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## G77-357 Selecting Alfalfa Varieties for Nebraska (Revised December 1997)

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## Selecting Alfalfa Varieties for Nebraska

**Yield potential, pest resistance and seed price all should be considered in selecting alfalfa varieties in Nebraska. This NebGuide discusses them.**

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Patrick E. Reece, Extension Range Specialist*

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The most important variety decision made on many farms and ranches is the selection of alfalfa. The choice of alfalfa variety affects production for three to 10 or more years, whereas varieties of annual crops can be changed every year.

Many alfalfa varieties are available from private and public plant breeders. Over the years, yield trials conducted at widely distributed Nebraska locations have tested most varieties sold in the state.

The originator or distributor of each variety is listed in *Table I* as a source of seed information. Public varieties are usually available in certified seed channels. Some varieties may be difficult to obtain due to low seed supply or limited distribution. Only buy seed of certified quality to assure genetic identity of the variety. Common seed should not be planted for forage production.

Select alfalfa varieties according to three criteria:

1. Yield potential
2. Pest resistance
3. Seed price

Use *Table I* to identify high yield varieties. Then select from this list those varieties with desirable pest resistance. Finally, compare seed price.

## **Fall Dormancy**

Low dormancy ratings indicate varieties have slower regrowth after harvest and grow slowly in the fall. Slow fall growth has been considered desirable for developing winter hardiness, but some recently released varieties have high winter hardiness and higher dormancy ratings (faster fall growth).

## **Resistance to Disease**

### **Bacterial wilt**

Historically, this has been the primary disease of alfalfa in Nebraska. All varieties in this NebGuide have sufficient bacterial wilt resistance for most long-term stands. There are different degrees of resistance within varieties classified as bacterial wilt resistant.

### **Anthracnose**

Anthracnose is a fungal disease often occurring in alfalfa under irrigation or high moisture conditions. Varieties with anthracnose resistance should be selected.

### **Phytophthora root rot**

Phytophthora root rot is a serious disease, especially on poorly drained soils. It can make stand establishment difficult and often kills young seedlings during wet seasons. It also can reduce the productivity and longevity of established stands.

### **Other diseases**

Common leafspot, lepto leafspot and blackstem are foliar diseases that cause leaf losses and reduce both total alfalfa yield and quality. Fusarium wilt and verticillium wilt are diseases that have not caused severe problems in Nebraska.

Varieties listed in *Table I* have been developed with resistance to some of these diseases. Select varieties that have resistance to anthracnose, phytophthora root rot and bacterial wilt.

## **Resistance to Insects**

Insects can cause losses in hay yield and quality, stand establishment and persistence. Several varieties have low to moderate resistance or tolerance to potato leafhopper yellowing. Varieties with high levels of resistance to pea aphids or spotted alfalfa aphids, or both, are available.

## **Alfalfa Yields**

Varieties that have been tested since 1991 for two or more years at locations in Nebraska and marketed in the state are shown in *Table I*. Data collected from these varieties since 1978 are included in the table. Yield comparisons are relative to production from the check varieties Vernal and Wrangler included in the same tests. A yield of 115 percent indicates that the variety produced 15 percent more yield than the average yield of Vernal and Wrangler. Each station year represents data from one location during one year. Greater confidence can be placed in data from four or more station years. Small yield differences (2 or 3 percent) may be due to natural variation, especially for varieties tested three station years or less.

The rating of varieties tested only two years often changes substantially with additional testing.

Table I. Characteristics and relative yields (percent) of alfalfa varieties in selected Nebraska tests, 1978-1997.

Variety	Originator or Distributor	Pest Resistance								Saunders County Irr.		Dixon County Dryland		Dawson County Sub-irri.		Panhandle Irr.	
		FD							S/Y	%	S/Y	%	S/Y	%	S/Y	%	
			Bw	An	Prr	Fw	Vw	Saa									Pa
A 395 <sup>1</sup>	PGI/MBS	3	HR	HR	HR	HR	R	—	MR	4	111	—	—	—	—	1	110
Achieva	Allied Seed	3	R	HR	HR	HR	R	R	R	3	99	—	—	—	—	2	105
Affinity+Z <sup>1</sup>	America's Alfalfa <sup>2</sup>	4	HR	HR	HR	HR	HR	—	R	2	106	—	—	—	—	—	—
Aggressor	America's Alfalfa <sup>2</sup>	4	HR	HR	HR	HR	R	MR	HR	6	113	2	107	2	103	2	103
Alfagraze	America's Alfalfa <sup>2</sup>	2	R	MR	LR	R	—	—	R	2	102	—	—	—	—	—	—
Alfaleaf	Plains Alfalfa Assoc. <sup>4</sup>	4	HR	R	HR	R	R	R	R	10	101	5	101	2	111	4	109
Alfaleaf II	Plains Alfalfa Assoc. <sup>4</sup>	4	R	HR	HR	HR	R	R	HR	3	100	—	—	—	—	1	109
Allegro	Mycogen Seeds	4	HR	HR	HR	HR	R	MR	HR	3	112	—	—	—	—	—	—
AlfaStar	Hoffman Seed	4	HR	HR	HR	HR	R	R	HR	2	101	—	—	—	—	—	—
Alpha 2001	Great Lakes Hybrids	4	HR	HR	HR	HR	HR	R	R	2	101	1	104	—	—	—	—
Alpine II <sup>1</sup>	Bio Plant Research	—	—	—	—	—	—	—	—	2	111	—	—	—	—	—	—
Apollo Supreme	America's Alfalfa <sup>2</sup>	4	HR	HR	R	HR	R	—	HR	9	111	3	97	4	107	2	108
Arrow	America's Alfalfa <sup>2</sup>	3	HR	MR	HR	HR	R	—	R	15	110	5	99	2	102	4	104
Aspen	Superior Hybrids	4	HR	HR	HR	HR	R	—	HR	2	101	—	—	—	—	—	—
Asset	Allied	4	HR	R	HR	R	R	R	R	7	107	2	104	2	113	2	112
Avalanche +Z	America's Alfalfa <sup>2</sup>	2	HR	HR	HR	HR	HR	—	R	—	—	—	—	2	102	3	112
Award <sup>1</sup>	Asgrow	4	HR	HR	HR	HR	HR	HR	HR	4	116	—	—	—	—	—	—
Baker	Public	2	HR	LR	S	R	S	HR	HR	37	96	13	106	7	99	13	97
Banquet <sup>1</sup>	Tri-State Seed	4	HR	HR	HR	HR	HR	MR	R	4	113	—	—	—	—	—	—
Blazer XL	Sharp Bros. Seed	3	R	HR	HR	HR	R	HR	R	—	—	—	—	—	—	2	101
Bounty <sup>1</sup>	PGI/MBS	2	HR	HR	HR	HR	R	—	—	3	110	—	—	—	—	—	—
Chief	Mycogen Seeds	4	HR	R	HR	R	R	R	R	18	107	5	98	2	107	4	110
Choice	FFR Coop.	4	HR	R	HR	R	HR	R	MR	2	109	—	—	—	—	—	—
Cimarron VR	Great Plains/Holdrege Seed	5	HR	HR	MR	HR	R	HR	HR	5	105	2	98	4	107	2	101
Columbo	PGI/MBS	3	R	R	R	HR	HR	R	HR	3	105	—	—	—	—	—	—
Complete <sup>1</sup>	Arrow/Fontanelle	3	HR	HR	HR	HR	HR	—	R	3	108	—	—	—	—	1	113
Crown II	Cargill	3	HR	HR	HR	HR	R	MR	R	2	107	2	107	—	—	—	—
Crystal	PGI/MBS	4	HR	R	HR	HR	R	LR	R	7	111	—	—	—	—	—	—
Dart	AgriPro	3	HR	R	HR	HR	R	—	R	14	110	5	101	4	109	4	113
Dawn	AgriPro	3	HR	R	HR	HR	R	MR	R	8	113	5	97	2	102	4	112
Dawson	Public	2	R	S	S	R	S	R	R	37	95	13	90	9	106	13	92
Defiant <sup>1</sup>	AgriPro	2	HR	R	HR	HR	HR	—	R	4	116	—	—	—	—	2	110
DEI 973 <sup>1</sup>	Direct Enterprises	3	HR	HR	HR	HR	R	—	4	112	1	108	—	—	—	—	—
Demand <sup>1</sup>	AgriPro	3	HR	HR	HR	HR	HR	MR	R	6	105	—	—	2	101	2	111
Depend +EV	AgriPro	4	HR	HR	HR	HR	HR	MR	R	2	112	1	105	—	—	1	114
Dividend <sup>1</sup>	Allied/Agway	2	HR	HR	HR	HR	R	HR	R	3	109	—	—	—	—	—	—
DK 122	DEKALB Genetics	2	HR	HR	HR	R	R	MR	R	—	—	—	—	—	—	2	110
DK 125	DEKALB Genetics	3	HR	HR	R	R	R	MR	R	9	109	2	114	4	111	2	106
DK 127 <sup>1</sup>	DEKALB Genetics	3	HR	HR	HR	R	R	HR	HR	3	102	1	106	2	106	1	115
DK 133	DEKALB Genetics	4	HR	HR	HR	HR	R	R	R	13	109	4	99	2	111	3	114
Dominator	Agripro	4	HR	HR	HR	HR	R	—	R	11	110	4	98	—	—	2	109
Empire <sup>1</sup>	Brunner Seed	2	HR	HR	HR	HR	R	—	—	2	112	—	—	—	—	—	—
Enhancer	Rosen's	4	HR	R	HR	HR	R	R	—	3	110	1	115	—	—	—	—
Envy	Peterson Seed	3	HR	HR	R	HR	R	—	R	10	112	—	—	2	102	2	110
Evolution	Mycogen Seeds	2	HR	HR	HR	HR	R	—	R	4	112	3	98	—	—	—	—
5246	Pioneer	3	HR	HR	HR	HR	R	R	R	12	112	4	98	2	108	4	113
5262	Pioneer	2	HR	—	R	MR	LR	R	R	4	110	2	104	4	115	—	—
5312	Pioneer	3	HR	HR	HR	HR	HR	HR	HR	6	109	1	100	2	110	3	115
5364	Pioneer	4	R	MR	MR	R	MR	HR	HR	16	112	7	105	2	117	4	115
5454	Pioneer	4	R	HR	HR	HR	MR	R	R	12	109	4	98	2	104	4	114
Flagship 75	Fontanelle	2	HR	R	HR	HR	R	—	MR	3	98	—	—	2	100	2	109
Forerunner <sup>1</sup>	Research Seeds	2	HR	HR	HR	HR	HR	R	HR	4	99	—	—	—	—	—	—
Gangbusters <sup>1</sup>	Ray Bros. Seed	4	HR	MR	R	R	R	—	R	4	110	—	—	—	—	—	—
Genesis	Pfister Hybrids	3	HR	HR	HR	HR	R	—	HR	3	110	2	92	—	—	—	—
GH 737	Golden Harvest	4	R	MR	HR	R	R	R	R	2	109	—	—	2	101	2	103
GH 755	Golden Harvest	4	HR	HR	HR	HR	R	R	R	9	109	3	99	4	106	2	118
GH 766	Golden Harvest	3	HR	HR	HR	HR	R	R	R	3	109	—	—	—	—	1	108
GH 777	Golden Harvest	3	HR	R	HR	HR	R	—	—	—	—	—	—	2	107	—	—
GH 797 <sup>1</sup>	Golden Harvest	3	HR	HR	HR	HR	HR	—	—	2	113	—	—	—	—	—	—
Good as Gold	Hoegemeyer Hybrids	4	HR	R	HR	HR	R	R	—	4	114	2	103	2	112	1	108
Gourmet Hay	Gutwein Seed	4	HR	HR	R	HR	R	MR	HR	2	114	2	96	—	—	—	—
Green Field	Peterson Seed	3	HR	HR	HR	HR	R	—	HR	5	103	1	95	—	—	—	—
Homestead	AgriGene	—	—	—	—	—	—	—	—	7	107	—	—	—	—	—	—
HYGain	HYPerformer Seed	4	HR	R	HR	HR	R	R	HR	3	111	—	—	—	—	—	—
Imperial <sup>1</sup>	Top Farm Hybrids	3	HR	HR	HR	HR	R	MR	HR	2	110	3	94	—	—	—	—
Infinity	Allied Seed	—	—	—	—	—	—	—	—	2	112	—	—	—	—	—	—
Innovator +Z <sup>1</sup>	America's Alfalfa <sup>2</sup>	3	HR	HR	HR	HR	HR	MR	R	4	110	1	103	2	111	1	111
Jade	NC+	4	HR	R	HR	R	R	MR	—	5	120	—	—	4	106	2	113
Jade II <sup>1</sup>	NC+	4	HR	R	HR	HR	R	—	R	4	131	—	—	—	—	1	113
Legendairy	Cenex/Land'O'Lakes	2	HR	HR	HR	HR	HR	HR	R	3	100	—	—	2	100	—	—
MagnaGraze	Dairyland <sup>1</sup>	3	HR	R	HR	HR	R	R	—	3	114	—	—	2	104	2	112
Magnum III	Dairyland <sup>1</sup>	4	R	MR	R	R	MR	MR	R	16	114	4	109	4	119	6	113
Magnum IV	Dairyland <sup>1</sup>	4	HR	R	HR	HR	R	MR	—	5	109	—	—	2	105	2	110
MultiKing I	Novartis Seeds	3	HR	R	R	HR	R	MR	MR	4	112	2	103	2	103	—	—

Table I. Continued.

Variety	Originator or Distributor	FD	Pest Resistance							Saunders County Irr. %		Dixon County Dryland %		Dawson County Sub-irri. %		Panhandle Irr. %	
			Bw	An	Prr	Fw	Vw	Saa	Pa	S/Y	%	S/Y	%	S/Y	%	S/Y	%
Multi-plier	Mycogen Seeds	3	HR	HR	HR	HR	R	MR	R	12	108	2	101	4	105	4	111
MultiQueen	Gutwein Seed	4	HR	HR	HR	HR	R	R	HR	2	108	—	—	—	—	—	—
Multi 7+	Geertson Seed Co.	4	R	R	MR	MR	LR	—	LR	—	—	—	—	—	—	2	105
Paramount <sup>1</sup>	Wyffels Hybrids	3	HR	HR	HR	HR	R	MR	HR	4	110	1	97	—	—	—	—
Perry	Public	3	R	LR	MR	R	S	MR	R	37	102	13	107	9	107	13	106
Persist	Kaltenberg	4	HR	R	HR	HR	R	R	R	1	99	—	—	2	112	—	—
Prism	Wilson Seeds	4	HR	HR	HR	R	R	—	—	4	105	—	—	—	—	—	—
Prism II <sup>1</sup>	Research Seeds	3	HR	HR	HR	HR	R	—	HR	4	108	—	—	—	—	—	—
Pro Gro 424	Casterline	4	HR	R	HR	HR	R	R	R	5	125	—	—	2	102	—	—
Profit	Novartis Seeds	2	HR	MR	R	HR	R	—	MR	—	—	3	99	—	—	—	—
Proleaf <sup>1</sup>	Oasis	4	HR	HR	HR	HR	R	—	MR	3	98	—	—	—	—	—	—
Proof	Mycogen Seeds	3	HR	HR	HR	HR	R	R	R	3	100	1	104	—	—	—	—
Renegade	Geertson Seed Co.	3	R	—	R	MR	LR	R	R	2	110	—	—	—	—	2	109
Reward	Arrow Seed/Drussel Seed & Supply	4	HR	HR	HR	HR	R	R	HR	7	112	1	106	2	111	2	108
Rhino <sup>1</sup>	Geertson Seed Co.	3	HR	R	R	R	R	—	HR	5	111	—	—	—	—	1	107
Riley	Public	4	HR	MR	S	S	LR	HR	HR	37	102	13	101	9	104	13	106
Rushmore	Novartis Seeds	4	HR	HR	HR	HR	R	HR	R	3	110	—	—	2	111	1	109
Rustler II <sup>1</sup>	Andrews Seeds	4	HR	HR	HR	HR	R	HR	5	110	—	—	—	—	—	—	—
Sabre	Allied/Kinder	4	HR	HR	HR	HR	HR	S	HR	5	102	—	—	4	108	—	—
Shamrock <sup>1</sup>	Plains Alfalfa Assoc. <sup>4</sup>	—	—	—	—	—	—	—	—	4	97	—	—	—	—	—	—
Sierra	NC+	3	HR	R	HR	HR	R	R	—	—	—	—	—	—	—	2	103
Spartan	Kinder/Allied	3	HR	HR	HR	HR	R	R	R	2	101	—	—	—	—	—	—
Spirit <sup>1</sup>	Fontanelle	3	HR	R	HR	HR	R	MR	R	3	105	—	—	—	—	1	114
SplenDoor <sup>1</sup>	Research Seeds	—	—	—	—	—	—	—	—	4	113	—	—	—	—	—	—
Sterling	Cargill	2	HR	HR	HR	HR	R	R	R	2	111	1	104	2	107	—	—
Stetson II+	PGI/MBS	3	HR	R	HR	HR	R	—	—	2	108	—	—	—	—	1	108
SuperCuts <sup>1</sup>	Hobart/AgriBio	4	HR	HR	HR	HR	HR	—	R	3	112	—	—	—	—	—	—
Sure	Sharp Bros. Seed	3	HR	HR	R	HR	R	LR	HR	8	110	—	—	2	103	4	109
SX217	Sexauer	4	R	MR	MR	HR	—	HR	—	4	103	2	96	—	—	—	—
Synergy <sup>1</sup>	Crows Hybrids	3	HR	HR	HR	HR	R	—	MR	4	117	—	—	—	—	—	—
620 <sup>1</sup>	Garst	2	HR	HR	HR	HR	R	—	MR	3	113	—	—	—	—	2	110
630	Garst	4	HR	MR	R	R	MR	MR	R	17	111	6	104	6	111	7	110
631	Garst	4	HR	R	HR	HR	R	R	HR	8	116	3	100	2	108	3	106
645	Garst	3	HR	HR	HR	R	R	MR	R	11	111	5	97	4	106	4	104
Target II	Producers Hybrids	4	HR	R	R	R	R	R	—	5	106	—	—	4	114	—	—
TMF Generation	Mycogen Seeds	4	HR	HR	HR	HR	HR	—	R	2	107	—	—	—	—	—	—
Total +Z <sup>1</sup>	America's Alfalfa <sup>2</sup>	3	HR	HR	HR	HR	HR	MR	R	3	110	1	96	2	112	—	—
Treasure	Arrow Seed	3	HR	HR	R	HR	R	R	R	4	111	—	—	—	—	—	—
Trident II	Cargill	3	HR	R	HR	R	R	LR	MR	2	116	—	—	—	—	—	—
330 <sup>1</sup>	Union Seeds	4	HR	HR	HR	HR	R	R	R	4	112	—	—	—	—	—	—
3452 ML	Garst	3	HR	HR	HR	HR	R	—	R	9	111	1	107	2	107	—	—
2444 <sup>1</sup>	Novartis Seeds	3	HR	HR	HR	HR	R	—	MR	5	121	—	—	—	—	1	110
2833	Novartis Seeds	3	HR	HR	HR	HR	R	MR	R	5	110	—	—	—	—	—	—
2888 <sup>1</sup>	Novartis Seeds	3	HR	HR	HR	HR	R	R	HR	3	103	—	—	—	—	1	116
Vernal	Public	2	R	S	S	MR	S	—	—	37	98	13	92	9	104	13	89
Venture	Stauffer Seeds	4	HR	HR	R	R	R	—	HR	7	106	—	—	2	108	—	—
Viking I	Novartis Seeds	2	R	R	R	R	HR	—	MR	6	112	4	98	2	109	2	113
Voyager II	Bio Plant Research	4	HR	R	HR	HR	R	R	HR	3	112	—	—	4	112	—	—
Webfoot MPR	Great Lakes Hybrids	4	HR	HR	HR	HR	HR	—	R	3	103	—	—	2	108	2	120
WL225	Bellamy/Norco	2	HR	MR	HR	HR	R	R	R	4	108	2	104	—	—	4	105
WL252 HQ	Bellamy/Norco	2	HR	HR	HR	HR	R	MR	R	3	109	1	103	—	—	—	—
WL317	Bellamy/Norco	3	HR	R	HR	HR	R	R	HR	5	109	2	101	4	110	2	110
WL320	Bellamy/Norco	4	R	MR	R	R	MR	R	MR	10	108	2	101	2	106	—	—
WL322 HQ	Bellamy/Norco	4	HR	MR	R	HR	R	HR	HR	8	107	3	98	2	100	—	—
WL323	Bellamy/Norco	4	HR	HR	HR	HR	R	MR	R	7	106	3	100	2	104	—	—
WL324 <sup>1</sup>	Bellamy/Norco	3	HR	HR	HR	HR	R	R	HR	2	116	—	—	—	—	1	108
WL325 HQ <sup>1</sup>	Bellamy/Norco	3	HR	HR	HR	HR	R	R	R	4	110	—	—	—	—	1	111
Wrangler	Public	2	R	LR	HR	R	LR	HR	HR	37	103	13	101	9	102	13	102
Zenith	Garst	3	HR	HR	HR	HR	R	HR	R	9	108	—	—	—	—	—	—

<sup>1</sup>Variety tested using experimental seed that may not give performance identical to commercially available seed.<sup>2</sup>America's Alfalfa — Nebraska distributors: Jirton Agri Chemical/Arrow Seed/Kaup Seed/L.G. Seeds.<sup>3</sup>Dairyland Seed Co. — Nebraska distributors: United Seeds/Holdrege Seed/Hergert Milling.<sup>4</sup>Plains Alfalfa Association — Arrow Seed/Miller Seed/Ottillie Seed/Sharp Bros. Seed Co.

S/Y Station Years		Pest Resistance Ratings	
%	Relative yield compared to the average yield of Vernal and Wrangler	Bw An Prr Fw Vw Saa Pa	Bacterial Wilt Anthracnose Phytophthora Root Rot Fusarium Wilt Verticillium Wilt Spotted Alfalfa Aphid Pea Aphid
			% Resistant Plants
			Resistance Class
Blank spaces (—) indicate the variety is susceptible or has not been adequately tested.			0-5%
			6-14%
			15-30%
			31-50%
			51 + %
			Susceptible (S)
			Low Resistance (LR)
			Moderate Resistance (MR)
			Resistant (R)
			High Resistance (HR)

## Seed Originators and Distributors

Originator or Distributor	Address	City, State, Zip	Phone #
AgriGene Seed Co.	720 St. Croix St.	Prescott, WI 54021	800-321-2867
AgriPro Seeds, Inc.	P.O. Box 2962	Shawnee Mission, KS 66201-1362	913-384-4940
Agway, Inc.	P.O. Box 4741	Syracuse, NY 13221	208-466-9218
Allied Seed Cooperative	1917 E. Fargo	Nampa, ID 83687	800-624-8904
America's Alfalfa	6700 Antioch	Shawnee Mission, KS 66201	800-873-2532
Andrews Seeds	580 S. Oregon Street	Ontario, OR 97914	541-889-9109
Arrow Seed Co. <sup>3,5</sup>	P.O. Box 722, 126 North Tenth	Broken Bow, NE 68822	800-622-4727
Asgrow Seed Co.	7000 Portage Rd.	Kalamazoo, MI 49001	616-385-6633
Bellamy Grain Corp.	P.O. Box 246	Cozad, NE 68930-9556	308-784-2666
Bio-Plant Research	P.O. Box 300	Camp Point, IL 62320	217-593-7707
Brunner Seed Farm	P.O. Box 273	Durand, WI 54736	715-872-5887
Cargill Hybrid Seeds	P.O. 405, Hwy. 34 west	Seward, NE 68434	800-346-4853
Casterline & Sons Seed, Inc.	P.O. Box 1377	Dodge City, KS 67801	800-444-4137
Cenex/Land O Lakes	2827 8th Ave. S.	Fort Dodge, IA 50501	800-369-3060
Crows Hybrids	P.O. Box 306	Milford, IL 60953	815-889-4151
DEKALB Genetics Corp.	3100 Sycamore Rd.	Dekalb, IL 60115	800-833-5252
Direct Enterprises, Inc.	P.O. Box 131	Garden City, KS 67846	800-597-2998
Drussel Seed & Supply	2197 W. Parallel Rd.	Garden City, KS 67846	800-597-2998
FFR Cooperative	P.O. Box 322	Battle Ground, IN 47920	317-567-2115

Fontanelle Hybrids	Rt. 1 Box 18	Nickerson, NE 68044	800-279-4353
Garst Seed Co.	2369 330th Street	Slater, IA 50244	888-464-2778
Geertson Seed Farms	1665 Burroughs Rd.	Adrian, OR 97901	800-843-0390
Golden Harvest	100 J.C. Robinson Blvd., Box A	Waterloo, NE 68069	800-228-9906
Great Lakes Hybrids, Inc.	9915 W. M-21	Ovid, MI 48866	800-257-7333
Great Plains Research Co.	3624 Kildaire Farm Road	Apex, NC 27502-8836	800-874-7945
Gutwein Seed (Larry DeNeve)	Rt. 1, Box 188	Prophetstown, IL 61277	815-537-5388
Hergt Milling <sup>4</sup>	P.O. Box 240, 1415 Ave. B	Scottsbluff, NE 69361	308-632-2315
Hobart Seed Co.	P.O. Box 811	Hobart, OK 73651	800-866-6074
Hoegemeyer Hybrids	Rt. 2, Box 126	Hooper, NE 68031	800-245-4631
Holdrege Seed & Farm Supply <sup>4</sup>	West Hwy. 6 & 34, P.O. Box 530	Holdrege, NE 68949	308-995-4465
HYPerformer Seed Co.	Hwy. 1 Crop Row	Memphis, TN 38120	901-756-1771
Jirdon Agri Chemicals <sup>3</sup>	P.O. Box 516, 70927 Hwy. 26	Morrill, NE 69358	800-445-5454
Kaltenberg Seed Farms	5506 State Rd. 19	Waunakee, WI 53597-0278	800-383-3276
Kaup Seed & Fertilizer <sup>3</sup>	133 West Park St.	West Point, NE 68788	402-372-5588
Keltgen Seed	P.O. Box 209	Olivia, MN 56277-0209	800-325-5759
Kinder Seed	P.O. Box 398	Buffalo, NY 14225	716-891-8955
L. Herried Seed	925 Dexter, P.O. Box 216	Prescott, WI 54021	800-637-2887
L.G. Seeds Inc. <sup>3</sup>	P.O. Box 88	Tekamah, NE 68061	402-374-1445
Lynks Seeds	P.O. Box 637	Marshalltown, IA 50158	800-798-2676
Miller Seed & Supply <sup>5</sup>	P.O. Box 587	York, NE 68467	402-362-

			5516
Mycogen Plant Sciences	720 St. Croix St.	Prescott, WI 54021	800-321-2867
NC+ Hybrids	Box 4408	Lincoln, NE 68504	402-467-2517
Norco Feeds	P.O. Box 56	Norfolk, NE 68702	800-658-4388
Novartis Seeds, Inc.	7500 Olson Memorial Hwy.	Golden Valley, MN 55427	612-593-7333
Oasis Seed Cooperative <sup>5</sup>	P.O. Box 107	Oasis, UT 84650	801-864-3614
Ottillie Seed <sup>5</sup>	1462 Sanford Ave.	Marshalltown, IA 50158	800-798-6884
PGI/MBS	2055 Ironwood Ct., Box 308	Ames, IA 50010	800-247-3967
Peterson Seed Co., Inc.	P.O. Box 346	Savage, MN 55378	800-328-5898
Pfister Hybrids	187 N. Fayette	Elpaso, IL 61738	309-527-6000
Pioneer Hi-Bred Intl., Inc.	210 Gateway North, P.O. Box 5307	Lincoln, NE 68505	402-467-5458
Producers Hybrids	Rt. #1, Box C	Battle Creek, NE 68715	402-675-2975
Research Seeds	Box 1393	St. Joseph, MO 64502	800-821-7666
Rosen's Inc.	700 SW 291 Hwy Ste. 204	Liberty, MO 64068	816-787-9191
The Sexauer Co.	2019 Riverside	Norfolk, NE 68701	800-642-6077
Tri-State Seed	P.O. Box 354	Sleepy Eye, MN 56085	507-794-3078
Sharp Bros. Seed Co. <sup>5</sup>	101 E. 4th Street	Greeley, CO 80631	970-356-4710
Stauffer Seeds	P.O. Box 68, 1118 N. 57	Aurora, NE 68818	800-676-7759
Superior Hybrid Co.	P.O. Box 595	North Bend, NE 68649	402-652-8626
Union Seed Co.	P.O. Box 339	Nampa, ID 83653-0339	208-466-3568
United Seeds <sup>4</sup>	P.O. Box 27322	Omaha, NE 68127	402-331-4800



Wilson Seeds Inc.	P.O. Box 391, 1408 Hwy. 44 East	Harlen, IA 51537	800-747- 1200
<sup>1</sup> Ratings of these varieties likely are higher than might normally be expected. Yields comparing them to Vernal and Wrangler came from wet growing seasons. This caused phytophthora root rot susceptible varieties, like Vernal, to yield less than normal and resistant varieties to yield comparatively higher. <sup>2</sup> Variety tested using experimental seed that may not give performance identical to commercially available seed. <sup>3</sup> America's Alfalfa — Nebraska distributors: Jirdon Agri Chemical/Arrow Seed/Kaup Seed/L.G. Seeds. <sup>4</sup> Dairyland Seed Co. — Nebraska distributors: United Seeds/Holdrege Seed/Hergert Milling. <sup>5</sup> Plains Alfalfa Association — Arrow Seed/Miller Seed/Ottolie Seed/Sharp Bros. Seed Co.			

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***File G357 under: FIELD CROPS***

***B-13, Forages***

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