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Seed Treatment Fungicide Options for Wheat in South Dakota

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SEED TREATMENT FUNGICIDE OPTIONS for WHEAT 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	Additional Fungicide	Systemic Insecticide	Covered Bunt/Smut ²	Loose Smut ²	Seed(ling) Rots ³	Root Rots ⁴	Rhizoc.	Pythium
Fungicide Seed Treatments										
Vitavax-34	carboxin									
Enhance	carboxin + captan									
Vitaflo-280	carboxin + thiram									
Dividend XL RTA Dividend Extreme Incentive RTA	difenoconazole	mefenoxam								
Maxim 4FS	fludioxonil									
Maxim XL	fludioxonil	mefanoxam								
Rancona Apex	ipconazole									
Rancona Pinnacle	ipconazole	metalaxyl								
Grain Guard Penncozeb	mancozeb									
ManKocide	mancozeb + copper hydroxide									
Proceed Concentrate	prothioconazole + tebuconazole	metalaxyl								
Stamina	pyraclostrobin									
Raxil MD Dyna-Shield	tebuconazole	metalaxyl								
Raxil MD Extra	tebuconazole	metalaxyl	Imazalil ⁵							
Sativa M	tebuconazole	metalaxyl								
Charter	triticonazole									
Charter F ² Charter + Acquire	triticonazole	metalaxyl								
Charter PB	triticonazole + thiram									
Charter F ² + Stamina	triticonazole + pyraclostrobin	metalaxyl								
Allegiance dry MetaStar ST Sebring 480 FS		metalaxyl								
Fungicide plus Insecticide^{5,6} Seed Treatments										
Enhance AW	carboxin + captan			imidacloprid						
Gauche XT Flowable Raxil MD-W Sativa IM	tebuconazole	metalaxyl		imidacloprid						
Raxil MD Extra-W	tebuconazole	metalaxyl	imazalil	imidacloprid						
Charter F ² + Axxess	triticonazole	metalaxyl		imidacloprid						

BLUE = Target pest is on product label. GREEN = Not specifically labeled but may be effective.

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	Additional Fungicide	Systemic Insecticide	Covered Bunt/Smut ²	Loose Smut ²	Seed(ling) Rots ³	Root Rots ⁴	Rhizoc.	Pythium
Fungicide Seed Treatments										
Dynasty	azoxystrobin									
Captan 400, 400-C	captan									
Rancona 3.8 FS	ipconazole									
Proceed MD	prothioconazole + tebuconazole	metalaxyl								
Stamina F ³ HL	pyraclostrobin + triticonazole	metalaxyl								
Raxil 2.6F Sativa 318 FS	tebuconazole									
Signet 480 FS	thiram									
Apron XL Apron XL LS		mefanoxam								
Sebring 2.65 ST		metalaxyl								
Fungicide plus Insecticide⁶ Seed Treatments										
Cruiser Maxx Cereals	difenoconazole	mefenoxam		thiamethoxam						
Proceed Plus	prothioconazole + tebuconazole	metalaxyl		clothianidin						

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

² Covered smuts and bunts are generally seed-borne as spores or superficial infections on the outside of seed, while loose smut results in seed infection.

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

⁴ Root rots include one or more from: *Cochliobolus*, *Bipolaris*, and *Fusarium sp.*, causing common root rots and/or crown rots.

⁵ Imazalil specifically targets *Bipolaris spp.*, causing common root rot.

⁶ Clothianidin, Imidacloprid, and Thiamethoxam are different systemic insecticides targeting seed- or seedling-attacking insects such as wireworm.

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.



**SOUTH DAKOTA
WHEAT COMMISSION**

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