

University of Nebraska - Lincoln

DigitalCommons@University of Nebraska - Lincoln

Historical Materials from University of
Nebraska-Lincoln Extension

Extension

2003

EC03-153 Selecting Alfalfa Varieties for Nebraska

Bruce Anderson

University of Nebraska - Lincoln, banderson1@unl.edu

Michael Trammell

University of Nebraska - Lincoln

Charles A. Shapiro

University of Nebraska - Lincoln, cshapiro1@unl.edu

David D. Baltensperger

University of Nebraska-Lincoln, dbaltensperger@tamu.edu

Follow this and additional works at: <https://digitalcommons.unl.edu/extensionhist>



Part of the [Agriculture Commons](#), and the [Curriculum and Instruction Commons](#)

Anderson, Bruce; Trammell, Michael; Shapiro, Charles A.; and Baltensperger, David D., "EC03-153 Selecting Alfalfa Varieties for Nebraska" (2003). *Historical Materials from University of Nebraska-Lincoln Extension*. 1960.

<https://digitalcommons.unl.edu/extensionhist/1960>

This Article is brought to you for free and open access by the Extension at DigitalCommons@University of Nebraska - Lincoln. It has been accepted for inclusion in Historical Materials from University of Nebraska-Lincoln Extension by an authorized administrator of DigitalCommons@University of Nebraska - Lincoln.

Selecting Alfalfa Varieties for Nebraska

Bruce Anderson, Extension Forage Specialist; Michael Trammell, Research Technologist;
Charles Shapiro, Extension Soils Specialist; and David D. Baltensperger, Extension Crop Breeding Specialist

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 ten or more years, whereas varieties of annual crops can be changed annually.

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 and avoid planting common seed 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 and Winter Survival

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 survival (lower WS rating) and faster fall growth (higher dormancy rating).

Resistance to Disease

Bacterial wilt. Historically, this has been the primary disease of alfalfa in Nebraska. All varieties listed in this publication 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 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 1991 and are marketed in the state. Data collected from these varieties since 1982 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 ratings of varieties tested only two years often changes substantially with additional testing.



Issued in furtherance of Cooperative Extension work, Acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture. Elbert C. Dickey, Dean and Director of Cooperative Extension, University of Nebraska, Institute of Agriculture and Natural Resources.

University of Nebraska Cooperative Extension educational programs abide with the non-discrimination policies of the University of Nebraska-Lincoln and the United States Department of Agriculture.



Table I. Characteristics and relative yields (percent) of alfalfa varieties in selected Nebraska tests, 1982–2002.

Variety	Originator or Distributor	Pest Resistance						Dixon County Dryland						Dawson County Sub-irrigation			Panhandle Irrigation %		
		WS	FD	Bw	An	Prr	Fw	Saa	Pa	S/Y	%	S/Y	%	S/Y	%	S/Y	%	S/Y	%
A 30-06	MBS Genetics	—	3	HR	HR	HR	HR	—	MR	2	104	2	106	—	—	—	—	—	—
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	3	102	—	—	—	—	—	—	—	—
ABT 350	Allied Seed	2.8	3	HR	HR	HR	HR	HR	HR	3	107	—	—	—	—	—	—	—	—
ABT 400 SCL	W-L Research	—	4	HR	HR	HR	HR	—	HR	3	103	—	—	—	—	—	—	—	—
Abundance	Brett-Young	3.4	4	HR	R	HR	MR	R	R	2	103	—	—	—	—	—	—	—	—
ACE	UAP Seeds	3.1	4	HR	HR	HR	MR	R	MR	6	104	3	94	—	—	—	—	—	—
Achieva	Allied Seed	—	3	R	HR	HR	R	R	R	4	97	—	—	—	—	2	105	—	—
Abilene +Z	America's Alfalfa ¹	—	5	MR	R	HR	MR	HR	HR	—	—	—	—	3	104	—	—	—	—
Affinity+Z	America's Alfalfa ¹	—	4	HR	HR	HR	HR	—	R	3	107	3	106	3	105	—	—	—	—
Alfagraze	America's Alfalfa ¹	—	2	MR	MR	LR	R	—	S	R	2	102	—	—	—	—	—	—	—
AlfaStar	Shepherd Seeds	—	4	HR	HR	HR	HR	R	R	6	103	—	—	—	—	—	—	—	—
Alpha 2001	Great Lakes Hybrids	—	4	HR	HR	HR	HR	R	R	4	102	2	101	—	—	—	—	—	—
AmeriStand 302 +Z	America's Alfalfa ¹	—	—	—	—	—	—	—	—	3	98	—	—	—	—	—	—	—	—
AmeriGraze 401+Z	America's Alfalfa ¹	—	4	HR	HR	HR	HR	—	R	6	104	—	—	—	—	4	109	—	—
Arapaho	Tri-West	—	3	HR	R	HR	HR	R	—	MR	2	104	—	—	—	—	—	—	—
Arrowhead	Tri-West	—	2	HR	R	HR	HR	R	—	R	2	103	—	—	—	—	—	—	—
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 ¹	2.1	2	HR	HR	HR	HR	HR	—	R	—	—	—	2	102	4	112	—	—
Awesome	Bellamy	—	4	HR	HR	HR	HR	—	R	3	99	—	—	—	—	—	—	—	—
Baker	Public	—	2	HR	LR	S	HR	HR	HR	43	94	19	104	7	99	16	98	—	—
Baralfa 32 IQ	Barenburg	2.9	3	HR	HR	HR	HR	R	HR	3	97	—	—	—	—	—	—	—	—
Bighorn	Cargill	3.1	4	HR	HR	HR	HR	R	HR	7	105	3	108	—	—	—	2	111	—
Blazer XL	Sharp Bros. Seed	—	3	R	HR	HR	HR	HR	HR	—	—	—	—	—	—	2	101	4	112
Choice	FFR Coop.	3.2	4	HR	R	HR	HR	R	MR	4	104	—	—	—	—	—	—	—	—
Columbia 2000	Allied Seed	3.0	4	HR	LR	LR	HR	LR	HR	3	104	—	—	—	—	—	—	—	—
Complete	Arrow/Fontanelle	2.7	3	HR	HR	HR	HR	HR	HR	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	R	R	55	92	19	91	12	103	16	92	—	—
Defense +EV	AgriPro	—	—	—	—	—	—	—	—	—	—	2	95	—	—	—	—	—	—
Demand	AgriPro	—	3	HR	HR	HR	HR	HR	MR	4	104	—	—	2	101	2	111	—	—
Depend +EV	AgriPro	—	4	HR	HR	HR	HR	HR	MR	7	107	5	107	—	—	2	113	—	—
DK 122	DEKALB Genetics	—	2	HR	HR	R	MR	R	MR	—	—	—	—	—	—	2	110	—	—
DK 127	DEKALB Genetics	2.7	3	HR	HR	R	HR	HR	HR	4	104	2	104	3	104	2	110	—	—
DK 134	DEKALB Genetics	2.6	3	HR	HR	HR	HR	R	MR	3	103	—	—	3	104	2	114	—	—
DK 140	DEKALB Genetics	2.6	4	HR	HR	R	HR	R	MR	5	109	3	107	2	105	—	—	—	—
DK 141	DEKALB Genetics	3.5	4	HR	HR	HR	HR	R	MR	6	102	3	103	—	—	—	—	—	—
DK 142	DEKALB Genetics	2.9	4	HR	R	HR	HR	R	HR	9	102	3	112	3	105	2	108	—	—
DK 143	DEKALB Genetics	—	—	—	—	—	—	—	—	3	103	—	—	—	—	—	—	—	—
Dominator	Agipro	—	4	HR	HR	R	HR	R	MR	15	108	8	103	—	—	2	109	—	—
Emperor	America's Alfalfa ¹	2.7	4	HR	HR	R	HR	R	MR	6	100	—	—	—	—	—	—	—	—
Enhancer	Arrow Seed	2.5	4	HR	R	HR	HR	R	MR	11	111	2	112	3	103	—	—	—	—
Envoy	Peterson Seed	—	3	HR	HR	R	HR	R	MR	11	110	—	—	2	102	2	110	—	—
	Envy	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Evolution	Mycogen Seeds	—	—	2	HR	—	R	—	R	—	—	—	—	2	109							
Excel	Dairyland ²	—	—	—	HR	—	HR	—	HR	—	—	—	—	—	—							
5312	Pioneer	2.7	3	3	HR	2	106	2	108	5	107	2	110	4	114							
53V08	Pioneer	—	—	3	HR	2	102	2	114	3	114	3	100	2	118							
5347 LH	Pioneer	—	—	3	HR	3	101	3	103	—	—	—	—	—	—							
54H69	Pioneer	—	—	4	HR	HR	HR	HR	HR	HR	MR	3	105	—	—	—	—	—	—	—	—	
54Q53	Pioneer	—	—	4	HR	HR	HR	HR	HR	HR	MR	8	101	2	109	3	97	2	110	2	110	
Feast +EV	America's Alfalfa ¹	2.2	3	3	HR	HR	HR	HR	HR	HR	—	MR	6	97	2	110	3	102	2	117		
Flagship 75	Fontanelle	—	—	2	HR	HR	HR	HR	HR	HR	—	MR	4	96	—	—	2	100	2	109		
FQ 314	Cargill	2.4	3	3	HR	HR	HR	HR	HR	HR	—	R	3	101	—	—	2	97	2	110		
FQ 315	Cargill	—	—	3	HR	HR	HR	HR	HR	HR	R	3	102	—	—	3	101	—	—	—	—	
Genesis	Pfister Hybrids	—	—	3	HR	HR	HR	HR	HR	HR	—	HR	4	107	3	92	—	—	—	—	—	
Geneva	Syngenta Seeds	2.8	4	4	HR	HR	HR	HR	HR	HR	R	6	102	—	—	3	104	—	—	—	—	
GH 737	Golden Harvest	—	—	4	R	MR	MR	R	R	R	R	2	109	—	—	2	101	2	103	2	103	
GH 755	Golden Harvest	—	—	4	HR	HR	HR	HR	HR	HR	R	10	108	3	99	4	106	2	118	2	118	
GH 766	Golden Harvest	—	—	3	HR	HR	HR	HR	HR	HR	R	7	108	—	—	3	104	2	107	2	107	
Gold Plus	MBS Genetics	—	—	4	HR	HR	HR	HR	HR	HR	R	3	98	—	—	—	—	—	—	2	107	
Good as Gold	Hoegemeyer Hybrids	—	—	4	HR	HR	HR	HR	HR	HR	R	4	114	2	103	2	112	2	107	2	107	
Gourmet Hay	Gutwein Seed	—	—	4	HR	HR	HR	HR	HR	HR	MR	2	114	2	96	—	—	—	—	—	—	
Green Field	Peterson Seed	—	—	3	HR	HR	HR	HR	HR	HR	R	—	HR	8	100	2	92	—	—	—	—	
HYGain	HYPerformer Seed	—	—	4	HR	R	HR	HR	HR	R	R	4	109	—	—	—	—	—	—	—	—	
Imperial	Top Farm Hybrids	—	—	3	HR	HR	HR	HR	HR	MR	HR	7	103	3	94	—	—	—	—	—	—	
Innovator +Z	America's Alfalfa ¹	2.2	3	3	HR	HR	HR	HR	HR	MR	R	4	106	2	102	3	105	2	113	2	112	
Jade II	NC+ Hybrids	—	—	4	HR	R	HR	HR	HR	R	—	R	4	107	3	112	—	—	2	100	—	—
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	HR	HR	R	R	4	102	—	—	—	—	—	—	—	—	
Lightning II	Preferred Seed	—	—	4	HR	HR	HR	HR	HR	HR	—	—	2	97	—	—	—	—	—	—	—	
MagnaGraze	Dairyland ²	—	—	3	HR	R	MR	R	R	MR	MR	4	110	—	—	2	104	2	112	6	113	
Magnum III	Dairyland ²	2.0	4	R	MR	R	MR	R	R	MR	R	16	114	4	109	4	119	6	113	2	110	
Magnum IV	Dairyland ²	—	—	4	HR	R	HR	HR	HR	MR	R	—	8	106	—	—	2	105	2	110	—	—
Magnum V	Dairyland ²	3.1	4	HR	R	HR	HR	HR	R	R	R	6	103	—	—	3	103	2	117	—	—	
Multipier III	Mycogen	2.8	3	HR	HR	HR	HR	HR	R	R	R	—	—	2	108	—	—	—	—	—	—	
MultiQueen	Miller Seed	—	—	4	HR	HR	HR	HR	HR	R	R	5	104	—	—	2	95	—	—	—	—	
Paramount	Wyffels Hybrids	—	—	3	HR	HR	HR	HR	HR	R	MR	—	—	3	104	—	—	—	—	—	—	
Pasture +	MBS	2.6	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Perry	Public	—	—	3	R	LR	MR	R	S	MR	R	55	99	19	107	12	105	16	106	—	—	
Persist	Kaltenberg	3.6	4	HR	R	HR	HR	HR	R	R	R	4	108	—	—	2	112	—	—	—	—	
Prism II	Research Seeds	—	—	3	HR	HR	HR	HR	HR	R	—	HR	7	107	—	—	—	—	—	—	—	
Pristine	Dosblier's Hybrids	2.0	4	HR	HR	HR	HR	HR	R	R	R	3	98	—	—	—	—	—	2	113	—	
Pro Gro	MBS Genetics	3.0	4	HR	R	HR	HR	HR	R	R	R	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	MR	S	S	LR	R	—	HR	4	107	3	104	3	100	2	109	2	108	
Rebound 4.2	Cropland Genetics	—	—	4	HR	HR	HR	HR	HR	R	R	1	98	—	—	3	101	—	—	—	—	
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	R	10	109	2	102	2	111	2	108	—	—	
Rhino	Geertson Seed Co.	—	—	3	HR	R	R	R	R	—	HR	4	107	3	104	3	100	2	109	2	108	
Riley	Public	—	—	4	HR	HR	HR	HR	HR	R	R	52	100	17	101	12	103	16	105	—	—	
Ripin	Gooding Seed	—	—	4	HR	R	HR	HR	R	R	R	2	102	—	—	—	—	—	—	—	—	
Rushmore	Novartis Seeds	3.2	4	HR	HR	HR	HR	HR	R	R	R	4	106	—	—	2	111	2	106	—	—	
SafeGuard	Allied Seed	—	—	—	—	—	—	—	—	—	—	3	99	—	—	—	—	—	—	—	—	

Samurai	—	3	HR	HR	HR	R	MR	R	3	102	—	—	—	—	—	—	
Sierra	—	3	HR	HR	HR	R	LR	R	8	98	2	96	—	—	—	2	103
Spartan	—	3	HR	HR	HR	R	MR	R	4	112	—	—	—	—	—	—	—
Spirit	2.8	3	HR	HR	HR	R	MR	R	4	112	—	—	—	—	—	—	—
Spur	—	4	HR	HR	HR	R	MR	R	3	107	3	100	—	—	—	—	—
Sterling	Cargill	—	2	HR	HR	R	R	R	4	106	2	103	2	107	—	—	—
Sure	Sharp Bros. Seed	—	3	HR	HR	R	LR	HR	8	110	—	—	2	103	4	109	—
Synergy	Peterson Seed	—	3	HR	HR	R	—	MR	3	104	—	—	—	—	—	—	—
620	Garst	2.2	2	HR	MR	R	—	MR	—	—	3	103	—	—	2	110	—
630	Garst	—	4	HR	MR	R	MR	MR	20	109	6	104	6	111	8	110	—
631	Garst	3.6	4	HR	R	HR	R	HR	15	111	6	105	4	103	4	107	—
645	Garst	2.7	3	HR	HR	R	MR	R	13	108	5	97	4	106	4	104	—
6410	Garst	—	4	HR	HR	HR	HR	R	2	104	—	—	—	—	—	—	—
Target II	Producers Hybrids	—	4	HR	R	R	R	R	8	106	—	—	4	114	—	—	—
Target II Plus	Producers Hybrids	3.0	3	HR	R	HR	R	MR	R	5	101	2	112	3	108	2	102
TMF 421	Mycogen Seeds	2.0	3	HR	HR	HR	HR	R	—	—	—	—	—	—	2	108	—
TMF 4464	Mycogen Seeds	—	4	HR	HR	HR	HR	HR	—	—	—	—	3	104	—	—	—
TMF Generation	Mycogen Seeds	3.0	4	HR	HR	HR	HR	HR	—	—	—	4	106	—	—	—	—
TMF Multiplier II	Mycogen Seeds	2.0	3	HR	HR	HR	HR	HR	—	4	101	3	101	3	102	2	107
Total +Z	America's Alfalfa ¹	—	3	HR	HR	HR	HR	MR	R	—	—	2	95	—	—	—	—
Trophy	Geertson Seed Co.	—	4	R	R	HR	HR	R	—	—	—	2	108	—	—	—	—
Trump	Ottlie Seeds	—	3	HR	HR	HR	HR	R	—	—	5	103	—	—	3	101	—
3452 ML	Garst	—	3	HR	HR	HR	HR	R	—	—	12	108	2	105	2	107	—
USA 4230	United Suppl.	—	4	HR	R	S	MR	R	—	—	2	104	—	—	—	—	—
Vernal	Public	1.9	2	R	R	S	MR	S	—	55	94	19	93	12	101	16	90
Venture	Stauffer Seeds	—	4	—	HR	R	R	HR	—	—	—	2	108	—	—	—	—
Viking I	Novartis Seeds	3.0	2	R	R	HR	HR	R	—	—	5	103	—	—	3	101	—
Voyager II	Bio-Plant Research	3.0	4	HR	R	HR	R	R	—	—	12	108	2	105	2	107	—
Wetland	Producers Hybrids	2.6	3	R	R	R	MR	R	—	2	104	—	—	—	—	—	—
WinterCrown	AMPAC Seed	—	3	HR	R	R	MR	R	—	55	94	19	93	12	101	16	90
WL225	Bellamy	—	2	HR	MR	HR	HR	R	—	HR	7	106	—	—	2	108	—
WL232 HQ	Bellamy	2.7	2	HR	HR	HR	HR	R	—	MR	8	108	5	97	2	109	2
WL252 HQ	Bellamy	—	2	HR	HR	HR	HR	R	—	HR	4	109	—	—	4	112	—
WL317	Bellamy	—	3	HR	R	HR	HR	R	—	MR	6	109	—	—	—	—	—
WL320	Bellamy	—	4	R	MR	R	MR	R	—	—	2	101	—	—	—	—	—
WL322 HQ	Bellamy	—	4	HR	MR	R	HR	R	—	MR	4	108	2	104	—	4	105
WL323	Bellamy	—	4	HR	HR	HR	MR	R	—	MR	3	102	—	—	—	2	109
WL324	Bellamy	2.0	3	HR	HR	HR	HR	R	—	MR	4	104	2	99	—	—	—
WL325 HQ	Bellamy	3.0	3	HR	HR	HR	HR	R	—	MR	5	109	2	101	4	110	2
Wrangler	Public	—	2	R	LR	HR	LR	R	—	MR	10	108	2	101	2	106	—
Yielder	America's Alfalfa ¹	—	3	HR	R	HR	HR	R	—	MR	3	103	—	—	3	98	—

¹America's Alfalfa — Nebraska distributors: Jordon Agri Chemical/Arrow Seed/Kaup Seed/I.G. Seeds.
²Dairyland Seed Co. — Nebraska distributors: United Seeds/Kelliher Seed/Triple T Custom.

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	0.5%	Susceptible (S)
Prr	Phytophthora Root Rot	6-14%	Low Resistance (LR)
Fw	Fusarium Wilt	15-30%	Moderate Resistance (MR)
Vw	Verticillium Wilt	31-50%	Resistant (R)
Saa	Spotted Alfalfa Aphid	51+%	High Resistance (HR)
Pa	Pea Aphid		

SY = 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—2002. 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	Bw	Pest Resistance				Sa	Pa	S/Y	Dixon County Dryland %	Saunders County Irrigation %	Dawson County %	Panhandle Irrigation %
					An	Prr	Fw	Vw							
53V63	Pioneer	2.7	3	HR	HR	HR	HR	MR	R	3	98	—	—	—	—
GH 700	Golden Harvest	—	4	HR	HR	HR	HR	R	HR	2	106	—	—	—	—
GH 750	Golden Harvest	—	4	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 Genetics	—	4	HR	HR	HR	HR	HR	HR	3	109	—	—	—	—
Radiant	AMPAC Seed	—	4	HR	HR	HR	HR	R	R	3	110	—	—	—	—
6420	Garst	3.0	4	HR	—	HR	R	R	R	3	101	—	—	—	—
WL 342	W-L Research	—	4	HR	HR	HR	HR	HR	HR	2	103	—	—	—	—
WL 327	Bellamy	3.0	4	HR	HR	HR	HR	R	—	R	3	103	—	—	—

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.

Bw	Pest Resistance Ratings		
	Bacterial Wilt	% Resistant Plants	Resistance Class
An	Anthracnose	0-5%	Susceptible (S)
Prr	Phytophthora Root Rot	0-5%	Low Resistance (LR)
Fw	Fusarium Wilt	6-14%	Moderate Resistance (MR)
Vw	Verticillium Wilt	15-30%	Resistant (R)
Saa	Spotted Alfalfa Aphid	31-50%	High Resistance (HR)
Pa	Pea Aphid	51 + %	

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.	2369 330th St.	Slater, IA 50244	515-685-5000
AgVenture, Inc.	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	1870 P.O. Box 404	Princeton, IL 61356	800-873-2532
AMPAC Seed Co.	P.O. Box 318	Tangent, OR 97389	800-547-3230
Arrow Seed Co. ¹	P.O. Box 722, 126 North Tenth	Broken Bow, NE 68822	800-622-4727
Barenburg USA	P.O. Box 239	Tangent, OR 97389	800-547-4101
Bellamy Grain Corp.	P.O. Box 246	Cozad, NE 68930-9556	308-784-2666
BioPlant Research	P.O. Box 320	Camp Point, IL 62320	800-593-7708
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 64406	St. Paul, MN 55164-0089	800-851-8810
Crows Hybrids	P.O. Box 306	Milford, IL 60953	815-758-9120
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	10981 8th St.	Fontanelle, NE 68044	402-721-1410
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
The Gooding Seed Co., Inc.	P.O. Box 57	Gooding, ID 83330	208-934-8441
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
Hoegemeyer Hybrids	Rt. 2, Box 126	Hooper, NE 68031	800-245-4631
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
Kelliher Seed and Supply ²	P.O. Box 692	Kearney, NE 68848	308-233-7648
Kinder Seed	P.O. Box 398	Buffalo, NY 14225	716-891-8955
Legend Seeds	P.O. Box 241	DeSmet, SD 57231	800-678-3346
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 Genetics	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	3670 CR 207	Liberty Hill, TX 78642	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
Otilie 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	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
Preferred Seed Co., Inc.	575 Kennedy Rd.	Buffalo, NY 14227	716-895-7333
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
Tri-West, Inc.	P.O. Box 25	Bliss, ID 83314	208-352-1188
Triple T Custom Farms, Inc. ²	110651 Hwy. 92	Mitchell, NE 69357	308-641-2153
Sharp Bros. Seed Co.	101 E. 4th Street	Greeley, CO 80631	970-356-4710
Shepherd Seeds	2936 E. County P.	Beloit, WI 53511	800-383-2676
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	7500 Olson Mem. Hwy.	Golden Valley, MN 55427	612-337-6201
UAP Seeds	P.O. Box 1289	Greely, CO 80632	970-356-4400
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
W-L Research	P.O. Box 8112	Madison, WI 53708	608-240-0630
Wyffels Hybrids, Inc.	P.O. Box 246	Atkinson, IL 61235	309-936-7833

¹America's Alfalfa - Nebraska distributors: Jirdon Agri Chemical/Arrow Seed/Kaup Seed/L.G. Seeds.²Dairyland Seed Co. - Nebraska distributors: United Seeds/Kelliher Seed/Triple T Custom.