	95		
ABI	ABI 923DD Exp	8	2.86	1.48	1.31	0.86	6.51	7.66	93		
Cal/West	1346 Exp	8	2.68	1.59	1.24	0.99	6.50	7.65	93		
Northrup King	Fortress	9	3.02	1.43	1.22	0.78	6.45	7.59	92		
Pioneer	88C2PI2 Exp	15	2.65	1.44	1.33	1.03	6.45	7.59	92		
Cal/West	1469 Exp	10	3.12	1.47	0.94	0.91	6.44	7.58	92		
Pioneer	91CO1PR1 Exp	11	2.87	1.43	1.20	0.80	6.30	7.41	90		
Germain's	WL 322 HQ	10	2.77	1.34	1.33	0.83	6.27	7.38	90		
Average		10	3.26	1.58	1.26	0.90	7.00	8.24	100		
C.V.(%)		9	11.89	8.69	8.46	15.51	7.27	7.27	7		
L.S.D.(0.05)		1	0.46	0.16	0.13	0.16	0.60	0.71	9		
L.S.D.(0.20)		1	0.35	0.13	0.10	0.13	0.46	0.54	7		

<p>LOCATION: Northeast Kansas Agronomy North Farm RILEY County Near Manhattan Smolan silt loam ESTABLISHMENT: March 17, 1994; RCBD, 4 reps Plots 3'x12'; 3'x12' harvested 15 lb seed/acre Seed planted as received</p>	<p>1995 FERTILIZATION: March; 0-80-80 1995 PEST CONTROL: None needed</p>	<p>1995 CONDITIONS: Wet, cool conditions delayed the first harvest well beyond the optimum. Flowering was nearly 50% at the first harvest but only 5-10% at subsequent cuttings. Dry conditions limited late-season yields, but subsoil moisture apparently enabled reasonable growth under the dry conditions.</p>
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TABLE 3. 1995 NORTHEAST KANSAS ALFALFA PERFORMANCE TEST, RILEY CO. - IRRIGATED

Entrant, Brand, or Marketer	Entry	Plant Ht. 7/26	Grass % 8/30	Forage Yield										92-95 Total, 15% Moist.	92-95 Total, % of Mean
				tons/acre											
				Dry Matter						1994 Total	1993 Total	1992 Total	92-95 Total		
				1995 5/15	1995 6/20	1995 7/26	1995 8/30	Total							
America's Alfalfa	Apollo Supreme	26.3	24	1.38	1.82	1.79	1.10	6.09	7.46	6.40	5.49	25.44	29.93	105	
ICI	645	25.5	21	1.71	1.82	1.75	0.98	6.26	6.81	6.07	6.04	25.18	29.62	104	
Germain's	WL 320	21.8	23	1.47	1.81	1.83	1.15	6.26	7.12	6.20	5.58	25.16	29.60	104	
Cargill	Crown II	26.3	34	1.61	1.68	1.49	0.90	5.68	7.54	6.01	5.88	25.11	29.54	104	
Germain's	WL 322 HQ	22.8	21	1.45	1.69	1.61	1.16	5.91	6.87	6.26	5.95	24.99	29.40	104	
Mycogen	Multi-plier	26.0	30	1.41	1.72	1.67	0.94	5.74	7.06	6.10	6.04	24.94	29.34	103	
DeKalb	DK 125	27.0	26	1.47	1.71	1.68	1.02	5.88	7.03	6.12	5.77	24.80	29.18	103	
Cargill	Trident II	26.3	28	1.40	1.56	1.67	0.98	5.61	7.17	6.01	5.84	24.63	28.98	102	
Pioneer	5432	25.0	26	1.58	1.70	1.63	1.11	6.02	7.20	5.93	5.48	24.63	28.98	102	
Golden Harvest	GH-755	25.8	34	1.41	1.53	1.69	1.00	5.63	7.00	6.31	5.46	24.40	28.71	101	
Sharp	Alfaleaf	27.0	33	1.37	1.56	1.63	0.95	5.51	6.92	6.22	5.73	24.38	28.68	101	
Cal/West	OK49	26.8	24	1.42	1.54	1.59	1.08	5.63	7.41	6.32	5.01	24.37	28.67	101	
Pioneer	5364	27.3	24	1.37	1.67	1.75	1.00	5.79	7.16	6.11	5.25	24.31	28.60	101	
ICI	630	24.0	30	1.47	1.59	1.62	1.15	5.83	7.35	5.72	5.33	24.23	28.51	100	
Northrup King	MB5141 Exp	24.5	40	1.28	1.66	1.68	1.04	5.66	6.91	5.81	5.74	24.12	28.38	100	
Germain's	WL 317	23.0	19	1.44	1.57	1.61	1.03	5.65	6.71	6.38	5.31	24.05	28.29	100	
Germain's	Ogallala 633	25.3	28	1.34	1.68	1.55	0.94	5.51	7.19	5.99	5.22	23.91	28.13	99	
NE AES & USDA	Perry	24.8	46	1.45	1.59	1.52	0.80	5.36	6.77	5.73	5.58	23.44	27.58	97	
Star	A-100	26.5	23	1.22	1.52	1.71	1.05	5.50	6.42	5.87	5.39	23.18	27.27	96	
Wilbur-Ellis	Jewel	26.3	36	1.20	1.67	1.60	0.95	5.42	6.44	5.86	5.35	23.07	27.14	96	
KS AES & USDA	Kanza	25.0	25	1.17	1.59	1.70	1.06	5.52	6.72	5.54	4.93	22.71	26.72	94	
KS AES & USDA	Riley	25.0	33	1.16	1.45	1.55	0.96	5.12	6.21	5.64	5.35	22.32	26.26	92	
Average		25.4	29	1.39	1.63	1.64	1.00	5.66	6.96	6.04	5.48	24.14	28.40	100	
C.V.(%)		8.0	31	10.2	6.71	8.29	9.22	4.96	6.22	9.20	10.40	--	--	--	
L.S.D.(0.05)		2.4	11	0.17	0.13	0.16	0.11	0.33	0.51	0.42	0.40	0.93	1.09	4	
L.S.D.(0.20)		1.9	8	0.13	0.10	0.12	0.08	0.26	0.40	0.27	0.26	0.60	0.71	2	

<p>LOCATION: Northeast Kansas Ashland Research Farm RILEY County Near Manhattan Haynie very fine sand</p> <p>ESTABLISHMENT: August 26, 1991; RCBD, 4 reps Plots 5'x14'; 2.5'x14' harvested 18 lb seed/acre Seed planted as received</p>	<p>1995 FERTILIZATION: March; 0-80-80</p> <p>1995 PEST CONTROL: Lorsban to control weevils and aphids on May 24</p> <p>1995 IRRIGATION: Roughly 4-5 inches after each cutting Excess rainfall early in the season eliminated the need for early irrigation.</p>	<p>1995 CONDITIONS: The first cutting was slightly earlier than optimum because of a developing weevil infestation. Adjustments to fourth harvest yields removed the portion contributed by invading grasses. The grass invasion prevented a fifth harvest.</p>
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TABLE 4. 1995 SOUTHEAST KANSAS ALFALFA PERFORMANCE TEST, LABETTE CO.

Entrant, Brand, or Marketer	Entry	Leaf Hopper Rating 7/21	1995 Forage Yield					
			tons/acre				Total, 15% Moist.	Total, % of Mean
			Dry Matter			Total		
6/23	7/21	8/21	Total					
ABI	ABI 9141 Exp	3	1.60	0.88	0.98	3.46	4.07	112
Northrup King	Rushmore	6	1.69	0.81	0.89	3.39	3.99	110
America's Alfalfa	Innovator+Z	4	1.54	0.78	1.06	3.38	3.98	110
Germain's	WL 323	6	1.61	0.82	0.92	3.35	3.94	109
Germain's	WL 252 HQ	6	1.62	0.78	0.93	3.33	3.92	108
America's Alfalfa	Affinity+Z	3	1.54	0.83	0.90	3.27	3.85	106
Forage Genetics	3T26 Exp	5	1.49	0.82	0.86	3.17	3.73	103
Hobart Seed	SuperCuts	3	1.28	0.82	1.01	3.11	3.66	101
DeKalb	DK 133	5	1.36	0.78	0.91	3.06	3.60	99
Mycogen	TMF Generation	5	1.46	0.75	0.86	3.06	3.60	99
America's Alfalfa	Total+Z	3	1.38	0.85	0.83	3.05	3.59	99
Great Plains	Haygrazer	6	1.41	0.71	0.83	2.95	3.47	96
NE AES & USDA	Perry	4	1.36	0.85	0.74	2.95	3.47	96
AgriPro	Depend+EV	4	1.21	0.86	0.84	2.92	3.44	95
DeKalb	DK 127	6	1.36	0.72	0.80	2.88	3.39	94
KS AES & USDA	Kanza	6	1.44	0.71	0.69	2.83	3.33	92
Ohlde (M/W Gen)	Magnum IV	6	1.11	0.85	0.72	2.68	3.15	87
KS AES & USDA	Riley	5	1.10	0.87	0.60	2.57	3.02	83
Average		5	1.42	0.80	0.85	3.08	3.62	100
C.V.(%)		16	14.69	13.42	11.42	8.83	8.83	9
L.S.D.(0.05)		1	0.25	NS	0.12	0.32	0.38	10
L.S.D.(0.20)		1	0.19	NS	0.09	0.25	0.29	8

NS = No significant difference detected.

<p>LOCATION: Southeast Kansas Southeast Ag. Research Center LABETTE County Near Mound Valley Parsons silty clay loam ESTABLISHMENT: April 6, 1995; RCB, 4 reps Plots 5'x30'; 3'x20' harvested 15 lb seed/acre, preplant Eptam Seed planted as received</p>	<p>1995 FERTILIZATION: March; 0-60-200 1995 PEST CONTROL: Poast in July 31 to control grasses</p>	<p>1995 CONDITIONS: All entries were at half bloom at the first cutting and one tenth bloom at the second and third cuttings. Leafhoppers damaged the second cutting (see ratings above; 1 = no damage, 9 = severe yellowing and stunting). Invading foxtail also caused some problems with the second cutting.</p>
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TABLE 5. 1995 NORTH CENTRAL KANSAS ALFALFA PERFORMANCE TEST, REPUBLIC CO.

Entrant, Brand, or Marketer	Entry	Forage Yield								Total, 15% Moist.	93-95 Total, % of Mean	
		tons/acre						1994 Total	1993 Total			93-95 Total
		Dry Matter					Total					
		1995 6/1	1995 7/3	1995 8/7	1995 9/1	1995 Total						
ICI	645	2.53	1.12	0.92	0.86	5.43	9.28	8.35	23.06	27.13	110	
Sharp	Alfaleaf	2.26	0.92	0.83	0.84	4.84	9.04	8.61	22.49	26.46	107	
Johnston	Good as Gold	2.46	1.15	0.85	0.89	5.34	9.12	7.84	22.30	26.24	106	
Cargill	Crown II	2.36	0.99	0.75	0.78	4.89	8.85	8.20	21.94	25.81	105	
Cargill	Trident II	2.32	1.06	0.83	0.79	5.00	8.68	8.25	21.93	25.80	104	
DeKalb	DK 125	2.10	0.91	0.76	0.77	4.54	8.87	8.21	21.62	25.44	103	
Pioneer	5364	2.18	0.98	0.88	0.82	4.86	8.58	8.08	21.52	25.32	103	
Germain's	WL 320	2.26	0.99	0.87	0.80	4.92	8.90	7.66	21.48	25.27	102	
Northrup King	Viking 1	2.35	1.07	0.77	0.79	4.98	8.61	7.71	21.30	25.06	101	
ICI	630	2.26	1.06	0.76	0.81	4.89	8.32	7.92	21.13	24.86	101	
Wilbur-Ellis	Jewel	2.35	0.94	0.86	0.78	4.92	8.35	7.85	21.12	24.85	101	
ABI	Venture	2.29	1.00	0.81	0.73	4.84	8.36	7.91	21.11	24.84	101	
Pioneer	5432	2.29	1.00	0.83	0.75	4.86	8.65	7.51	21.02	24.73	100	
Cal/West	OK49	2.20	0.94	0.81	0.82	4.76	8.67	7.45	20.88	24.56	99	
Germain's	Ogallala 633	2.45	0.92	0.65	0.76	4.78	8.25	7.83	20.86	24.54	99	
Star	A-100	2.32	0.88	0.75	0.76	4.71	8.41	7.70	20.82	24.49	99	
America's Alfalfa	Apollo Supreme	2.18	1.08	0.81	0.80	4.86	8.49	7.12	20.47	24.08	98	
NE AES & USDA	Perry	2.50	0.86	0.74	0.75	4.85	8.12	7.40	20.37	23.96	97	
Northrup King	MultiKing1	2.03	0.92	0.70	0.74	4.39	7.92	7.93	20.24	23.81	96	
Germain's	WL 317	2.12	0.86	0.68	0.73	4.38	7.67	8.07	20.12	23.67	96	
Great Plains	Cimarron VR	2.07	0.83	0.76	0.78	4.44	8.05	7.53	20.02	23.55	95	
Germain's	WL 322 HQ	2.11	0.89	0.69	0.79	4.48	8.02	7.08	19.58	23.04	93	
KS AES & USDA	Riley	1.87	0.72	0.64	0.84	4.07	7.63	7.59	19.29	22.69	92	
KS AES & USDA	Kanza	2.07	0.89	0.77	0.77	4.49	7.65	6.96	19.10	22.47	91	
Average		2.25	0.96	0.78	0.79	4.77	8.44	7.78	20.99	24.69	100	
C.V.(%)		7.58	13.63	12.60	9.18	7.91	7.86	7.20	--	--	--	
L.S.D.(0.05)		0.24	0.18	0.14	NS	0.53	0.78	0.79	1.29	1.51	6	
L.S.D.(0.20)		0.16	0.12	0.09	NS	0.35	0.61	0.51	0.84	0.99	4	

NS = No significant difference detected.

<p>LOCATION: North Central Kansas North Central Kansas Exp. Field REPUBLIC County Near Belleville Crete silt loam ESTABLISHMENT: August 27, 1992; RCBD, 4 reps Plots 5'x30'; 3'x20' harvested 18 lb seed/acre, Balan herbicide Seed planted as received</p>	<p>1995 FERTILIZATION: February; 0-50-0 1995 PEST CONTROL: None needed</p>	<p>1995 CONDITIONS: Cool temperatures in April and May slowed early growth and delayed flowering. High rainfall in May made the field inaccessible, delaying the first harvest even more. Relatively dry conditions for the rest of the growing season resulted in low yields for the second, third, and fourth harvests.</p>
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TABLE 6. 1995 SOUTH CENTRAL KANSAS ALFALFA PERFORMANCE TEST, STAFFORD CO. - IRR.

Entrant, Brand, or Marketer	Entry	Forage Yield										Total, 15% Moist.	92-95 Total, % of Mean
		tons/acre											
		Dry Matter						1994 Total	1993 Total	1992 Total	92-95 Total		
		1995				9/25	Total						
5/19	6/21	7/18	8/18	9/25	Total								
MBS	MBS 2042 Exp	1.61	2.21	1.60	--	1.38	6.81	9.27	7.43	9.75	33.26	39.13	107
Ohlde (M/W Gen)	Magnum III	1.68	2.20	1.60	--	1.39	6.87	9.06	7.86	9.28	33.07	38.91	107
Keltgen	Allegro	1.62	2.14	1.65	--	1.25	6.66	8.56	8.05	9.77	33.04	38.87	107
ICI	630	1.53	2.02	1.57	--	1.35	6.47	8.89	7.96	9.26	32.58	38.33	105
MBS	Crystal	1.41	2.18	1.65	--	1.40	6.63	8.91	7.97	8.83	32.34	38.05	104
ICI	645	1.51	2.05	1.58	--	1.25	6.39	8.73	7.93	9.24	32.29	37.99	104
Germain's	WL 320	1.49	1.83	1.45	--	1.25	6.02	8.96	7.82	9.37	32.17	37.85	104
Pioneer	88W2CR2 Exp	1.47	2.10	1.61	--	1.34	6.52	8.87	7.44	8.98	31.81	37.42	103
Golden Harvest	GH-755	1.49	1.89	1.44	--	1.26	6.08	8.69	7.60	9.34	31.71	37.31	102
Carqill	Crown II	1.57	1.95	1.55	--	1.14	6.21	9.06	7.34	9.06	31.67	37.26	102
Germain's	Oqallala 633	1.55	2.00	1.51	--	1.22	6.28	8.74	7.43	9.22	31.67	37.26	102
Bio-Plant	Vovacer	1.57	1.99	1.34	--	1.22	6.12	8.71	7.51	9.08	31.42	36.96	101
America's Alfalfa	Apollo Supreme	1.45	2.02	1.63	--	1.36	6.46	8.49	7.45	8.92	31.32	36.85	101
Pioneer	87CV842 Exp	1.52	2.00	1.41	--	1.32	6.25	8.50	7.59	8.97	31.31	36.84	101
Carqill	Trident II	1.47	1.99	1.59	--	1.42	6.47	8.43	7.43	8.96	31.29	36.81	101
Mycoqen	Multi-plier	1.50	1.99	1.41	--	1.13	6.02	8.10	7.81	9.35	31.28	36.80	101
AqriPro	Dawn	1.47	2.03	1.57	--	1.21	6.27	8.57	7.43	8.95	31.22	36.73	101
Star	Asset	1.34	1.80	1.47	--	1.29	5.89	8.34	7.36	9.52	31.11	36.60	100
ABI	Venture	1.42	1.95	1.50	--	1.30	6.17	8.30	7.58	8.94	30.99	36.46	100
Wilbur-Ellis	Jewel	1.49	1.95	1.40	--	1.12	5.96	8.42	7.20	9.28	30.86	36.31	100
Union	UN-74	1.44	1.88	1.43	--	1.48	6.23	8.24	7.37	8.93	30.77	36.20	99
Casterline	Empress	1.40	1.86	1.56	--	1.10	5.92	8.38	7.30	9.16	30.76	36.19	99
Casterline	Super 55	1.43	1.92	1.52	--	1.19	6.06	8.29	7.47	8.88	30.70	36.12	99
Sharp	Alfaleaf	1.34	1.91	1.35	--	1.14	5.72	8.06	7.66	9.26	30.70	36.12	99
DeKalb	DK 125	1.39	1.92	1.53	--	1.07	5.90	8.30	7.13	9.28	30.61	36.01	99
Pioneer	5364	1.46	1.88	1.41	--	1.22	5.97	8.60	7.03	8.77	30.37	35.73	98
Northrup King	MultiKing1	1.33	1.80	1.42	--	1.31	5.86	8.15	7.52	8.82	30.35	35.71	98
Northrup King	Fortress	1.35	1.90	1.44	--	1.04	5.73	8.20	7.30	9.09	30.32	35.67	98
Germain's	WL 322 HQ	1.45	1.84	1.51	--	1.29	6.07	8.14	7.19	8.78	30.18	35.51	97
Pioneer	5432	1.55	1.92	1.44	--	1.21	6.12	8.48	6.98	8.51	30.09	35.40	97
Star	A-100	1.35	1.83	1.45	--	1.06	5.69	8.25	7.45	8.60	29.99	35.28	97
Germain's	WL 317	1.36	1.87	1.59	--	1.21	6.03	8.23	6.85	8.87	29.98	35.27	97
Wilbur-Ellis	Mede	1.24	1.72	1.50	--	1.32	5.77	8.20	7.06	8.94	29.97	35.26	97
NE AES & USDA	Perry	1.41	1.86	1.26	--	0.87	5.40	8.16	7.01	8.79	29.36	34.54	95
KS AES & USDA	Kanza	1.34	1.87	1.40	--	1.32	5.93	7.79	7.28	8.30	29.30	34.47	95
Cal/West	OK49	1.41	1.59	1.34	--	1.02	5.36	8.12	6.89	8.19	28.56	33.60	92
KS AES & USDA	Riley	1.30	1.48	1.22	--	1.01	5.01	7.60	6.75	8.69	28.05	33.00	90
Average		1.45	1.93	1.48	--	1.23	6.09	8.45	7.42	9.04	31.00	36.47	100
C.V.(%)		8.36	9.05	8.17	--	12.34	5.24	6.26	12.10	9.20	--	--	--
L.S.D.(0.05)		0.14	0.20	0.14	--	0.18	0.37	0.62	0.54	0.58	1.18	1.39	4
L.S.D.(0.20)		0.11	0.16	0.11	--	0.14	0.29	0.48	0.35	0.38	0.76	0.89	2

Fourth-harvest yields are not reported because of a severe pigweed infestation.

LOCATION: South Central Kansas Sandyland Experiment Field STAFFORD County Near St. John Farnum loamy fine sand ESTABLISHMENT: Sept. 5, 1991; RCBD, 4 reps Plots 5'x20'; 3'x20' harvested 15 lb seed/acre, preplant Roundup Seed planted as received	1995 FERTILIZATION: March; 36-92-22 1995 PEST CONTROL: Velpar on Feb. 22, Lorsban on April 4, Poast on July 26 for crabgrass, Pursuit on August 20 for pigweed 1995 IRRIGATION: 14 inches total in 19 irrigations Beginning in late June and ending in mid-September	1995 CONDITIONS: Late freezes burned back the forage, significantly decreasing first-harvest yields. Cool, wet conditions in May and early June slowed growth and delayed the second harvest. Extremely hot, dry weather after mid-June decreased late-season yields. All cuttings were taken at approximately
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TABLE 7. 1995 SOUTHWEST KANSAS ALFALFA PERFORMANCE TEST, FINNEY CO. - IRR.

Entrant, Brand, or Marketer	Entry	Forage Yield							Total, 15% Moist.	94-95 Total, % of Mean
		tons/acre					1994 Total	94-95 Total		
		Dry Matter			10/4	Total				
		6/13	7/19	1995 8/18						
MBS	PGI4372 Exp	3.15	2.43	1.82	1.41	8.81	9.93	18.74	22.05	106
Drussel	Reward	3.22	2.30	1.73	1.28	8.53	10.02	18.55	21.82	105
Mycogen	TMF Generation	3.53	2.40	1.52	1.19	8.64	9.78	18.42	21.67	104
ABI	ABI 9045 Exp	3.33	2.46	1.68	1.19	8.66	9.72	18.38	21.62	104
MBS	PGI9047 Exp	3.27	2.30	1.64	1.11	8.32	10.05	18.37	21.61	104
NC+	Jade	2.96	2.39	1.78	1.21	8.34	9.97	18.31	21.54	103
Pioneer	90W3PR1 Exp	3.60	2.41	1.72	1.25	8.98	9.32	18.30	21.53	103
Casterline	ProGro 424	3.12	2.26	1.65	1.19	8.22	10.05	18.27	21.49	103
America's Alfalfa	Aggressor	3.40	2.45	1.56	1.37	8.78	9.33	18.11	21.31	102
Great Plains	Key	3.46	2.30	1.54	1.11	8.41	9.66	18.07	21.26	102
America's Alfalfa	Archer	3.07	2.29	1.64	1.32	8.32	9.72	18.04	21.22	102
Great Plains	Belmont	3.16	2.35	1.72	1.27	8.50	9.49	17.99	21.16	102
MBS	More	3.45	2.29	1.60	1.22	8.56	9.42	17.98	21.15	102
DeKalb	DK 133	3.16	2.21	1.61	1.09	8.07	9.80	17.87	21.02	101
MBS	PGI4212 Exp	3.05	2.35	1.81	1.32	8.53	9.29	17.82	20.96	101
America's Alfalfa	Apollo Supreme	3.32	2.33	1.54	1.20	8.39	9.35	17.74	20.87	100
Great Plains	Cimarron VR	3.28	2.25	1.47	1.16	8.16	9.57	17.73	20.86	100
Cal/West	1309 Exp	3.08	2.11	1.50	1.01	7.70	10.01	17.71	20.84	100
Golden Harvest	GH-755	3.32	2.37	1.53	1.23	8.45	9.26	17.71	20.84	100
Wilbur-Ellis	Jewel	3.32	2.32	1.58	1.16	8.38	9.30	17.68	20.80	100
Cal/West	2514 Exp	3.03	2.17	1.52	1.17	7.89	9.76	17.65	20.76	100
Germain's	WL 323	3.04	2.46	1.67	1.14	8.31	9.27	17.58	20.68	99
Cal/West	OK49	3.04	2.37	1.47	1.19	8.07	9.49	17.56	20.66	99
KS AES & USDA	Riley	3.15	2.27	1.59	1.14	8.15	9.36	17.51	20.60	99
Pioneer	91CO2PR1 Exp	3.19	2.27	1.72	1.26	8.44	8.99	17.43	20.51	98
Germain's	WL 322 HQ	3.43	2.17	1.75	1.15	8.50	8.83	17.33	20.39	98
NE AES & USDA	Perry	3.28	2.26	1.56	1.08	8.18	9.08	17.26	20.31	98
Pioneer	91CO1PR1 Exp	2.92	2.10	1.75	1.22	7.99	9.26	17.25	20.29	97
Sharp	Alfaleaf	3.13	2.33	1.55	1.13	8.14	9.00	17.14	20.16	97
Ohlde (M/W Gen)	Magnum IV	3.10	2.25	1.54	1.21	8.10	8.98	17.08	20.09	96
Northrup King	Fortress	3.02	2.21	1.47	1.17	7.87	9.18	17.05	20.06	96
Pioneer	91112PJ1 Exp	2.93	2.08	1.76	1.34	8.11	8.84	16.95	19.94	96
KS AES & USDA	Kanza	2.94	2.19	1.62	1.15	7.90	8.43	16.33	19.21	92
Pioneer	88C2PI2 Exp	2.53	2.13	1.64	1.15	7.45	8.17	15.62	18.38	88
Average		3.18	2.29	1.63	1.20	8.30	9.40	17.70	20.82	100
C.V.(%)		6.66	6.07	7.67	9.68	3.65	5.84	--	--	--
L.S.D.(0.05)		0.25	0.16	0.17	NS	0.36	0.64	0.88	1.04	5
L.S.D.(0.20)		0.19	0.13	0.13	0.12	0.28	0.50	0.57	0.67	3

NS = No significant difference detected.

<p>LOCATION: Southwest Kansas SW KS Research-Extension Center FINNEY County Near Garden City Keith silt loam</p> <p>ESTABLISHMENT: Sept. 10, 1993; RCB, 4 reps Plots 3'x20'; 3'x20' harvested 32 lb seed/acre Seed planted as received</p>	<p>1995 FERTILIZATION: None</p> <p>1995 PEST CONTROL: Pursuit Plus on April 3</p> <p>1995 IRRIGATION: Flood irrigated on July 11, August 8, August 31, and September 13</p>	<p>1995 CONDITIONS: The first and second cuttings were very slow growing and approximately 2 weeks later than normal because of record precipitation combined with cool temperatures in April and May. August and September weather was extremely hot and dry.</p>
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Appendix: Entrants and entries in 1995 Kansas Alfalfa Performance Tests with unverified fall dormancy and disease resistance ratings

ABI 515-292-2432

ABI Alfalfa
2316 259th St.
Ames , IA 50014

	1	2	3	4	5	6	7	8	9	10	11	12
ABI 9045 Exp	4	H	H	H	H	H	R	H	-	M	-	R
ABI 9141 Exp	4	H	H	H	H	H	-	R	-	M	-	R
ABI 9142	4	H	R	H	H	H	-	R	-	M	-	R
ABI 923DD Exp	3	H	H	H	H	H	M	R	-	R	-	R
Venture	4	H	R	R	H	R	-	H	-	L	-	R

Cal/West 608-786-1554

Cal/West
R.R. 1, Box 70
West Salem , WI 54669

	1	2	3	4	5	6	7	8	9	10	11	12
1309 Exp												
1344 Exp												
1346 Exp												
1469 Exp												
2514 Exp												
OK49												

AgriPro

Agripro Seeds, Inc.
P.O. Box 2962
Shawnee Missio , KS 66201-1

	1	2	3	4	5	6	7	8	9	10	11	12
Dawn	3	H	R	H	R	H	-	R	-	M	-	M
Demand	3	H	H	H	H	H	M	R	-	M	-	R
Depend+EV	4	H	H	H	H	H	M	R	-	M	-	R

Cargill 612-742-6743

Cargill Hybrid Seeds
P.O. Box 5645
Minneapolis , MN 55440

	1	2	3	4	5	6	7	8	9	10	11	12
Crown II	3	H	R	H	H	H	M	R	-	-	-	-
Sterling	2	H	R	H	H	H	R	R	-	-	-	R
Trident II	3	H	R	R	R	H	L	-	-	L	-	M

America's Alfalfa 913-384-4940

America's Alfalfa
P.O. Box 2955
6700 Antioch
Shawnee Missio , KS 66201

	1	2	3	4	5	6	7	8	9	10	11	12
Affinity+Z	4	H	H	H	H	H	-	R	-	R	-	R
Aggressor	4	H	R	H	H	H	M	H	M	M	-	M
Apollo Supreme	4	H	R	H	H	R	-	H	-	-	-	-
Archer	5	M	M	H	R	R	H	H	R	R	R	-
Innovator+Z	3	H	H	H	H	H	M	R	-	R	-	R
Total+Z	3											

Casterline 800-444-4137

Casterline Seeds, Inc.
Box 1377
1st & Maple
Dodge City , KS 67801

	1	2	3	4	5	6	7	8	9	10	11	12
Empress	4	H	R	H	R	H	R	H	-	R	M	-
ProGro 424	4	H	R	H	R	H	R	R	M	-	-	M
Super 55												

Bio-Plant

Bio-Plant Research
P.O. Box 253
Camp Point , IL 62320

	1	2	3	4	5	6	7	8	9	10	11	12
Voyager	4	H	M	R	M	R	M	-	-	-	-	-

Ciba 402-475-0897

Ciba Seeds
201 Benton Court
Lincoln , NE 68521

	1	2	3	4	5	6	7	8	9	10	11	12
Ciba 2444	3	H	R	H	H	H	-	M	-	M	-	R

Appendix: Entrants and entries in 1995 Kansas Alfalfa Performance Tests with unverified fall dormancy and disease resistance ratings

DeKalb 815-758-9323
 DeKalb Plant Genetics Corp.
 3100 Sycamore Rd.
 DeKalb , IL 60115

	1	2	3	4	5	6	7	8	9	10	11	12
DK 125	3	H	R	R	H	R	M	R	-	-	-	-
DK 127												
DK 133	4	H	R	H	H	H	R	R	-	M	-	R

Great Plains 919-362-1583
 Great Plains Research Co., Inc.
 3624 Kildaire Farm Rd.
 Apex , NC 27502

	1	2	3	4	5	6	7	8	9	10	11	12
Belmont	4	H	R	H	H	R	H	H	R	R	M	-
Cimarron VR	4	H	R	H	H	R	H	H	M	R	M	M
Haygrazer	4	H	R	H	R	R	R	R	-	R	R	M
Key	4	H	H	H	H	H	H	H	M	M	M	M

Drussel 316-275-2359
 Drussel Seed and Supply
 2197 W. Parallel Road
 Garden City , KS 67846

	1	2	3	4	5	6	7	8	9	10	11	12
Reward	4	H	R	H	R	H	R	H	M	M	-	M

Hobart Seed 800-866-6074
 Hobart Seed
 530 S. Main
 Hobart , OK 73651

	1	2	3	4	5	6	7	8	9	10	11	12
SuperCuts	4	H	H	H	H	H	-	H	-	L	-	R

Forage Genetics 612-742-6743
 Forage Genetics
 P.O. Box 5645
 Minneapolis , MN 55440

	1	2	3	4	5	6	7	8	9	10	11	12
3T26 Exp												

Hoegemeyer 402-654-3399
 Hoegemeyer Hybrids
 R.R. 2, Box 126
 Hooper , NE 68031

	1	2	3	4	5	6	7	8	9	10	11	12
Green Field	3	H	R	H	H	H	-	H	-	-	-	R

Germain's 913-674-2062
 Germain's Seeds
 P.O. Box 373
 Hill City , KS 67642

	1	2	3	4	5	6	7	8	9	10	11	12
Ogallala 633	4	H	R	R	H	H	H	R	-	M	-	M
WL 252 HQ	2	H	R	H	H	H	M	R	L	R	-	L
WL 317	3	H	R	H	R	H	R	H	-	R	M	-
WL 320	4	R	M	R	M	R	R	M	M	M	-	-
WL 322 HQ	4	H	R	H	M	R	H	H	R	L	R	-
WL 323	4	H	R	H	H	H	M	R	-	H	-	R

ICI 712-792-5760
 ICI Seeds
 R.R. 2 Box 92A
 Carroll , IA 51401

	1	2	3	4	5	6	7	8	9	10	11	12
630	4	H	M	R	M	R	M	R	M	M	-	-
645												

Golden Harvest 402-779-2531
 The J.C. Robinson Seed Co.
 100 J.C. Robinson Blvd.
 Waterloo , NE 68069

	1	2	3	4	5	6	7	8	9	10	11	12
GH-755	4	H	R	H	H	H	R	R	R	R	-	R

Johnston 405-233-5800
 Johnston Seed Co.
 P.O. Box 1392
 Enid , OK 73702

	1	2	3	4	5	6	7	8	9	10	11	12
Good as Gold	4	H	R	H	R	H	R	H	M	-	-	L

Appendix: Entrants and entries in 1995 Kansas Alfalfa Performance Tests with unverified fall dormancy and disease resistance ratings

Keltgen 605-983-5171
 Keltgen Seed Co.
 103 Cherry St.
 Arlington, SD 57212

	1	2	3	4	5	6	7	8	9	10	11	12
Allegro	4	H	R	H	H	H	M	H	-	M	-	R

NC+ 913-626-3034
 NC+ Hybrids
 404 S. 5th
 Atwood, KS 67730

	1	2	3	4	5	6	7	8	9	10	11	12
Jade	4	H	R	R	R	H	M	-	-	-	-	-
Sierra	3	H	R	H	R	H	R	-	L	M	M	M

KS AES & USDA 913-532-6115
 KSU-Foundation Seed
 2200 Kimball Ave.
 Manhattan, KS 66502

	1	2	3	4	5	6	7	8	9	10	11	12
Kanza												
Riley	4	H	L	-	M	-	H	H	-	-	-	-

NE AES & USDA 402-472-4290
 Nebraska Foundation Seed
 University of Nebraska-Lincoln
 3115 North 70th
 Lincoln, NE 68507-2

	1	2	3	4	5	6	7	8	9	10	11	12
Perry	3	R	-	-	L	-	M	R	-	-	-	-

MBS 515-296-2676
 Mike Brayton Seeds, Inc.
 P.O. Box 308
 2055 Ironwood Court
 Ames, IA 50010

	1	2	3	4	5	6	7	8	9	10	11	12
Crystal	4	H	R	H	R	H	L	R	M	M	-	L
MBS 2042 Exp												
More												
PGI3212 Exp												
PGI3392 Exp												
PGI4212 Exp												
PGI4372 Exp												
PGI9047 Exp												

Northrup King 316-543-2707
 Northrup King Co.
 1060 Wheatland
 Buhler, KS 67522

	1	2	3	4	5	6	7	8	9	10	11	12
Fortress	4	R	R	R	-	H	H	R	-	H	-	-
MB5141 Exp												
MultiKing1	3	H	R	H	R	R	M	M	-	M	-	-
Rushmore	4	H	R	H	H	H	H	R	-	-	-	H
Viking 1	2	R	H	H	R	R	-	M	M	-	-	-

Mycogen 806-995-4111
 Mycogen Plant Sciences
 P.O. Box 68
 505 South 87th
 Tulia, TX 79088

	1	2	3	4	5	6	7	8	9	10	11	12
Multi-plier	3	H	R	H	H	H	M	R	-	-	-	-
TMF Generation	4	H	H	H	H	H	-	R	-	-	-	R

Ohlde (M/W Gen) 913-692-4555
 Ohlde Seed Farms
 Midwest Seed Genetics
 Box 63 RR 1
 Palmer, KS 66962

	1	2	3	4	5	6	7	8	9	10	11	12
Magnum III	4	R	M	R	M	R	M	R	M	M	-	L
Magnum IV	4	H	R	H	R	H	M	-	M	R	M	M

Pioneer 515-270-3342
 Pioneer Hi-Bred Int., Inc.
 Box 287
 7305 NW 62nd
 Johnston, IA 50131

	1	2	3	4	5	6	7	8	9	10	11	12
5364	4	R	M	R	M	M	H	H	-	R	-	-
5432	4	H	R	H	-	M	H	R	-	M	-	-

(continued)

Appendix: Entrants and entries in 1995 Kansas Alfalfa Performance Tests with unverified fall dormancy and disease resistance ratings

5454	4	R	M	H	H	H	R	R	-	M	-	L
87CV842 Exp												
88C2PI2 Exp												
88W2CR2 Exp												
90W3PR1 Exp												
91CO1PR1 Exp												
91CO2PR1 Exp												
91112PJ1 Exp												

Fall Dormancy and disease resistance ratings are from ***Alfalfa Varieties***, a publication of the Certified Alfalfa Seed Council, or from developers of the varieties. Blank spaces indicate that the variety has not been adequately tested.

Sharp 316-398-2231

Sharp Bros. Seed Company
Box 140
Healy, KS 67850

	1	2	3	4	5	6	7	8	9	10	11	12
Alfaleaf	4	H	R	R	R	H	R	R	-	-	-	M

Star 800-782-7611

Star Seed, Inc.
P.O. Box 504
Beloit, KS 67420

	1	2	3	4	5	6	7	8	9	10	11	12
A-100												
Asset	4	H	R	R	R	H	R	R	-	-	-	M

Union

Union Seeds
P.O. Box 339
Nampa, ID 83651

	1	2	3	4	5	6	7	8	9	10	11	12
UN-74												

Wilbur-Ellis 719-336-2226

Wilbur-Ellis
P.O. Box 1017
Lamar, CO 81052

	1	2	3	4	5	6	7	8	9	10	11	12
Jewel	4	H	R	R	R	H	R	R	-	-	-	M
Mede	5	M	M	H	R	R	H	R	R	-	R	-

Variety characterization codes:

- 1 = Fall dormancy rating (see below)
- 2 = Bacterial Wilt
- 3 = Verticillium Wilt
- 4 = Fusarium Wilt
- 5 = Anthracnose Race 1
- 6 = Phytophthora Root Rot
- 7 = Spotted Alfalfa Aphid
- 8 = Pea Aphid
- 9 = Blue Alfalfa Aphid
- 10 = Stem Nematode
- 11 = Root Knot Nematode
- 12 = Aphanomyces Root Rot race 1

Fall dormancy ratings

Check variety	Dormancy rating
Norseman	1
Vernal	2
Ranger	3
Saranac	4
DuPuits	5
Lahontan	6
Mesilla	7
Moapa 69	8
CUF 101	9

Pest resistance ratings

Code	Resistance class	% Resistant plants
S	Susceptible	0-5%
L	Low Resistance	6-14%
M	Moderate Resistance	15-30%
R	Resistance	31-50%
H	High Resistance	>50%
-	Not adequately tested	

Excerpts from the

UNIVERSITY RESEARCH POLICY AGREEMENT WITH COOPERATING SEED COMPANIES*

Permission is hereby given to Kansas State University to test our varieties and/or hybrids designated on the attached entry forms in the manner indicated on the test announcement. I understand that all results from Kansas crop performance tests belong to the University and to the public and shall be controlled by the University so as to produce the greatest benefit to the public. It is further agreed that the name of the University shall not be used by the company in any commercial advertising either in regard to this agreement or any other related matter.

* This agreement must be signed by an authorized individual before results involving the company's entries can be published by the Experiment Station. Except for the limitation that the name "KANSAS STATE UNIVERSITY" cannot be used in advertising (you may use something like "official state tests" or "state yield trials"), this does not preclude the use of data for advertising, if done in a fair manner.

CONTRIBUTORS

MAIN STATION, MANHATTAN

Kraig Roozeboom, Associate Agronomist (Senior Author)

RESEARCH CENTERS

Joe Moyer, Parsons

Merle Witt, Garden City

EXPERIMENT FIELDS

W. Barney Gordon, Belleville

Brian Marsh, Powhattan

Victor Martin, St. John

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

SRP753 Agricultural Experiment Station, Kansas State University, Manhattan 66506-4008 January 1996

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