



AGRONOMY

- Crops
- Soils
- Climate

The 1998 Iowa Crop Performance Test--Alfalfa

Test Locations and Soils

Central Iowa: Tile-drained, Clarion-Nicollet-Webster soils at the Agronomy and Agricultural Engineering Research Center west of Ames.

Northeastern Iowa: Readlyn, Kenyon and Clyde loam soil at the Northeast Research Farm west of Nashua.

Southern Iowa: Grundy silty clay loam soil at the McNay Memorial Research Farm west of Chariton.

Western Iowa: Monona silt loam soil at the Western Research Farm east of Castana.

Central Iowa (grazing): Downs silt loam soil at the Rhodes Research Farm south of Rhodes.

Fertilization

Annual applications of P and K are made to soil test recommendations. P is applied in early April; K requirements are split for application in early April and after first harvest.

Planting and Harvesting

Plot size = 5 rows, 6" apart, 12' long.
Seeding rate = 18 lb/A.

A flail type harvester was used at all locations.

Established tests were harvested four times in 1998 at the late bud to mid-bloom stage. New tests were harvested thrice.

Weed and Insect Control

Preemergent at planting: Eptam (2 qt/A)
To control potato leafhopper, tests at Ames and Nashua were sprayed twice with Pounce, Dimate, or Lorsban. Other locations were not sprayed.

Weather Conditions

Monthly average temperatures at all locations were at or slightly above normal throughout the year.

Precipitation was above normal in the spring, near normal through early summer, and below normal in late summer, particularly at Nashua. Soil moisture was sufficient to produce good yields throughout the season at all locations, with little drought stress evident.

Yield Results

Yields from tests seeded in 1995, 1996, and 1997 are presented in this report.

Yields are expressed as tons of dry matter per acre. Average yields are calculated over non-establishment years. An LSD (least significant difference) is listed at the bottom of each data column. Differences among varieties that are less than the LSD are not statistically significant at the 5% probability level.

Yields around the state were excellent, with tests ranging from 6-7.5 T/A. Alfalfa growth began early this year, and we began harvesting about one week before normal.

Stand Persistence

Stands throughout the state were uniformly good this year. No winter damage was noted at any location.

Potato Leafhopper Tolerance

Several varieties in the 1997 tests have tolerance to potato leafhopper feeding. All tests through 1997 were managed on a spray as needed basis. Beginning with 1998 trials, which we will begin reporting next year, we will have no-spray tests to test yield of leafhopper tolerant varieties.

Grazing Tolerance Test Results

Grazing tolerance tests were established at Rhodes, 35 miles east of Ames, in

1996. Stands of all varieties were excellent prior to grazing in 1997. Beef cattle continuously grazed the plots from 15 May to 12 September 1997, and from 16 May to 15 September 1998, significantly stressing the plants. Varieties surviving this level of grazing are particularly well adapted to pasturing systems. **However, we strongly recommend that you rotationally graze your pastures for maximum productivity.**

Hay yields were measured in an adjacent test to estimate the productive capacity of these varieties. Several grazing varieties are producing excellent hay yields as well as superior grazing performance. A number of experimental entries in these tests look very promising for future release.

Interpreting the Results

Although these results should be applicable throughout the state, varieties may perform differently in particular environments. Variety test results are most applicable to sites with similar soils and climates. Some factors to consider in selecting varieties are consistency in yield from year to year, pest resistance profile, and persistence. Persistence and winterhardiness are best measured by the yield in the final year of a test (the third year after establishment). Snow cover, ice sheeting, waterlogging, and drought will affect the performance of all varieties. **Proper management is essential for good performance!**

Prepared by Charles Brummer (515) 294-1415, forage breeder and Mark Smith, research associate. This work was supported in part by a grant from the Iowa Crop Improvement Association.

1995 Ames Test Yields (T/A)

Variety	1995	1996	1997	1998	Avg.
5454	3.58	5.98	5.03	7.71	6.24
DK127	3.48	5.62	5.03	7.92	6.19
Enhancer	3.66	5.52	5.12	7.90	6.18
Jade	3.53	5.86	4.68	7.96	6.17
Magnum IV	3.63	5.75	4.85	7.89	6.17
MP 2000	3.70	5.60	4.72	8.16	6.16
Imperial	3.80	5.66	5.10	7.59	6.12
Choice	3.70	5.68	5.05	7.61	6.12
631	3.44	5.62	4.89	7.83	6.11
645	3.59	6.06	4.49	7.77	6.11
Spartan	3.62	6.05	4.86	7.38	6.10
5312	3.64	5.66	4.97	7.59	6.07
Innovator +Z	3.69	5.69	4.82	7.69	6.07
Wintergreen	3.66	5.63	4.89	7.67	6.06
Paramount	3.71	5.94	4.63	7.59	6.05
Defiant	3.48	5.60	5.03	7.30	5.98
Saranac	3.56	5.81	4.80	7.14	5.91
2888	3.51	5.41	4.91	7.40	5.91
Quantum	3.62	5.39	4.66	7.65	5.90
Total +Z	3.58	5.70	4.60	7.40	5.90
Demand	3.78	5.62	5.11	6.94	5.89
Rushmore	3.49	5.46	4.76	7.40	5.88
5246	3.39	5.49	4.99	7.08	5.85
Avalanche +Z	3.64	5.29	5.23	7.00	5.84
ALPHA 2001	3.67	5.42	4.80	7.27	5.83
Magnum III	3.60	5.44	4.59	7.34	5.79
Viking 1	3.67	5.52	4.38	7.21	5.70
Premier Plus	3.63	5.66	4.51	6.92	5.70
Dominator	3.51	5.22	4.69	7.14	5.68
WL 252 HQ	3.58	5.17	4.72	7.06	5.65
Vernal	3.51	5.35	4.57	7.03	5.65
Alfaleaf II	3.44	5.06	4.74	7.03	5.61
Perry	3.46	5.01	4.40	7.14	5.52
Ranger	3.14	5.01	4.40	6.66	5.36
Riley	3.45	5.10	4.35	6.43	5.29
Mean	3.57	5.54	4.78	7.38	5.90
LSD (5%)	0.28	0.54	0.34	0.79	0.34

1996 Castana Test Yields (T/A)*

Variety	1997	1998	Avg.
Spirit	5.19	7.99	6.59
5454	4.88	8.02	6.45
WL 324	4.70	8.12	6.41
Winterstar	4.72	7.96	6.34
630	4.80	7.81	6.31
631	4.74	7.81	6.27
Viking 1	4.62	7.92	6.27
Depend +EV	4.82	7.72	6.27
Synergy	4.68	7.62	6.15
DK133	4.78	7.44	6.11
GH766	4.82	7.35	6.09
Innovator +Z	4.78	7.36	6.07
WL 325 HQ	4.42	7.72	6.07
5312	4.68	7.41	6.05
DK127	4.51	7.56	6.04
Affinity +Z	4.70	7.32	6.01
Vernal	4.60	7.33	5.97
Rainier	4.59	7.30	5.94
2888	4.51	7.35	5.93
Total +Z	4.36	7.41	5.89
Wrangler	4.31	7.41	5.86
Ranger	4.32	6.76	5.54
Mean	4.65	7.53	6.09
LSD (5%)	0.38	0.54	0.29

*No seeding year data was taken.

1996 Ames Test Yields (T/A)*

Variety	1997	1998	Avg.
Complete	5.33	6.36	5.85
WL 325 HQ	5.26	6.36	5.81
Enhancer	5.17	6.38	5.78
Wetland	4.96	6.51	5.74
Voyager II	5.08	6.30	5.69
DK127	5.08	6.18	5.63
620	5.04	6.09	5.56
5312	4.89	6.23	5.56
5454	4.96	6.12	5.54
2555ML	5.02	5.94	5.48
Rainier	4.95	5.86	5.40
2444	4.91	5.89	5.40
Paramount	4.81	5.95	5.38
DK133	4.70	5.99	5.35
Max 329	4.65	6.00	5.33
Alfaleaf II	4.73	5.78	5.26
Rustler II	4.71	5.75	5.23
TMF Multi-plier II	4.71	5.74	5.22
Columbia 2000	4.72	5.70	5.21
Vernal	4.70	5.61	5.15
Mean	4.92	6.04	5.48
LSD (5%)	0.51	0.50	0.18

*No seeding year data was taken.

1996 Nashua Test Yields (T/A)*

Variety	1997	1998	Avg.
Spirit	6.52	7.66	7.09
WL 324	6.47	7.59	7.03
Big Horn	6.61	7.40	7.01
WL 325 HQ	6.57	7.39	6.98
Complete	6.51	7.41	6.96
2555ML	6.49	7.41	6.95
5454	6.22	7.49	6.86
Depend +EV	6.52	7.13	6.82
Rhino	6.19	7.41	6.80
620	6.31	7.28	6.79
A 395	6.33	7.24	6.79
DK127	6.11	7.38	6.75
Innovator +Z	6.15	7.34	6.74
631	5.98	7.50	6.74
BANQUET	6.32	7.11	6.72
2444	6.20	7.22	6.71
5312	6.30	7.03	6.67
2888	6.33	6.99	6.66
Columbia 2000	6.26	6.97	6.62
DK 133	6.19	7.03	6.61
Synergy	6.14	7.03	6.59
Defiant	6.27	6.89	6.58
8498	6.27	6.86	6.57
Ovation	6.15	6.92	6.53
Max 329	6.30	6.76	6.53
RFV-2000	6.15	6.86	6.51
GH 787	6.21	6.77	6.49
Stetson II+	6.09	6.85	6.47
Vernal	6.20	6.72	6.46
TMF Multi-plier II	5.97	6.90	6.44
GH767	6.24	6.62	6.43
LegenDairy 2.0	5.83	7.01	6.42
Saranac	6.29	6.54	6.42
Wrangler	5.84	6.53	6.18
Ranger	5.64	6.23	5.94
Riley	5.65	6.05	5.85
Mean	6.22	7.04	6.63
LSD (5%)	0.53	0.60	0.29

*No seeding year data was taken.

1997 Ames Test Yields (T/A)

Variety	1997	1998
DK140	3.07	7.75
DK142	3.34	7.72
DK127	3.29	7.36
5454	3.23	7.30
5312	3.07	7.30
Jade II	3.27	7.30
DK141	3.35	7.26
AmeriGuard 301	3.08	7.15
Choice	3.39	7.14
Excalibur II	3.33	7.09
Spur	3.11	7.07
631	3.18	7.07
Baralfa 54	3.09	7.04
Innovator +Z	3.50	6.98
5347LH	3.16	6.97
DK143	3.11	6.95
Feast	2.95	6.68
Safeguard	2.89	6.58
Vernal	3.15	6.34
Mean	3.17	7.05
LSD (5%)	0.31	0.50

1997 Nashua Test Yields (T/A)

Variety	1997	1998
DK140	3.22	7.11
TMF Generation	3.06	7.09
Nemesis	3.08	7.02
DK142	2.88	6.99
Spur	2.98	6.98
DK127	3.07	6.95
Rushmore	2.99	6.92
5454	2.86	6.89
DK143	3.03	6.85
DK141	3.11	6.79
Innovator +Z	3.17	6.76
Choice	3.15	6.75
GH767	3.32	6.73
Feast	2.88	6.73
5312	3.01	6.68
Amerigraze 401+Z	3.12	6.66
5347LH	2.93	6.63
GH 787	2.89	6.58
Surpass	3.00	6.53
620	3.05	6.51
Interceptor	2.87	6.48
AmeriGuard 301	2.84	6.47
Vernal	3.17	5.82
Mean	3.02	6.69
LSD (5%)	0.26	0.37



IOWA STATE UNIVERSITY
University Extension

Ames, Iowa

1997 McNay Test Yields (T/A)

Variety	1997	1998
Depend +EV	1.70	7.09
Choice	1.59	7.00
DK140	1.62	6.97
WL 324	1.73	6.97
WL 325 HQ	1.70	6.84
TMF Generation	1.65	6.81
DK127	1.56	6.79
Amerigraze 401+Z	1.57	6.73
Feast	1.57	6.69
DK142	1.48	6.63
620	1.60	6.62
5312	1.50	6.62
Complete	1.33	6.59
5454	1.48	6.51
2444	1.68	6.48
Demand	1.45	6.48
DK 141	1.69	6.47
5347LH	1.61	6.45
Interceptor	1.35	6.39
DK143	1.47	6.37
AmeriGuard 301	1.45	6.23
Innovator +Z	1.69	6.23
645	1.51	6.00
Vernal	1.41	5.80
Mean	1.55	6.58
LSD (5%)	0.25	0.66

1996 McNay Test Yields (T/A)*

Variety	1997	1998	Avg.
5454	5.87	8.30	7.09
WL 323	5.67	7.95	6.81
5312	5.60	8.00	6.80
Rushmore	5.83	7.57	6.70
Innovator +Z	5.74	7.63	6.68
MP 2000	5.85	7.51	6.68
TMF Generation	5.89	7.44	6.67
DK127	6.02	7.30	6.66
Demand	5.70	7.36	6.53
Dominator	5.46	7.30	6.38
2888	5.66	6.83	6.24
WL 252 HQ	5.38	7.00	6.19
Vernal	5.25	6.25	5.75
Riley	4.84	6.28	5.56
Mean	5.68	7.41	6.55
LSD (5%)	0.29	0.54	0.39

*No seeding year data was taken.

1996 Rhodes Test Grazing Tolerance and Yield*

Variety	1997	1998	1997	1998	Avg.
	--% Stand--		-----Hay Yield (T/A)-----		
Xgrazer	70	48	6.67	7.27	6.97
Alfagraze ¹	83	40	5.69	6.63	6.16
Amerigraze 401 +Z	50	32	6.29	7.23	6.76
620	55	32	6.64	7.36	7.00
Cut 'N' graze	62	31	6.16	6.81	6.49
Pasture +	42	24	6.44	7.61	7.03
Apollo ²	44	21	5.54	6.44	5.99
Stampede	33	19	6.65	7.11	6.88
Haygrazer	30	15	6.19	7.01	6.60
Vernal	38	15	6.08	6.61	6.34
5454 ³	.	.	6.16	7.78	6.97
Mean	51	28	6.21	7.19	6.70
LSD(5%)	15	9	0.50	0.68	0.42

*No seeding year data was taken.

¹Alfagraze is the grazing tolerant check variety.

²Apollo is a grazing intolerant check variety.

³5454 was not tested under grazing.

Alfalfa Variety Seed Sources

(see column 1 on last page for reference)

AgriPro Seeds, Inc.	800-373-1741
Albert Lea Seed House	507-373-3161
Allied Seed	800-624-8904
America's Alfalfa	
Horizon Seeds	800-752-6574
Kruger Seed Co.	800-772-2721
LG Seeds	800-728-2259
Merschman Seed Co.	800-848-7333
Strayer Seed Farms, Inc.	800-728-4187
Trelay Seed	800-421-0397
Vigoro Industries, Inc.	515-636-3751
Andrews Seed Co.	541-889-9109
Arrow Seed	308-872-6826
Barenbrug USA	541-926-5801
Bio-Plant Research, Ltd.	217-593-7707
Callahan Seeds	317-896-5551
Cargill Hybrids	612-742-6743
Cenex/Land O'Lakes	800-369-3060
Crow's Hybrids	815-889-4151
Custom Farm Seed	800-659-4307
Dairyland Seed Co.	800-236-0163
Dekalb Genetics Corporation	815-758-9323
Fontanelle Hybrids	800-279-4353
Garst Seed Company	515-685-5000
Geertson Seed Farms	800-843-0390
Golden Harvest/Golden Seed Co., Inc.	800-421-1169
Golden Harvest/J.C. Robinson Seed Co.	800-228-9906
Great Lakes Hybrids, Inc.	800-257-7333
Great Plains Research Co., Inc.	800-874-7945
GROWMARK, Inc. (FS Seeds)	309-557-6403
Interstate/Payco	800-437-4120
L.L. Olds Seed Co.	800-356-7333
Mallard Seed Co.	507-534-2300
MBS, Inc.	800-247-3967
Mycogen Plant Sciences	612-405-5800
NC+ Hybrids	402-467-2517
Novartis Seeds	800-445-0956
Ottile R.O. Seed	800-798-6884
Pioneer Hi-Bred Intl., Inc.	800-331-2939
Renk Iowa	515-587-2719
Rosen's, Inc.	800-798-2000
Seed Mart, Inc.	715-262-4430
Tri-State Seed, Inc.	507-794-3078
Wensman Seed Co.	800-423-9771
Wyffels Hybrids, Inc.	800-369-7833

...and justice for all

The Iowa Cooperative Extension's Service's programs are consistent with pertinent federal and state laws and regulations on nondiscrimination. Many materials can be made available in alternative formats for ADA clients.

Issued in furtherance of Cooperative Extension work, Acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture. Stanley R. Johnson, director, Cooperative Extension Service, Iowa State University of Science and Technology, Ames, IA.

Seed Sources, Fall Dormancy Ratings, and Disease Resistances

Variety	Source		FD Resistance Ratings								
	(1)	(2)	BW	VW	FW	AN	PR	PA	AP	LH	
620	Ga	2	HR	R	HR	HR	HR	MR	R	-	
630	Ga	4	HR	MR	R	MR	R	R	-	-	
631	Ga	4	HR	R	HR	R	HR	HR	MR	-	
645	Ga	3	HR	R	R	HR	HR	R	MR	-	
2444	No	3	HR	R	HR	HR	HR	MR	R	-	
2888	No	3	HR	R	HR	HR	HR	-	R	-	
2555 ML	LL	2	HR	R	HR	HR	HR	HR	R	-	
5246	Pio	3	HR	R	HR	HR	HR	R	MR	-	
5312	Pio	3	HR	HR	HR	HR	HR	HR	R	-	
5347 LH	Pio	3	HR	R	HR	HR	HR	HR	R	-	
5454	Pio	4	R	MR	HR	HR	HR	R	LR	-	
8498	Ma	3	HR	R	HR	HR	HR	HR	R	-	
A 395	MB	3	HR	R	HR	HR	HR	R	R	-	
Affinity +Z	Am	4	HR	HR	HR	HR	HR	R	R	-	
Alfagraze	Am	2	R	-	R	MR	LR	R	-	-	
Alfaleaf II	Ot	4	R	R	HR	HR	HR	-	R	-	
ALPHA 2001	GrL	4	HR	HR	HR	HR	HR	R	R	-	
AmeriGraze 401+Z	Am	4	HR	HR	HR	HR	HR	R	R	-	
AmeriGuard	Am	3	HR	R	HR	HR	HR	R	R	R	
Avalanche +Z	Am	2	HR	HR	HR	HR	HR	R	R	-	
BANQUET	Tr	4	HR	HR	HR	HR	HR	R	-	-	
Baralfa 54	Ba	5	R	R	HR	HR	HR	HR	-	-	
Big Horn	Car	4	HR	R	HR	HR	HR	R	HR	-	
Choice	Gro	4	HR	HR	R	R	HR	MR	R	-	
Columbia 2000	All	2	R	MR	R	MR	MR	MR	MR	-	
Complete	Ar,Fo	3	HR	HR	HR	HR	HR	R	R	-	
Cut 'N' Graze	Agr	3	R	LR	HR	MR	R	R	LR	-	
Defiant	Agr	2	HR	HR	HR	R	HR	R	R	-	
Demand	Agr	3	HR	HR	HR	HR	HR	R	R	-	
Depend +EV	Agr	4	HR	HR	HR	HR	HR	R	R	-	
DK122	De	2	HR	R	R	HR	HR	R	-	-	
DK127	De	3	HR	R	HR	HR	HR	HR	-	-	
DK133	De	4	HR	R	HR	HR	HR	R	R	-	
DK140	De	4	HR	-	R	HR	HR	R	HR	S	
DK141	De	4	HR	HR	HR	HR	HR	R	HR	S	
DK142	De	4	-	-	HR	R	HR	HR	HR	S	
DK143	De	4	HR	R	R	HR	HR	HR	R	S	
Dominator	Agr	4	HR	R	HR	HR	HR	R	R	-	
Enhancer	Ro	4	HR	R	HR	R	HR	-	MR	-	
Excalibur II	All	4	HR	R	HR	HR	HR	-	R	-	
Feast	Agr	3	HR	R	HR	HR	HR	MR	R	-	
GH766	GoJ	3	HR	R	HR	HR	HR	R	R	-	
GH767	GoG	2	HR	R	HR	HR	HR	-	R	-	
GH 787	GoG	3	HR	R	R	HR	HR	R	R	-	
Haygrazer	GrP	4	HR	R	HR	R	R	R	MR	-	
Imperial	Agr	3	HR	R	HR	HR	HR	HR	R	-	
Innovator +Z	Am	3	HR	HR	HR	HR	HR	R	R	-	
Interceptor	Agr	3	HR	R	HR	HR	HR	R	R	R	
Jade	NC	4	HR	R	R	R	HR	-	-	-	
Jade II	NC	4	HR	R	HR	R	HR	R	MR	-	
LegenDairy 2.0	Cen	3	HR	R	HR	HR	HR	HR	R	-	
Magnum III	Da	4	R	MR	R	MR	R	R	LR	-	
Magnum IV	Da	4	HR	R	HR	R	HR	-	MR	-	
Max 329	Se	3	HR	HR	HR	HR	HR	R	R	-	
MP 2000	Cen	3	HR	R	HR	HR	HR	HR	HR	-	
Nemesis	Re	3	R	HR	HR	HR	HR	HR	HR	-	
Ovation	Cal	4	HR	HR	HR	HR	HR	R	R	-	
Paramount	Wy	3	HR	R	HR	HR	HR	HR	HR	-	
Pasture Plus	MB	3	HR	R	HR	R	HR	-	R	-	
Perry	All	3	R	-	-	LR	-	R	-	-	
Premier Plus	Wy	4	HR	HR	HR	HR	HR	HR	LR	-	
Quantum	Re	2	HR	HR	HR	HR	HR	HR	R	-	
Rainier	No	3	HR	R	HR	HR	HR	HR	HR	-	
RFV-2000	Cu	3	HR	R	HR	HR	HR	R	LR	-	
Rhino	Ge	3	HR	R	R	R	R	HR	R	-	

Variety	Source		FD Resistance Ratings								
	(1)	(2)	BW	VW	FW	AN	PR	PA	AP	LH	
Riley	All	4	HR	LR	-	MR	-	HR	-	-	
Rushmore	No	4	HR	R	HR	HR	HR	R	HR	-	
Rustler II	An	4	HR	HR	HR	HR	HR	HR	R	-	
Safeguard	All	3	HR	R	HR	HR	HR	R	R	R	
Saranac	All	4	R	-	R	S	S	-	-	-	
Spartan	All	3	HR	R	HR	HR	HR	R	R	-	
Spirit	MB	3	HR	R	HR	R	HR	R	MR	-	
Spur	Al	4	HR	R	HR	HR	HR	HR	R	-	
Stampede	All	3	HR	R	R	-	HR	-	R	-	
Stetson II+	MB	4	HR	R	HR	R	HR	-	MR	-	
Supercuts	Se	4	HR	HR	HR	HR	HR	R	R	-	
Surpass	Alb,An	3	HR	H	HR	MR	R	-	S	-	
Synergy	Cr	3	HR	R	HR	HR	HR	MR	R	-	
TMF Generation	My	4	HR	HR	HR	HR	HR	R	R	-	
TMF Multi-plier II	My	3	HR	HR	HR	HR	HR	R	R	-	
Total +Z	Am	3	HR	HR	HR	HR	HR	R	R	-	
Vernal	All	2	R	-	MR	S	S	-	-	-	
Viking 1	No	2	R	HR	HR	R	R	MR	-	-	
Voyager II	Bi	4	HR	R	HR	R	HR	HR	MR	-	
WetLand	Bi	3	R	MR	R	R	HR	-	MR	-	
Wintergreen	Car	3	HR	HR	HR	HR	HR	R	R	-	
Winterstar	We	2	HR	HR	HR	HR	HR	R	R	-	
WL 252 HQ	Gro	2	HR	R	HR	HR	HR	R	LR	-	
WL 323	Gro	4	HR	R	HR	HR	HR	R	R	-	
WL 324	Gro	3	HR	R	HR	HR	HR	HR	HR	-	
WL 325 HQ	Gro	3	HR	R	HR	HR	HR	R	R	-	
XGrazer	Car	2	HR	HR	HR	HR	HR	LR	R	-	

(1) Sources are listed on the next page.

(2) Fall dormancy and disease resistance ratings are based on descriptions published by the Certified Alfalfa Seed Council and from Varietal Publications of the Association of Official Seed Certifying Agencies.

Fall Dormancy **Ratings** are based on similarity of a given variety to a check variety, with 1=most fall dormant to 9=non-dormant.

Check Varieties	Dormancy Rating
Norseman, Beaver	1
Vernal, 526	2
Ranger, 5246	3
Saranac, Legend	4
Belmont, Archer	5

Resistance Ratings are based on the percentage of plants in a given variety that are resistant to the pest being evaluated.

Resistance Rating	% Resistant Plant
S, Susceptible	0 - 5
LR, Low Resistance	6 - 14
MR, Moderate Resistance	15 - 30
R, Resistance	31 - 50
HR, High Resistance	>50

BW--Bacterial Wilt	PR--Phytophthora Root Rot
VW--Verticillium Wilt	PA--Pea Aphid
FW--Fusarium Wilt	AP--Aphanomyces Root Rot
AN--Anthracnose	LH--Potato Leaf Hopper