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## EC02-153 Selecting Alfalfa Varieties for Nebraska 2002

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# Selecting Alfalfa Varieties for Nebraska 2002

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**Yield potential, pest resistance and seed price should be considered when selecting alfalfa varieties in Nebraska.**

The most important variety decision 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 *Tables I* and *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 *Tables I* and *II* to identify high yield varieties. Then select from this list those varieties with desirable pest resistance. Finally, compare seed price. Use *Table III* to identify sources of seed.

## **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 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. 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 have not caused severe problems in Nebraska.

Varieties listed in *Tables I* and *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**

*Table I* lists varieties that have been tested in Nebraska with commercial seed for two or more years since 1997 and marketed in the state. 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.

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**Table I. Characteristics and relative yields (percent) of alfalfa varieties in selected Nebraska tests, 1982-2001.**

Variety	Originator or Distributor	WS	FD	Pest Resistance							Saunders County Irrigation		Dixon County Dryland		Dawson County Sub-irrigation		Panhandle Irrigation	
				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	4	107	—	—	—	—	2	109
Abound	Asgrow	2.2	3	HR	HR	HR	HR	HR	HR	HR	2	105	—	—	—	—	—	—
ABT 350	Allied Seed	2.8	3	HR	HR	HR	HR	HR	R	R	2	108	—	—	—	—	—	—
ABT 400 SCL	W-L Research	—	4	HR	HR	HR	HR	HR	—	HR	3	103	—	—	—	—	—	—
ACE	UAP Seeds	3.1	4	HR	HR	HR	HR	R	MR	R	6	104	3	94	—	—	—	—
Achieva	Allied Seed	—	3	R	HR	HR	HR	R	R	R	4	97	—	—	—	—	2	105
Abilene +Z	America's Alfalfa <sup>1</sup>	—	—	—	—	—	—	—	—	—	—	—	—	—	2	103	—	—
Affinity+Z	America's Alfalfa <sup>1</sup>	—	4	HR	HR	HR	HR	HR	—	R	3	107	3	106	2	105	—	—
Alfagraze	America's Alfalfa <sup>1</sup>	—	2	MR	MR	LR	R	—	S	R	2	102	—	—	—	—	—	—
AlfaStar	Kaystar Seeds	—	4	HR	HR	HR	HR	R	R	HR	6	103	—	—	—	—	—	—
Alpha 2001	Great Lakes Hybrids	—	4	HR	HR	HR	HR	HR	R	R	4	102	2	101	—	—	—	—
AmeriStand 302 +Z	America's Alfalfa <sup>1</sup>	—	—	—	—	—	—	—	—	—	2	99	—	—	—	—	—	—
AmeriGraze 401+Z	America's Alfalfa <sup>1</sup>	—	4	HR	HR	HR	HR	HR	—	R	6	104	—	—	—	—	4	109
Aspen	Superior Hybrids	3.2	4	HR	HR	HR	HR	R	—	HR	4	104	—	—	—	—	—	—
Asset	Allied Seed	—	4	HR	R	HR	R	R	R	R	8	105	2	104	2	113	2	112
Avalanche +Z	America's Alfalfa <sup>1</sup>	2.1	2	HR	HR	HR	HR	HR	—	R	—	—	—	—	2	102	4	112
Awesome	Bellamy	—	4	HR	HR	HR	HR	HR	—	R	2	101	—	—	—	—	—	—
Baker	Public	—	2	HR	LR	S	R	S	HR	HR	43	94	18	104	7	99	16	98
Baralfa 32 IQ	Barenburg	2.9	3	—	—	—	—	—	—	—	3	97	—	—	—	—	—	—
Bighorn	Cargill	3.1	4	HR	HR	HR	HR	R	R	R	7	105	3	108	—	—	2	111
Blazer XL	Sharp Bros. Seed	—	3	R	HR	HR	HR	R	HR	R	—	—	—	—	—	—	2	101
Choice	FFR Coop.	3.2	4	HR	R	HR	R	HR	R	MR	4	104	—	—	—	—	—	—
Columbia 2000	Allied Seed	3.0	4	HR	LR	LR	HR	HR	LR	HR	3	104	—	—	—	—	—	—
Complete	Arrow/Fontanelle	2.7	3	HR	HR	HR	HR	HR	—	R	7	104	3	104	—	—	2	110
Crystal	PGI/MBS	—	4	HR	R	HR	HR	R	LR	R	11	109	—	—	—	—	—	—
Dart	AgriPro	3.2	3	HR	R	HR	HR	R	—	—	14	110	5	101	4	109	4	113
Dawson	Public	—	2	R	S	S	R	S	R	R	52	92	18	90	11	104	16	92
Demand	AgriPro	—	3	HR	HR	HR	HR	HR	MR	R	4	104	—	—	2	101	2	111
Depend +EV	AgriPro	—	4	HR	HR	HR	HR	HR	MR	R	7	107	5	107	—	—	2	113
DK 122	DEKALB Genetics	—	2	HR	HR	HR	R	R	MR	R	—	—	—	—	—	—	2	110
DK 127	DEKALB Genetics	2.7	3	HR	HR	HR	R	R	HR	HR	4	104	2	104	2	106	2	110
DK 134	DEKALB Genetics	2.6	3	HR	HR	HR	HR	HR	—	R	2	104	—	—	2	107	2	114
DK 140	DEKALB Genetics	2.6	4	HR	HR	HR	HR	R	HR	R	5	109	3	107	2	105	—	—
DK 141	DEKALB Genetics	3.5	4	HR	HR	HR	HR	HR	R	R	6	102	3	103	—	—	—	—
DK 142	DEKALB Genetics	2.9	4	HR	R	HR	HR	R	R	HR	8	102	3	112	2	109	2	108
DK 143	DEKALB Genetics	—	—	—	—	—	—	—	—	—	3	103	—	—	—	—	—	—
Dominator	AgriPro	—	4	HR	HR	HR	HR	R	—	R	15	108	8	103	—	—	2	109
Emperor	America's Alfalfa <sup>1</sup>	2.7	4	HR	HR	HR	HR	HR	MR	—	5	101	—	—	—	—	—	—
Enhancer	Arrow Seed	2.5	4	HR	R	HR	HR	R	R	—	10	111	2	112	2	104	—	—
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	—	—	2	109
5312	Pioneer	2.7	3	HR	HR	HR	HR	HR	HR	HR	12	108	5	107	2	110	4	114
53V08	Pioneer	—	3	HR	HR	HR	HR	HR	R	HR	6	103	1	105	2	101	2	118
5347 LH	Pioneer	—	3	HR	HR	HR	HR	R	MR	HR	3	101	3	103	—	—	—	—
54H69	Pioneer	—	4	HR	HR	HR	HR	R	MR	R	2	106	—	—	—	—	—	—

54Q53	Pioneer	—	4	HR	R	HR	R	HR	MR	MR	6	102	1	98	2	99	2	110
Feast	America's Alfalfa <sup>1</sup>	—	—	—	—	—	—	—	—	—	—	—	3	106	—	—	—	—
Feast +EV	America's Alfalfa <sup>1</sup>	2.2	3	HR	R	HR	HR	HR	—	MR	4	96	1	109	2	104	2	117
Flagship 75	Fontanelle	—	2	HR	R	HR	HR	R	—	MR	4	96	—	—	2	100	2	109
FQ 314	Cargill	2.4	3	HR	HR	HR	HR	HR	—	R	3	101	—	—	2	97	2	110
FQ 315	Cargill	—	3	HR	HR	HR	HR	R	HR	R	2	105	—	—	2	103	—	—
Genesis	Pfister Hybrids	—	3	HR	HR	HR	HR	R	—	HR	4	107	3	92	—	—	—	—
Geneva	Syngenta Seeds	2.8	4	HR	HR	HR	HR	HR	R	HR	5	102	—	—	2	107	—	—
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	7	108	—	—	2	109	2	107
Gold Plus	MBS	—	4	HR	R	HR	R	HR	R	HR	3	98	—	—	—	—	2	107
Good as Gold	Hoegemeyer Hybrids	—	4	HR	R	HR	HR	R	R	HR	4	114	2	103	2	112	2	107
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	8	100	2	92	—	—	—	—
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	6	104	3	94	—	—	—	—
Innovator +Z	America's Alfalfa <sup>1</sup>	2.2	3	HR	HR	HR	HR	HR	MR	R	4	106	2	102	2	106	2	113
Jade II	NC+ Hybrids	—	4	HR	R	HR	HR	R	—	R	3	107	3	112	—	—	2	112
LegenDairy	Cenex/Land O' Lakes	—	2	HR	HR	HR	HR	HR	HR	R	4	100	—	—	2	100	—	—
LegenDairy 2.0	Cenex/Land O' Lakes	2.8	3	HR	HR	HR	HR	R	R	HR	4	102	—	—	—	—	—	—
MagnaGraze	Dairyland <sup>2</sup>	—	3	HR	R	HR	HR	R	R	—	4	110	—	—	2	104	2	112
Magnum III	Dairyland <sup>2</sup>	2.0	4	R	MR	R	R	MR	MR	R	16	114	4	109	4	119	6	113
Magnum IV	Dairyland <sup>2</sup>	—	4	HR	R	HR	HR	R	MR	—	8	106	—	—	2	105	2	110
Magnum V	Dairyland <sup>2</sup>	3.1	4	HR	R	HR	HR	R	R	R	5	103	—	—	2	103	2	117
MultiQueen	Miller Seed	—	4	HR	HR	HR	HR	R	R	HR	4	106	—	—	—	—	—	—
Paramount	Wyffels Hybrids	—	3	HR	HR	HR	HR	R	MR	HR	—	—	2	95	—	—	2	102
Pasture +	MBS	2.6	3	—	—	—	—	—	—	—	3	104	—	—	—	—	—	—
Perry	Public	—	3	R	LR	MR	R	S	MR	R	52	99	18	107	11	106	16	106
Persist	Kaltenberg	3.6	4	HR	R	HR	HR	R	R	R	4	108	—	—	2	112	—	—
Prism II	Research Seeds	—	3	HR	HR	HR	HR	R	—	HR	7	107	—	—	—	—	—	—
Pristine	Doebler's Hybrids	2.0	4	HR	HR	HR	HR	R	R	R	3	98	—	—	—	—	2	113
Pro Gro	MBS	3.0	4	—	—	—	—	—	—	—	3	105	—	—	—	—	2	122
Pro Gro 424	Casterline	—	4	HR	R	HR	HR	R	R	R	5	125	—	—	2	102	—	—
Rainier	Novartis Seeds	2.0	3	HR	HR	HR	HR	R	HR	HR	—	—	3	111	—	—	2	108
Rebound 4.2	Croplan Genetics	—	4	HR	HR	HR	HR	HR	R	R	—	—	—	—	2	102	—	—
Renegade	Geertson Seed Co.	—	3	R	—	R	MR	LR	R	R	2	110	—	—	—	—	2	109
Reward	Arrow Seed/Drussel Seed	—	4	HR	R	HR	HR	R	R	HR	10	109	2	102	2	111	2	108
Rhino	Geertson Seed Co.	—	3	HR	R	R	R	R	—	HR	4	107	3	104	2	100	2	109
Riley	Public	—	4	HR	MR	S	S	LR	HR	HR	51	100	17	101	11	104	16	105
Rushmore	Novartis Seeds	3.2	4	HR	HR	HR	HR	R	HR	R	4	106	—	—	2	111	2	106
SafeGuard	Allied Seed	—	—	—	—	—	—	—	—	—	3	99	—	—	—	—	—	—
Samurai	America's Alfalfa <sup>1</sup>	—	3	HR	HR	HR	HR	R	MR	R	2	105	—	—	—	—	—	—
Sierra	NC+ Hybrids	—	3	HR	R	HR	HR	R	R	—	—	—	—	—	—	—	2	103
Spartan	Kinder/Allied	—	3	HR	HR	HR	HR	R	R	R	4	98	2	96	—	—	—	—
Spirit	Fontanelle	2.8	3	HR	R	HR	HR	R	MR	R	4	112	—	—	—	—	2	109
Spur	Allied Seed	—	4	HR	HR	HR	HR	R	R	HR	3	107	3	100	—	—	—	—
Sterling	Cargill	—	2	HR	HR	HR	HR	R	R	R	4	106	2	103	2	107	—	—
Sure	Sharp Bros. Seed	—	3	HR	HR	R	HR	R	LR	HR	8	110	—	—	2	103	4	109
Synergy	Peterson Seed	—	3	HR	HR	HR	HR	R	—	MR	3	104	—	—	—	—	—	—

620	Garst	2.2	2	HR	HR	HR	HR	R	—	MR	—	—	3	103	—	—	2	110
630	Garst	—	4	HR	MR	R	R	MR	MR	R	20	109	6	104	6	111	8	110
631	Garst	3.6	4	HR	R	HR	HR	R	R	HR	15	111	6	105	4	103	4	107
645	Garst	2.7	3	HR	HR	HR	R	R	MR	R	13	108	5	97	4	106	4	104
Target II	Producers Hybrids	—	4	HR	R	R	R	R	R	—	8	106	—	—	4	114	—	—
Target II Plus	Producers Hybrids	3.0	3	HR	R	HR	HR	R	MR	R	4	102	1	108	2	108	2	102
TMF 421	Mycogen Seeds	2.0	3	HR	HR	HR	HR	HR	R	HR	—	—	—	—	—	—	2	108
TMF 4464	Mycogen Seeds	—	4	HR	HR	HR	HR	HR	—	R	—	—	—	—	2	107	—	—
TMF Generation	Mycogen Seeds	3.0	4	HR	HR	HR	HR	HR	—	R	4	101	4	106	—	—	—	—
TMF Multiplier II	Mycogen Seeds	2.0	3	HR	HR	HR	HR	HR	—	HR	4	103	3	101	2	103	2	107
Total +Z	America's Alfalfa <sup>1</sup>	—	3	HR	HR	HR	HR	HR	MR	R	—	—	2	95	—	—	—	—
Trump	Ottlie Seeds	—	3	HR	HR	HR	HR	R	—	R	3	105	—	—	2	102	—	—
3452 ML	Garst	—	3	HR	HR	HR	HR	R	—	R	12	108	2	105	2	107	—	—
Vernal	Public	1.9	2	R	S	S	MR	S	—	—	52	94	18	92	11	102	16	90
Venture	Stauffer Seeds	—	4	—	HR	R	R	R	—	HR	7	106	—	—	2	108	—	—
Viking I	Novartis Seeds	3.0	2	R	R	R	HR	HR	—	MR	8	108	5	97	2	109	2	113
Voyager II	Bio-Plant Research	3.0	4	HR	R	HR	HR	R	R	HR	4	109	—	—	4	112	—	—
Wetland	Producers Hybrids	2.6	3	R	R	HR	R	MR	MR	—	5	109	—	—	—	—	—	—
WL225	Bellamy	—	2	HR	MR	HR	HR	R	R	R	4	108	2	104	—	—	4	105
WL232 HQ	Bellamy	2.7	2	HR	HR	HR	HR	HR	R	R	3	102	—	—	—	—	2	109
WL252 HQ	Bellamy	—	2	HR	HR	HR	HR	R	MR	R	4	104	2	99	—	—	—	—
WL317	Bellamy	—	3	HR	R	HR	HR	R	R	HR	5	109	2	101	4	110	2	110
WL320	Bellamy	—	4	R	MR	R	R	MR	R	MR	10	108	2	101	2	106	—	—
WL322 HQ	Bellamy	—	4	HR	MR	R	HR	R	HR	HR	9	106	3	98	2	100	—	—
WL323	Bellamy	—	4	HR	HR	HR	HR	R	MR	R	8	105	3	100	2	104	—	—
WL324	Bellamy	2.0	3	HR	HR	HR	HR	R	R	HR	3	110	3	110	—	—	2	105
WL325 HQ	Bellamy	3.0	3	HR	HR	HR	HR	R	R	R	7	102	3	110	2	104	2	108
Wrangler	Public	—	2	R	LR	HR	R	LR	HR	HR	52	102	18	101	11	102	16	101
Yielder	America's Alfalfa <sup>1</sup>	—	3	HR	R	HR	HR	HR	—	R	2	104	—	—	2	98	—	—

<sup>1</sup>America's Alfalfa — Nebraska distributors: Jirton Agri Chemical/Arrow Seed/Kaup Seed/L.G. Seeds.

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

WS = Winter survival index: Based on a scale of 1 to 6. A rating of 1 indicates superior winter survival while a rating of 6 means no winter survival.

FD = Fall dormancy: Based on a scale of 2 to 10. Low fall dormancy ratings indicate varieties have slower fall regrowth. Varieties with faster fall regrowth have higher dormancy ratings.

#### Pest Resistance Ratings

Bw	Bacterial Wilt	% Resistant Plants	Resistance Class
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)
Pa	Pea Aphid	51 + %	High Resistance (HR)

S/Y = Station years; % = Relative yield compared to the average yield of Vernal and Wrangler; blank spaces (—) indicate the variety is susceptible or has not been adequately tested.

Table II. Characteristics and relative yields (percent) of alfalfa varieties using experimental generation seed in selected Nebraska tests, 1993-2001. 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	WS	FD	Pest Resistance							Saunders County Irrigation		Dixon County Dryland		Dawson County Sub—irrigation		Panhandle Irrigation	
				Bw	An	Prr	Fw	Vw	Saa	Pa	S/Y	%	S/Y	%	S/Y	%	S/Y	%
Abundance	Brett-Young	3.4	4	HR	R	HR	HR	MR	R	R	4	110	—	—	—	—	—	—
Excel	Dairyland <sup>2</sup>	—	—	—	—	—	—	—	—	—	3	104	—	—	—	—	—	—
53V63	Pioneer	2.7	3	HR	HR	HR	HR	HR	MR	R	3	98	—	—	—	—	—	—
GH 700	Golden Harvest	—	4	HR	HR	HR	HR	HR	R	HR	2	106	—	—	—	—	—	—
GH 750	Golden Harvest	—	4	HR	HR	HR	HR	HR	R	R	3	106	—	—	—	—	2	116
Goldleaf	Bio-Plant Research	3.1	3	HR	R	HR	HR	R	—	R	3	105	—	—	—	—	—	—
Gold Plus	MBS Inc.	—	4	HR	HR	HR	R	HR	HR	HR	3	109	—	—	—	—	—	—
Imperial	Top Farm Hybrids	—	3	HR	HR	HR	HR	R	MR	HR	—	—	3	94	—	—	—	—
Paramount	Wyffels Hybrids	—	3	HR	HR	HR	HR	R	MR	HR	4	110	—	—	—	—	—	—
Prolific	Dairyland <sup>2</sup>	2.9	3	HR	R	HR	HR	R	—	R	—	—	3	115	—	—	—	—
Perfect	Grassland Central	—	—	—	—	—	—	—	—	—	3	99	—	—	—	—	—	—
Radiant	AMPAC Seed	—	4	HR	HR	HR	HR	HR	R	R	3	110	—	—	—	—	—	—
6410	Garst	—	4	HR	HR	HR	HR	HR	R	R	3	103	—	—	—	—	—	—
6420	Garst	3.0	4	HR	—	HR	HR	R	R	R	3	101	—	—	—	—	—	—
WL 342	W-L Research	—	—	—	—	—	—	—	—	—	2	103	—	—	—	—	—	—
WL 327	Bellamy	3.0	4	HR	HR	HR	HR	R	—	R	3	103	—	—	—	—	—	—

<sup>1</sup>America's Alfalfa — Nebraska distributors: Jirdon Agri Chemical/Arrow Seed/Kaup Seed/L.G. Seeds.

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

WS = Winter survival index: Based on a scale of 1 to 6. A rating of 1 indicates superior winter survival while a rating of 6 means no winter survival.

FD = Fall dormancy: Based on a scale of 2 to 10. Low fall dormancy ratings indicate varieties have slower fall regrowth. Varieties with faster fall regrowth have higher dormancy ratings.

#### Pest Resistance Ratings

Bw	Bacterial Wilt	% Resistant Plants	Resistance Class
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)
Pa	Pea Aphid	51 + %	High Resistance (HR)

S/Y = Station years; % = Relative yield compared to the average yield of Vernal and Wrangler; blank spaces (—) indicate the variety is susceptible or has not been adequately tested.

**Table III. Seed sources.**

<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
AgVenture	P.O. Box 29	Kentland, IN 47951	888-999-0859
Allied Seed Cooperative	P.O. Box 945	Angola, IN 46703	800-813-5025
America's Alfalfa	6700 Antioch	Shawnee Mission, KS 66201	800-873-2532
AMPAC Seed Co.	P.O. Box 318	Tangent, OR 97389	541-928-1651
Arrow Seed Co. <sup>1</sup>	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.	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
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
Gutwein Seed (Larry DeNeve)	8057 Felton Rd.	Prophetstown, IL 61277-9363	815-537-5388
Hergert Milling <sup>2</sup>	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 <sup>2</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>1</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>1</sup>	1101 S. Beemer St.	West Point, NE 68788	402-372-5588
Kaystar Seeds	P.O. Box 947	Huron, SD 57350	605-352-8791
Kinder Seed	P.O. Box 398	Buffalo, NY 14225	716-891-8955
Legend Seeds	P.O. Box 241	DeSmet, SD 57231	605-854-3346
L.G. Seeds Inc. <sup>1</sup>	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	Sory City, IA 52101	515-733-5274
Miller Seed & Supply	P.O. Box 587	York, NE 68467	402-362-5516
Monsanto	5608 83rd St.	Lubbock, TX 79424	800-798-7993
Mycogen Seeds	1340 Corporate Center Curve	St. Paul, MN 55121-1428	800-692-6436
NC+ Hybrids	Box 4408	Lincoln, NE 68504	402-467-2517
Ottillie Seed	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	Elpaso, 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	Box 1393	St. Joseph, MO 64502	800-821-7666
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
Syngenta Seeds	5300 Katrine Ave.	Downers Grove, IL 60515	800-454-8159
UAP Seeds	P.O. Box 1289	Greely, CO 80632	970-356-4400
United Seeds <sup>2</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
W-L Research	P.O. Box 346	Savage, MN 55378	800-328-5898
Wyffels Hybrids, Inc.	P.O. Box 246	Atkinson, IL 61235	309-936-7833

<sup>1</sup>America's Alfalfa — Nebraska distributors: Jirdon Agri Chemical/Arrow Seed/Kaup Seed/L.G. Seeds.<sup>2</sup>Dairyland Seed Co. — Nebraska distributors: United Seeds/Holdrege Seed/Hergert Milling.