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SEED TREATMENT FUNGICIDE OPTIONS for SOYBEANS in SOUTH DAKOTA

Data from FS949, "Managing Crop Diseases with Seed Treatments"

By Larry Osborne and Kay Ruden

The following products may be used to treat seed on-farm (always read and follow label directions):

Trade Name:	Broad-Spectrum Fungicide(s)	Phenylamide ¹ Component	Biological Component	Systemic Insecticide ²	Seed(ling) Rots ³	Fusarium	Rhizoc.	Pythium	Phytophthora ⁴
Fungicide Seed Treatments									
Captan Moly	captan								
Bean Guard Allegiance	captan + carboxin	metalaxyl							
Hi-Moly/Captan D	captan + molybdenum								
Vitavax-34	carboxin								
Enhance Vitavax M DC	carboxin + captan								
Prevail	carboxin + PCNB	metalaxyl							
RTU-Vitavax-Thiram	carboxin + thiram								
Vitaflo-280	carboxin + thiram								
Vitavax CT	carboxin + thiram								
Vitavax M	carboxin + thiram+ molybdenum								
ApronMaxx RFC	fludioxonil	mefenoxam							
ApronMaxx RTA Maxim XL	fludioxonil	mefenoxam							
Warden RTA	fludioxonil	mefenoxam							
Protector-D	thiram + molybdenum								
Protector-L-Allegiance	thiram + molybdenum	metalaxyl							
Trilex AL Flowable	trifloxystrobin	metalaxyl							
Allegiance Dry		metalaxyl							
Allegiance FL		metalaxyl							
Dyna-Shield Metalaxyl		metalaxyl							
MetaStar ST		metalaxyl							
Sebring 480 FS		metalaxyl							
Fungicide plus Insecticide Seed Treatments									
Enhance AW	carboxin + captan			imidacloprid					
Latitude	carboxin	metalaxyl		imidacloprid					
Kernel Guard Supreme	carboxin			permethrin					

For More Information on Plant Disease Management, contact:

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The following seed-treatment products are for commercial use only (always read and follow label directions):

Trade Name:	Broad-Spectrum Fungicide(s)	Phenylamide ¹ Component	Biological Component	Systemic Insecticide ²	Seed(ling) Rots ³	Fusarium	Rhizoc.	Pythium	Phytophthora ⁴
Fungicide Seed Treatments									
Dynasty	azoxystrobin								
Captan 400, 400-C	captan								
Maxim 4FS	fludioxonil								
Rancona 3.8 FS	ipconazole								
Rancona Summit Rancona Xtra	ipconazole	metalaxyl							
Mertect 340-F LSP Flowable	thiabendazole								
Trilex	trifloxystrobin								
Trilex 2000	trifloxystrobin	metalaxyl							
Apron XL Apron XL LS		mefenoxam							
Aquire Sebring 2.65 ST		metalaxyl							
Fungicide plus Insecticide/ Nematicide/Biologica⁵ Seed Treatments									
Poncho/VoTivo			<i>Bacillus firmus</i> I-1582	clothianidin					
Avicta Complete Beans	fludioxonil	mefenoxam		abamectin thiamethoxam					
Cruiser Maxx Cruiser Maxx Plus Warden CZ	fludioxonil	mefenoxam		thiamethoxam					

¹ Phenylamide fungicides include metalaxyl and mefenoxam and target *Pythium* damping-off/root rot as well as downy mildews.

² Clothianidin, Imidacloprid, Permethrin and Thiamethoxam are different systemic insecticides targeting seed- or seedling-attacking insects such as bean leaf beetles. Abamectin is an insecticide/nematicide that targets soil insects and many parasitic nematodes.

³ Seedling rots include (generally) weakly pathogenic fungi: *Penicillium*, *Aspergillus*, *Alternaria* and others.

⁴ *Phytophthora* suppression may be achieved using standard rates; field history of high levels of the disease may require additional metalaxyl/mefenoxam; Phytophthora control (vs. suppression) may require highest labeled rates of phenylamide fungicides.

⁵ *Bacillus* spp. are soil bacteria applied as a seed treatment to manage root-affecting pathogens and nematodes.

Product names and availability are subject to change without notice. These lists may not include all registered seed treatment products, and may include products not registered for use in South Dakota. Always read and follow product label instructions and restrictions.

Efficacy is not guaranteed, and no product endorsements are made or implied. Every attempt has been made to ensure the accuracy of the information presented; however, errors may occur.

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