

Soybean SEED TREATMENT

Chemical	Application	Dosage ¹	Control ² of Seedling Blights ³	Remarks
Azoxystrobin Dynasty, 9.6%	Slurry	0.153-0.459 fl oz/cwt	X	For seed-borne and soil-borne fungi causing decay, damping off and seedling blight.
Captan Captan 4000, 38.4% Hi-Moly/Captan-D, 48.9% Hi-Moly Captan, 18.44%	See individual labels for rates of application, formulations and registered use	See individual labels for rates of application, formulations and registered use	X	Hi-Moly contains molybdenum.
Carboxin Vitavax-34, 34% Germate Plus, 14% Kernel Guard Supreme, 14%	Slurry Drill box Drill box	3-4 fl oz/cwt 1.5 oz/42 lb (2 oz/bu) 1.5 oz/50 lb	X X X	Vitavax 34 may be used on seed previously treated with captan or thiram. Germate Plus contains 15% diazinon and 25% lindane insecticide. Kernel Guard Supreme contains 10.42% permethrin.
Carboxin + Captan Enhance, 20%:19%	Drill box	3 oz/bu	X	
Carboxin + Thiram RTU-Vitavax-Thiram, 10%:10%	Liquid or slurry or drill box	3.4 fl oz/bu (6.8 fl oz/cwt)	X	
Chloroneb Chloroneb 65W, 65%	Slurry	4 oz/cwt	X	May be used as a supplemental seed treatment for improved suppression of Rhizoctonia and Pythium.
Fludioxonil Maxim 4FS, 40.3%	Slurry	0.08-0.16 fl oz/cwt	X	For seed-borne and soil-borne fungi. Registered for control of Rhizoctonia and Fusarium.
Ipconazole + Metalaxyl Rancona Summit 0.902%:1.443% Rancona Xtra 1.029%:1.647%	Slurry or mist Slurry or mist	4-15.0 fl oz slurry/cwt 3.5-15 fl oz slurry/cwt	X X	For seed and seedling diseases.
Mefenoxam Apron XL LS, 32.3%	Slurry or mist	0.32-0.64 fl oz/cwt	X	For Pythium and early season Phytophthora control only. For both commercial and on-farm use.

¹Dosage = amount of formulated product to apply.

²X = product labeled for crop and disease; Blank = product not labeled for specific disease.

³Seedling blights due to various fungal infections of seed.

Note: Some seed treatments may affect Rhizobia inoculants; read inoculant label for specific information.

Soybean (continued) SEED TREATMENT

Chemical	Application	Dosage ¹	Control ² of Seedling Blights ³	Remarks
Mefenoxam + Fludioxonil + Thiamethoxam Cruiser Maxx, 1.7%:1.12%:22.61%	Slurry or mist	3 fl oz/cwt	X	For seed-borne and soil-borne fungi and insects.
Mefenoxam + Fludioxonil Apron Maxx RTA, 1.1%:0.73%	Slurry or mist (on-farm application)	5 fl oz/cwt	X	See labels for inoculant remarks.
Apron Maxx RFC, 3.46% : 2.31%	Slurry	1.5 fl oz/cwt	X	
Maxim XL, 8.4% : 21%	Slurry or mist	0.167-0.334 fl oz/cwt	X	
Warden RTA 2.2%:0.72%	Slurry or mist	5 fl oz/cwt	X	
Metalaxyl Acquire, 28.35%	Mist or slurry	0.75 fl oz/cwt	see remarks	Metalaxyl is for Pythium damping off and early season Phytophthora control only. For use only with commercial seed treatment equipment.
Allegiance FL, 28.35%	Mist or slurry	0.75 fl oz/cwt		
Dyna-Shield, 28.35%	Slurry	0.75 fl oz/cwt		
Metalaxyl + Ipconazole + Clothianidin Inovate System 1.64%:1.029%:47.8%	Slurry or mist	4.78 fl oz/cwt	X	For seed-borne and soil-borne fungi and insects. Products need to be mixed together.
Trifloxystrobin Trilex, 22%	Slurry	0.32 fl oz/cwt	X	For seed-borne and soil-borne fungi.
Trifloxystrobin + Metalaxyl Trilex 2000, 7.12%:5.96%	RTU or slurry or mist	1.0 fl oz/cwt	X	For seed-borne and soil-borne fungi.

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³Seedling blights due to various fungal infections of seed.

Note: Some seed treatments may affect Rhizobia inoculants; read inoculant label for specific information.

Soybean BIOLOGICAL SEED TREATMENT

Chemical	Application	Dosage ¹	Control ² of Seedling Blights ³	Remarks
Organism <i>Bacillus pumilus</i> GB 34 Yield Shield, 0.28, 2.75%	Slurry	0.1 oz/cwt	X	

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³Seedling blights due to various fungal infections of seed.

Note: Some seed treatments may affect Rhizobia inoculants; read inoculant label for specific information.

Soybean SOIL APPLICATION

Chemical (Fungicide Group)	Application	Dosage ¹	Control ² of Pythium, Phytophthora	Remarks
Mefenoxam (4) Ridomil Gold EC, 48%	In-furrow spray	0.08-0.28 fl oz/1,000 ft. of row	X	Resistance statement 4 ³ .
Ridomil Gold GR, 2.5%	In-furrow, 7" band or T-band	1.5-6 oz/1,000 ft. of row	X	Do not apply directly to seed but to soil that will be mixed in covering the seed. Use lower rates for early to midseason control; full rates for full-season control. See label for planting restrictions within 12 months of application.
Pyraclostrobin (11) Headline, 23.6%	In-furrow spray	0.4-0.8 fl oz/1,000 ft row		For suppression of Rhizoctonia. For 22" rows, use maximum of 0.5 fl oz/1,000 ft of row. For 30" rows, use maximum of 0.7 fl oz/1,000 ft of row.

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³See fungicide resistance management statements on Pages 9-10.

SOYBEAN NEMATICIDE SEED TREATMENT

Chemical	Application	Control	Remarks
Abamectrin Avicta 500FS, 46.3%	Commercially applied	Nematodes	Syngenta has an <i>Avicta Complete Soybean</i> commercial brand that recommends the combination of multiple separate seed treatment products.

Soybean FOLIAR SPRAYS

Chemical (Fungicide Group)	Application ¹	Dosage ²	White Mold Control ³	Remarks
Bacillus subtilis strain QST 713 (44) Serenade ASO	Spray or fungigation	2-6 qt/A	X	For suppression.
Bacillus pumulis BalladPLUS	Spray or fungigation	0.5-4 qt/A	X	Use 0.5 to 4 qt/A in tank mix with labeled rates of strobilurins fungicides when conditions are conducive to disease development. Use 1 to 4 qt/A stand-alone.
Boscalid (7) Endura, 70%	Spray or fungigation	3.5-11 oz/A	X	For optimal white mold control, apply at early flowering. If environment remains favorable for disease development, make a second application 7-14 days after initial application.
Qols Azoxystrobin (11) Quadris, 22.9%	Spray	6.2-15.4 fl oz/A		Resistance statement 5 ⁴ for all. Both products control pod and stem blight, soybean rust and brown spot.
Fluoxystrobin (11) Evito 480SC, 40.3%	Spray or fungigation	2.0-5.7 fl oz/a		For control of Asian soybean rust and many fungal leaf spots. Begin applications preventively and continue as needed on 14- to 21-day interval. Do not apply more than 11.4 fl oz per year.
Pyraclostrobin Headline, 23.6% Headline SC, 23.3%	Spray or fungigation	6-12 fl oz/A		Apply prior to onset of disease. PHI = 21 days.
Qols + Triazoles Azoxystrobin (11) + Propiconazole (3) Quilt, 7%:11.6%	Spray or fungigation	14-20.5 fl oz/A		Resistance statement 5 ⁴ and 3 ⁴ . Quilt controls several diseases in soybeans including soybean rust. Do not apply more than 42 fl oz/A. PHI: 21 days for seed; 0 for forage or hay.
Quilt Xcel, 13.5%:11.7%	Spray or fungigatoin	10.5-21 fl oz/A		Quilt Xcel controls several diseases in soybeans. Do not apply more than 42 oz/a/year. Do not apply after R6 stage soybeans.
Azoxystrobin (11) + Cyproconazole (3) Quadris Xtra, 18.2%:7.3%		5.0-6.8 fl oz/A		Quadris Xtra controls several diseases in soybeans, including soybean rust. Quadris Xtra is extremely phytotoxic to certain apple varieties, so don't spray when drift may reach apples. Do not apply more than 13.6 fl oz/A. Do not apply within 30 days of harvest.
Trifloxystrobin (11) + Propiconazole (3) Stratego 11.4%:11.4%	Spray or fungigation	10 fl oz/A		Stratego controls several diseases in soybeans, including soybean rust. Do not make more than 3 applications per season. Do not apply within 21 days of harvest.
Stratego YLD 10.8%:32.3%	Spray or fungigation	4.0-4.65 fl oz/A		For leaf spots and Asian soybean rust. Do not make more than 3 applications/season. Do not apply more than 13.95 fl oz/a/year. Do not apply within 21 days of harvest.

¹Spray = ground or aerial; Fungigation = application through sprinkler irrigation system.

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⁴See fungicide resistance management statements on Pages 9-10.

Soybean (continued)

FOLIAR SPRAYS

Chemical (Fungicide Group)	Application ¹	Dosage ²	White Mold Control ³	Remarks
Chlorothalonil (M5) Bravo Ultrex, Equus DF, 82.5% Bravo WeatherStik, Echo 720 Equus 720, or Chlorothalonil 720, 54% Echo 90 DF, 90% Echo Zn, 38.5%	Spray or fungigation Spray or fungigation Spray or fungigation Spray or fungigation	See label See label See label See label		Chlorothalonil products control pod and stem blight and stem canker, and suppress soybean rust. Do not feed soybean hay or threshings from chlorothalonil-treated fields to livestock.
Cyproconazole (3) Alto 100 SL, 8.9%	Spray or fungigation	4.0-5.5 fl oz/A		For control of soybean rust and other leaf diseases. See label for specific rate recommendations. Do not apply more than 11 fl oz/season. Do not apply with 30 days of harvest.
Propiconazole (3) Tilt 3.6 EC, or Propiconazole E-AG, 41.80% Bumper 418 EC	Spray Spray	4-6 fl oz/A 4-6 fl oz/A		Resistance statement 3 ⁴ . Propiconazole controls several diseases of soybeans, including soybean rust. Do not apply more than 12 fl oz/A. Apply up to R6.
Prothioconazole (3) Proline 480 SC, 41%	Spray	3 fl oz/A	X	A 2 (ee) label allows application of Proline at 3 fl oz/A in soybeans for suppression of white mold. For control of soybean rust and powdery mildew. Do not apply more than 9 fl oz/year. 21-day PHI.
Tebuconazole 38.7% (3) Folicur 3.6F Orius 3.6F Tebuzol 3.6F Monsoon	Spray	3-4 fl oz/A		For control of soybean rust and powdery mildew. Do not apply more than 12 fl oz/A per season. These products have a 21-day PHI.
Tetraconazole (3) Domark 230, 20.5%	Spray	4-5 fl oz/A		Resistance statement 3 ⁴ . For several diseases of soybeans, including soybean rust. Do not apply after growth stage R5 (beginning seed). Do not apply more than twice a year or 10 fl oz/A per year.

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Soybean (continued)

FOLIAR SPRAYS

Chemical (Fungicide Group)	Application ¹	Dosage ²	White Mold Control ³	Remarks
Thiophanate Methyl (1) Topsin M WSB 70WE, T-methyl WSB 70W, 70%	Spray or fungigation	0.751 lb/A	X	Thiophanate-methyl also controls pod and stem blight but is not labeled for control of soybean rust.
Topsin M 70WP, or T- Methyl E-AG 70 WSP, 70%	Spray or fungigation	0.75-1 lb/A	X	One application at early bloom (R1-R2) followed by a second application 7-14 days later if conditions favorable for continued disease pressure. 21-day PHI. 5 gal/A minimum by air.
Topsin 4.5 FL, 45% or T-Methyl E-AG 4.5 FL	Spray or fungigation	10-20 fl oz/A	X	
Thiophanate Methyl 85 WDG, 85%	Spray or fungigation	0.4-0.8 lb/A pod and stem blight 0.6-0.8 lb/A white mold	X	

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