

Relative Resistance to Spotted Alfalfa Aphid Exhibited by Alfalfa Varieties
Grown in Fresno County for Seed Production

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Chemical control of spotted alfalfa aphid in alfalfa seed fields is complicated somewhat by differences in varietal tolerances to this insect. Many experienced observers have noted that it is necessary to protect beneficial insects in alfalfa varieties which are susceptible to SAA. Alfalfa varieties being grown for seed production in Fresno County range in their SAA susceptibility from "Susceptible" to "Resistance." In most cases the severity of SAA infestation can be limited on susceptible varieties if the correct chemical materials are used. The following was compiled from reports furnished by the seed companies who own the varieties or by experience with public varieties.

The relative rating scale and definitions of terms used in this list is as follows in regards to SAA:

- S = Susceptible.
Economic damage will occur in the presence of an insect or disease infestation.
- T = Tolerant.
Economic damage can occur with a high disease or insect infestation. Performance can be satisfactory with a moderate level of infestation.
- R = Resistance.
Economic damage is possible but not likely. In the presence of an insect or disease infestation the performance is equal or essentially equal to the performance in the absence of the infestation.

Information concerning proprietary varieties or numbered materials which are not included in this list can be obtained from representatives of the company owning the variety. There has been no intent on my part to omit any variety, although this list is not complete in all respects. I hope that the information listed here will help you in planning your insect control program for the alfalfa varieties you handle.

PUBLIC VARIETIES

VARIETY	DEVELOPER	SAA RATING
Arc	Maryland, No. Carolina, Penn, Virginia & USDA	S
Buffalo	Kansas Experiment Station	S
Cody	Kansas Experiment Station	R
Dawson	Nebraska	R
Delta	Mississippi Ag. Experiment Station	S
El Unico	University of Arizona	R
Hayden	Arizona Experiment Station	R
Kanza	Kansas State University & USDA	R
Lahontan	USDA at Nevada	R
Mesa Sirsa	Arizona Experiment Station	R
Moapa	USDA at Nevada	R
Moapa 69	USDA at Nevada	R
Mesilla	New Mexico State Univ. Expt. Station	R
Rambler	Dominion Experiment Farms	S
Ranger	Nebraska Experiment Station & USDA	S
Sonora	Arizona, California, Nevada & USDA	R
Sonora 70	Arizona Experiment Station	R
Team	USDA	S
UC Cargo	California Agricultural Experiment Station	R
UC Salton	" " " "	R
Williamsburg	Eastern Virginia Research Station	S
Washoe	Nevada Experiment Station	R

The relative rating scale used in this list is as follows in regards to SAA:

S = Susceptible
T = Tolerance
R = Resistance

PROPRIETARY VARIETIES AND O.E.C.D. VARIETIES

<u>COMPANY</u>	<u>VARIETY</u>	<u>SAA RATING</u>
Arnold-Thomas	ATCAL 2	S
	ATCAL 7-M	R
	ATCAL 5	R
	ATCAL 6	R
	ATCAL 8	R
	ATCAL 9	R
	ATCAL 10	R
	ATCAL 11	R
	Arnim	S
	Felu	S
	Luna	S
	Victoria	R
Cal-West	183 Alfalfa	R
	123 Alfalfa	S
	153 Alfalfa	S
	Bonus	S
	Vista	S
	Scout	S
	Tempo	S
	Weevlecek	S
	Altfranken-Schmidt	S
	Luna	S
	C/W 5	S
	DK 167	R
	DK 131	R
	C/W 64-4	S
	DK 185	R
Ferry-Morse	FM 100	R
	FM 110	R
	FM 110-A	R
	FM 120	R
	FM 130	R
	FM 200	R
	FM 205	R
	FM 400	S
Germain's	CG 94	R
	CG 95	R
	CG 96	R
	CG 97	R
	CG 98	R
	CG 99	R
Northrup, King & Co.	K1-602	R
	K1-602B	R
	Cardinal	S
	Dominor	S
	Glacier	S
	Promor	S
	Thor	S
	N1-512	R

COMPANY	VARIETY	SAA RATING
Northrup, King & Co	K1-610	R
	K9-624	R
	K1-602	R
	K0-612	R
	P7W	R
	P90M	R
	P9MA	R
	N6-618	R
	N8-604	R
	P9RN	R
	Doehnfeldt Isis	S
	Eynsford	S
	Vertus	S
Security Seed	SC 118	S
	SC 400	S
	Milfeu1	S
	Langmeiler	S
	A-14	S
	Eureka	R
	SS 54	R
	Joaquin 11	R
	Imperial 70	R
Teweles Seed	1D106-2	S
	1D101-1	S
	1D105-3	S
	1D109-3	S
	1AD102-1	S
	1AD103-1	S
Waterman-Loomis	WL-306	R
	WL-309	R
	WL-311	R
	WL 318	R
	WL 219	R
	WL 600	R