

1999

EC99-153-A Selecting Alfalfa Varieties for Nebraska

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Selecting Alfalfa Varieties for Nebraska

Bruce Anderson, Extension Forage Specialist; Michael Trammell, Research Technologist;
and Patrick E. Reece, Extension Range Specialist

The most important variety decision for many farms and ranches is the selection of alfalfa. While varieties of annual crops can be changed annually, the choice of alfalfa affects production for three to ten years.

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* and *Table II* 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* and *Table II* 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 winterhardiness 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 listed in this Extension Circular 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. Select varieties with anthracnose resistance.

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.

Varities listed in *Table I* and *Table II* 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. Varieties with high levels of resistance to pea aphids or spotted alfalfa aphids, or both, are available.

Alfalfa Yields

Varities that have been tested with commercial seed 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.

Nebraska Cooperative
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Extension Circular
Received on: 03-19-99
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Institute of Agriculture and Natural Resources.

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Table I. Characteristics and relative yields (percent) of alfalfa varieties in selected Nebraska tests, 1978-1998.

Variety	Originator or Distributor	Pest Resistance								Saunders County Irrigation		Dixon County Dryland		Dawson County Sub-irrigation		Panhandle Irrigation	
		FD	Bw	An	Prr	Fw	Vw	Saa	Pa	S/Y	%	S/Y	%	S/Y	%	S/Y	%
A 395	PGI/MBS	3	HR	HR	HR	HR	R	—	MR	2	109	—	—	—	—	2	109
Achieva	Allied Seed	3	R	HR	HR	HR	R	R	R	4	97	—	—	—	—	2	105
Affinity+Z	America's Alfalfa ¹	4	HR	HR	HR	HR	HR	—	R	1	113	1	109	—	—	—	—
Aggressor	America's Alfalfa ¹	4	HR	HR	HR	HR	R	MR	HR	6	113	2	107	2	103	2	103
Alfagraze	America's Alfalfa ¹	2	R	MR	LR	R	—	—	R	2	102	—	—	—	—	—	—
Alfaleaf	Plains Alfalfa Assoc. ³	4	HR	R	HR	R	R	R	R	10	101	5	101	2	111	4	109
Alfaleaf II	Plains Alfalfa Assoc. ³	4	R	HR	HR	HR	R	R	HR	5	102	2	99	—	—	2	105
Allegro	Mycogen Seeds	4	HR	HR	HR	HR	R	MR	HR	4	108	—	—	—	—	—	—
AlfaStar	Kaystar Seeds	4	HR	HR	HR	HR	R	R	HR	3	100	—	—	—	—	—	—
Alpha 2001	Great Lakes Hybrids	4	HR	HR	HR	HR	HR	R	R	3	102	2	101	—	—	—	—
AmeriGraze 401+Z	America's Alfalfa ¹	4	HR	HR	HR	HR	HR	—	R	1	115	—	—	—	—	2	106
Apollo Supreme	America's Alfalfa ¹	4	HR	HR	R	HR	R	—	HR	9	111	3	97	4	107	2	108
Arrow	America's Alfalfa ¹	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	3	102	—	—	—	—	—	—
Asset	Allied	4	HR	R	HR	R	R	R	R	8	105	2	104	2	113	2	112
Avalanche +Z	America's Alfalfa ¹	2	HR	HR	HR	HR	HR	—	R	—	—	—	—	2	102	4	112
Baker	Public	2	HR	LR	S	R	S	HR	HR	40	95	15	105	7	99	14	97
Bighorn	Cargill	4	HR	HR	HR	HR	R	R	R	2	108	1	109	—	—	2	111
Blazer XL	Sharp Bros. Seed	3	R	HR	HR	HR	R	HR	R	—	—	—	—	—	—	2	101
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	3	107	—	—	—	—	—	—
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	Arrow/Fontanelle	3	HR	HR	HR	HR	HR	—	R	3	105	1	109	—	—	2	110
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	9	110	—	—	—	—	—	—
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	41	93	15	90	9	106	14	92
Demand	AgriPro	3	HR	HR	HR	HR	HR	MR	R	3	105	—	—	2	101	2	111
Depend +EV	AgriPro	4	HR	HR	HR	HR	HR	MR	R	4	111	3	106	—	—	2	113
DK 122	DEKALB Genetics	2	HR	HR	HR	R	R	MR	R	—	—	—	—	—	—	2	110
DK125	DEKALB Genetics	3	HR	HR	R	R	R	MR	R	9	109	2	114	4	111	2	106
DK 127	DEKALB Genetics	3	HR	HR	HR	R	R	HR	HR	2	106	2	104	—	—	2	110
DK133	DEKALB Genetics	4	HR	HR	HR	HR	R	R	R	15	109	5	98	2	111	4	112
Dominator	AgriPro	4	HR	HR	HR	HR	R	—	R	13	110	6	101	—	—	2	109
Enhancer	Rosen's	4	HR	R	HR	HR	R	R	—	5	112	2	112	—	—	—	—
Envy	Peterson Seed	3	HR	HR	R	HR	R	—	R	11	110	—	—	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	14	109	5	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	9	108	3	104	2	110	4	114
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	15	109	6	99	2	104	4	114
Flagship 75	Fontanelle	2	HR	R	HR	HR	R	—	MR	4	96	—	—	2	100	2	109
Genesis	Pfister Hybrids	3	HR	HR	HR	HR	R	—	HR	4	107	3	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	10	108	3	99	4	106	2	118
GH 766	Golden Harvest	3	HR	HR	HR	HR	R	R	R	4	108	—	—	—	—	2	107
GH 777	Golden Harvest	3	HR	R	HR	HR	R	—	—	—	—	—	—	2	107	—	—
Good as Gold	Hoegemeyer Hybrids	4	HR	R	HR	HR	R	R	—	4	114	2	103	2	112	2	106
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	7	100	2	92	—	—	—	—
Homestead	AgriGene	—	—	—	—	—	—	—	—	7	107	—	—	—	—	—	—
HYGain	HYPerformer Seed	4	HR	R	HR	HR	R	R	HR	4	109	—	—	—	—	—	—
Imperial	Top Farm Hybrids	3	HR	HR	HR	HR	R	MR	HR	3	106	—	—	—	—	—	—
Infinity	Allied Seed	—	—	—	—	—	—	—	—	3	110	2	98	—	—	—	—
Innovator +Z	America's Alfalfa¹	3	HR	HR	HR	HR	HR	MR	R	2	107	2	102	—	—	2	113
Jade	NC+	4	HR	R	HR	R	R	MR	—	6	116	—	—	4	106	2	113
Jade II	NC+	4	HR	R	HR	HR	R	—	R	1	115	1	111	—	—	2	112
LegenDairy	Cenex/Land'O'Lakes	2	HR	HR	HR	HR	HR	HR	R	4	100	—	—	2	100	—	—
LegenDairy 2.0	Croplan Genetics	3	HR	HR	HR	HR	R	R	HR	2	105	—	—	—	—	—	—
MagnaGraz	Dairyland²	3	HR	R	HR	HR	R	R	—	4	110	—	—	2	104	2	112
Magnum III	Dairyland²	4	R	MR	R	R	MR	MR	R	16	114	4	109	4	119	6	113
Magnum IV	Dairyland²	4	HR	R	HR	HR	R	MR	—	7	108	—	—	2	105	2	110
MultiKing 1	Novartis Seeds	3	HR	R	R	HR	R	MR	MR	4	112	2	103	2	103	—	—
Multi-plier	Mycogen Seeds	3	HR	HR	HR	HR	R	MR	R	14	106	2	101	4	105	4	111
MultiQueen	Miller Seed	4	HR	HR	HR	HR	R	R	HR	3	104	—	—	—	—	—	—
Multi 7+	Geertson Seed Co.	4	R	R	MR	MR	LR	—	LR	—	—	—	—	—	—	2	105
Paramount	Wyffels Hybrids	3	HR	HR	HR	HR	R	MR	HR	—	—	2	95	—	—	—	—
Perry	Public	3	R	LR	MR	R	S	MR	R	41	101	15	107	9	107	14	106
Persist	Kaltenberg	4	HR	R	HR	HR	R	R	R	2	108	—	—	2	112	—	—
Prism	Wilson Seeds	4	HR	HR	HR	R	R	—	—	4	105	—	—	—	—	—	—
Prism II	Research Seeds	3	HR	HR	HR	HR	R	—	HR	1	115	—	—	—	—	—	—
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	—	—	—	—
Proof	Mycogen Seeds	3	HR	HR	HR	HR	R	R	R	4	99	2	102	—	—	—	—
Rainier	Novartis Seeds	3	HR	HR	HR	HR	R	HR	HR	—	—	1	108	—	—	2	108
Renegade	Geertson Seed Co.	3	R	—	R	MR	LR	R	R	2	110	—	—	—	—	2	109
Reward	Arrow Seed/Drussel Seed & Supply	4	HR	R	HR	HR	R	R	HR	9	109	2	102	2	111	2	108
Rhino	Geertson Seed Co.	3	HR	R	R	R	R	—	HR	2	109	1	103	—	—	2	109
Riley	Public	4	HR	MR	S	S	LR	HR	HR	41	102	15	101	9	104	14	106
Rushmore	Novartis Seeds	4	HR	HR	HR	HR	R	HR	R	4	106	—	—	2	111	2	106
Sabre	Allied/Kinder	4	HR	HR	HR	HR	HR	S	HR	6	101	—	—	4	108	—	—
Sierra	NC+	3	HR	R	HR	HR	R	R	—	—	—	—	—	—	—	2	103

Spartan	Kinder/Allied	3	HR	HR	HR	HR	R	R	R	3	97	2	96	—	—	—	—
Spirit	Fontanelle	3	HR	R	HR	HR	R	MR	R	2	114	—	—	—	—	2	109
Sterling	Cargill	2	HR	HR	HR	HR	R	R	R	3	109	2	103	2	107	—	—
Stetson II+	PGI/MBS	3	HR	R	HR	HR	R	—	—	5	112	—	—	—	—	2	106
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	—	—	—	—
620	Garst	2	HR	HR	HR	HR	R	—	MR	—	—	1	104	—	—	2	110
630	Garst	4	HR	MR	R	R	MR	MR	R	19	109	6	104	6	111	8	110
631	Garst	4	HR	R	HR	HR	R	R	HR	11	115	3	100	4	103	4	107
645	Garst	3	HR	HR	HR	R	R	MR	R	12	110	5	97	4	106	4	104
Target II	Producers Hybrids	4	HR	R	R	R	R	R	—	7	106	—	—	4	114	—	—
TMF Generation	Mycogen Seeds	4	HR	HR	HR	HR	HR	—	R	3	104	3	106	—	—	—	—
TMF Multiplier II	Mycogen Seeds	3	HR	HR	HR	HR	HR	—	HR	2	105	1	105	—	—	2	107
Total +Z	America's Alfalfa ¹	3	HR	HR	HR	HR	HR	MR	R	—	—	2	95	—	—	—	—
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	—	—	—	—	—	—
3452 ML	Garst	3	HR	HR	HR	HR	R	—	R	11	109	2	105	2	107	—	—
2444	Novartis Seeds	3	HR	HR	HR	HR	R	—	MR	2	107	1	113	—	—	2	111
2833	Novartis Seeds	3	HR	HR	HR	HR	R	MR	R	5	110	—	—	—	—	—	—
2888	Novartis Seeds	3	HR	HR	HR	HR	R	R	HR	2	107	2	104	—	—	2	113
Vernal	Public	2	R	S	S	MR	S	—	—	41	96	15	92	9	104	14	89
Venture	Stauffer Seeds	4	HR	HR	R	R	R	—	HR	7	106	—	—	2	108	—	—
Viking 1	Novartis Seeds	2	R	R	R	HR	HR	—	MR	7	110	5	97	2	109	2	113
Voyager II	Bio Plant Research	4	HR	R	HR	HR	R	R	HR	4	109	—	—	4	112	—	—
Webfoot MPR	Great Lakes Hybrids	4	HR	HR	HR	HR	HR	—	R	3	103	—	—	2	108	2	120
Wetland	Producers Hybrids	3	R	R	HR	R	MR	MR	—	2	113	—	—	—	—	—	—
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	4	104	2	99	—	—	—	—
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	9	106	3	98	2	100	—	—
WL323	Bellamy/Norco	4	HR	HR	HR	HR	R	MR	R	8	105	3	100	2	104	—	—
WL324	Bellamy/Norco	3	HR	HR	HR	HR	R	R	HR	1	120	1	109	—	—	2	105
WL325 HQ	Bellamy/Norco	3	HR	HR	HR	HR	R	R	R	2	109	1	110	—	—	2	108
Wrangler	Public	2	R	LR	HR	R	LR	HR	HR	41	103	15	100	9	102	14	102
Zenith	Garst	3	HR	HR	HR	HR	R	HR	R	9	108	—	—	—	—	—	—

Table II. Characteristics and relative yields (percent) of alfalfa varieties using experimental generation seed in selected Nebraska tests, 1993-1998. NOTE: Yield performance using experimental seed may not be identical to yield using commercial seed. Experimental seed usually produces higher yield than commercial seed.

Variety	Originator or Distributor	Pest Resistance								Saunders County Irrigation		Dixon County Dryland		Dawson County Sub-irrigation		Panhandle Irrigation	
		FD	Bw	An	Prr	Fw	Vw	Saa	Pa	S/Y	%	S/Y	%	S/Y	%	S/Y	%
Abound	Asgrow	—	—	—	—	—	—	—	—	3	98	—	—	—	—	—	—
Affinity+Z	America's Alfalfa ¹	4	HR	HR	HR	HR	HR	—	R	3	106	2	104	—	—	—	—
Alpine II	Bio Plant Research	2	HR	HR	HR	HR	R	—	—	3	106	—	—	—	—	—	—
Complete	Arrow/Fontanelle	3	HR	HR	HR	HR	HR	—	R	—	—	2	100	—	—	—	—
DEI 973	Direct Enterprises	3	HR	HR	HR	HR	R	—	—	4	112	2	103	—	—	—	—
DK 127	DEKALB Genetics	3	HR	HR	HR	R	R	HR	HR	—	—	—	—	2	106	—	—
DK 142	DEKALB Genetics	4	HR	R	HR	HR	R	R	HR	3	109	—	—	—	—	—	—
Empire	Brunner Seed	2	HR	HR	HR	HR	R	—	—	3	107	—	—	—	—	—	—
GH 797	Golden Harvest	3	HR	HR	HR	HR	HR	—	—	3	112	—	—	—	—	—	—
Gold Plus	MBS Inc.	4	HR	HR	HR	R	HR	HR	HR	3	109	—	—	—	—	—	—
HayMaker II	Kussmaul Seeds	4	HR	HR	HR	HR	R	R	—	4	104	—	—	—	—	—	—
Imperial	Top Farm Hybrids	3	HR	HR	HR	HR	R	MR	HR	—	—	3	94	—	—	—	—
Innovator +Z	America's Alfalfa ¹	3	HR	HR	HR	HR	HR	MR	R	—	—	—	—	2	111	—	—
Interceptor	AgriPro	3	HR	HR	HR	HR	R	—	—	2	104	—	—	—	—	—	—
Jade II	NC+	4	HR	R	HR	HR	R	—	R	4	131	—	—	—	—	—	—
Magnum V	Dairyland ²	—	—	—	—	—	—	—	—	3	111	—	—	—	—	—	—
9429	L.G. Seeds Inc.	—	—	—	—	—	—	—	—	2	109	—	—	—	—	—	—
Paramount	Wyffels Hybrids	3	HR	HR	HR	HR	R	MR	HR	4	110	—	—	—	—	—	—
Prism II	Research Seeds	3	HR	HR	HR	HR	R	—	HR	4	108	—	—	—	—	—	—
Synergy	Crows Hybrids	3	HR	HR	HR	HR	R	—	MR	4	117	—	—	—	—	—	—
Target II Plus	Producers Hybrids	3	HR	R	HR	HR	R	MR	R	3	111	—	—	—	—	—	—
Total +Z	America's Alfalfa ¹	3	HR	HR	HR	HR	HR	MR	R	4	107	—	—	2	112	—	—
WL324	Bellamy/Norco	3	HR	HR	HR	HR	R	R	HR	3	116	—	—	—	—	—	—

¹America's Alfalfa — Nebraska distributors: Jirson Agri Chemical/Arrow Seed/Kaup Seed/L.G. Seeds.

²Dairyland Seed Co. — Nebraska distributors: United Seeds/Holdrege Seed/Hergert Milling.

³Plains Alfalfa Association — Arrow Seed/Miller Seed/Ottlie Seed/Sharp Bros. Seed Co.

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

<i>Originator or Distributor</i>	<i>Address</i>	<i>City, State, Zip</i>	<i>Phone #</i>
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
Allied Seed Cooperative	1917 E. Fargo	Nampa, ID 83687	800-624-8904
America's Alfalfa	6700 Antioch	Shawnee Mission, KS 66201	800-873-2532
Arrow Seed Co. ^{1,3}	P.O. Box 722, 126 North Tenth	Broken Bow, NE 68822	800-622-4727
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
Croplan Genetics	P.O. Box 64089	St. Paul, MN 55164-0089	800-232-3639
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	McCordsville, IN 46055	888-895-7333
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)	8057 Felton Rd.	Prophetstown, IL 61277-9363	815-537-5388
Hergert Milling ²	P.O. Box 240, 1415 Ave. B	Scottsbluff, NE 69361	308-632-2315
Hoegemeyer Hybrids	Rt. 2, Box 126	Hooper, NE 68031	800-245-4631
Holdrege Seed & Farm Supply ²	West Hwy. 6 & 34, P.O. Box 530	Holdrege, NE 68949	308-995-4465
Hoffman Seeds, Inc.	144 Main Street	Landisville, PA 17538-1297	717-898-2261
HYPerformer Seed Co.	Hwy. 1 Crop Row	Memphis, TN 38120	901-756-1771
Jirdon Agri Chemicals ¹	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 ¹	1101 S. Beemer St.	West Point, NE 68788	402-372-5588
Kaystar Seeds	P.O. Box 947	Huron, SD 57350	605-352-8791
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
Kussmaul Seeds	9020 Hwy. 18	Mt. Hope, WI 53816	608-988-4568
L. Herried Seed	925 Dexter, P.O. Box 216	Prescott, WI 54021	800-637-2887
L.G. Seeds Inc. ¹	P.O. Box 88	Tekamah, NE 68061	800-752-6574
Lynks Seeds	P.O. Box 637	Marshalltown, IA 50158	800-798-2676
MBS Inc.	225 West 1st Street	Story City, IA 52101	515-733-5274
Miller Seed & Supply ³	P.O. Box 587	York, NE 68467	402-362-5516
Mycogen Seeds	1340 Corporate Center Curve	St. Paul, MN 55121-1428	800-692-6436
NC+ Hybrids	P.O. 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
Ottile Seed ³	1462 Sanford Ave.	Marshalltown, IA 50158	800-798-6884
PGI/MBS	225 West 1st Street	Story City, IA 50248	800-247-3967
Peterson Seed Co., Inc.	P.O. Box 346	Savage, MN 55378	800-328-5898
Pfister Hybrids	187 N. Fayette	El Paso, IL 61738	309-527-6000
Pioneer Hi-Bred Intl., Inc.	210 Gateway North, P.O. Box 5307	Lincoln, NE 68505	800-228-4050
Producers Hybrids	Rt. #1, Box C	Battle Creek, NE 68715	402-675-2975
Research Seeds	P.O. 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
Top Farm Hybrids	P.O. Box 850	Cokato, MN 55321	800-782-4416
Sharp Bros. Seed Co.	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
United Seeds ²	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
Wyffels Hybrids, Inc.	P.O. Box 246	Atkinson, IL 61235	309-936-7833