

DISEASES OF SOYBEANS

Fungicide Efficacy for Control of Soybean Seedling Diseases

Author:
Kiersten Wise



www.ag.purdue.edu/BTNY



The members of the Identification and Biology of Seedling Pathogens of Soybean project funded by the North Central Soybean Research Program developed this information about how well fungicide seed treatments control soybean seedling diseases in the United States.

The efficacy rating for each fungicide was determined by field-testing the materials over multiple years and locations by the members of the group and include ratings summarized from national fungicide trials published in *Plant Disease Management Reports* (and formerly *Fungicide and Nematicide Tests*) by the American Phytopathological Society at www.apsnet.org. Efficacy ratings are based on the level of disease control the product achieved. Ratings do not necessarily reflect yield increases from applying the product.

The table includes the most widely marketed products available and is not intended list all labeled products. Additional products may be available, but have not been evaluated in a manner allowing a

rating. Some products may contain additional active ingredients for insect and nematode control; however, only the active ingredients for pathogen control are listed and rated here. Many products have specific use restrictions. Read and follow all use restrictions before applying any fungicide to seed or before handling any fungicide-treated seed.

This information is provided only as a guide. It is the applicator's legal responsibility to read and follow all current label directions. Reference in this publication to any specific commercial product, process, or service, or the use of any trade, firm, or corporation name is for general informational purposes only and does not constitute an endorsement, recommendation, or certification of any kind by Purdue Extension or the North Central Soybean Research Program. Individuals using such products assume responsibility for their use in accordance with current directions of the manufacturer.

Find Out More

For control of foliar diseases, see *Diseases of Soybean: Fungicide Efficacy for Control of Soybean Foliar Diseases* (Purdue Extension publication BP-161-W). This and other publications in the *Diseases of Soybean* series are available from the Purdue Extension Education Store: www.the-education-store.com

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BP-163-W

Fungicide(s)			<i>Fusarium</i> sp. ²	<i>Phomopsis</i> sp.	Phytophthora root rot	<i>Pythium</i> sp. ³	<i>Rhizoctonia</i> sp.
Active Ingredient (%)	Trade Name	Rate (lbs a.i./100 lbs seed)					
azoxystrobin (9.6%)	Dynasty®	0.001	G	G	NS	P	E
carboxin (15%) metalaxyl (3.12%) PCNB (15%)	Prevail®	see label	U	G	G	G	G
chloroneb (30%) mefenoxam (1.95%)	Catapult XL®	0.132-0.169	P	P	P	E	E
DX-612 fluxapyroxad (28.7%) DX-309 metalaxyl (28.35%) DX-109 pyraclostrobin (18.4%)	Acceleron®	0.005-0.01 0.015-0.03 0.02-0.04	G	G	E	E	E
fludioxonil (40.3%)	Maxim 4FS®	0.005	G	G	NR	NR	G
fludioxonil (2.31%) mefenoxam (3.46%)	ApronMaxx RFC®	0.006	G	G	P	E	G
fludioxonil (0.73%) mefenoxam (1.1%)	ApronMaxx RTA®	0.003	G	G	P	E	G
metalaxyl (28.35%)	Allegiance FL®	0.015-0.03	NS	NS	E	E	NS
metalaxyl (17.7%)	Allegiance LS®	0.015-0.03	NS	NS	E	E	NS
mefenoxam (33.3%)	Apron XL LS®	0.003-0.015	NS	NS	E	E	NS
fludioxonil (1.12%) mefenoxam (1.7%)	CruiserMaxx®	0.006	G	G	P	G	G
fludioxonil (1.07%) mefenoxam (3.21%)	CruiserMaxx Plus®	0.010	G	G	G	E	G
fludioxonil f1% mefenoxam (5.99%) sedaxane (1%)	Warden CX®	0.019	G	G	E	E	G
fludioxonil (0.72%) mefenoxam (2.21%)	Warden RTA®	see label	G	G	E	E	G
ipconazole (0.72%) metalaxyl (1.153%)	Inovate®	0.006	F-G	G	P	E	F-G
metalaxyl (5.74%) penflufen (3.59%) prothioconazole (7.18%)	EverGol Energy SB®	0.011	G	G	E	E	G
metalaxyl (5.69%) trifloxystrobin (7.12%)	Trilex 2000®	0.009	F-G	G	P	E	F-E
sedaxane (43.7%)	Vibrance®	0.002-0.005	NS	G	NS	NS	E

¹ Efficacy ratings: P=poor, F=fair, G=good, E=excellent, NS=not specified on product label, U=unknown efficacy or insufficient data to rank product.

² Listed seed treatments do not have efficacy against *Fusarium virguliforme*, the causal agent of sudden death syndrome.

³ Products may vary in efficacy against different *Fusarium* and *Pythium* species.