

Corn (Field) and Sorghum SEED TREATMENT

Chemical	Application	Dosage ¹	Control ² of Seedling Blights ³	Remarks
Azoxystrobin Dynasty, 9.6%	Slurry	0.0688 fl oz/80,000 kernel count unit	X	Use only in combination with labeled rates of Maxim and Apron XL products.
Captan The following captan products are registered for seed treatment of corn and sorghum: Captan - Diazinon Seed Treater, 36.67% Methoxychlor, 70.9% Kernel Guard, 14.67% (corn only) Nu-Gro Captan 4000, 38.7% Sorghum Guard, 32.75%	See individual labels for rates of application, formulations, method of application and registered use	See individual labels for amounts of formulated product to apply	X	Captan - Diazinon Seed Treater contains 25% diazinon insecticide. Kernel Guard contains 15% diazinon and 25% lindane. Sorghum Guard contains 16.6% lindane insecticide.
Carboxin Vitavax 34, 34% Kernel Guard Supreme, 14%	Slurry Drill box	2-4 fl oz/cwt 1.5 oz/42 lb	X X	Not registered for sorghum. May be used on seed previously treated with captan or thiram. Kernel Guard contains 10.42% permethrin.
Fludioxonil +Mefenoxam Maxim XL, 21% : 8.4%	Water-based slurry	.071 fl oz/80,000 kernel count unit of seed	X	Controls seedling blights and fungi causing seed decay and damping off. For field corn.
Ipconazole Vortex, 40.7%	Water-based slurry	0.044 fl oz/cwt	X	For protection against soil-borne and seed-borne diseases.

Dosages for corn apply to field corn. Dosages for sweet corn vary with some products, and others are not registered for sweet corn, so consult the label for sweet corn information. Dosages are 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.

Corn (Field) and Sorghum (continued)

SEED TREATMENT

Chemical	Application	Dosage ¹	Control ² of Seedling Blights ³	Remarks
Mancozeb Dithane DF Rainshield NT, 75%	Slurry	1.6-3.2 oz/bu field corn 1.6-2.7 oz/bu sorghum	X	Dithane DF, F-45 and M-45 registered for seed treatment of field corn and sorghum but not for seed treatment of sweet corn. Grain Guard and Grain Guard Plus registered for sorghum only. Grain Guard Plus contains 18.75% lindane insecticide. Treated seed should be labeled "must not be used for food, feed or oil purposes."
Dithane F-45, 37%	Drill box or slurry	2.4-4.8 fl oz/bu field corn, 2.4-4.0 fl oz/bu sorghum	X	
Dithane ST, 37%	Slurry or mist	2.4-4.8 fl oz/bu field corn 2.4-4.0 fl oz/bu sorghum	X	
Dithane M-45, 80% or Dithane WSP, 80%	Drill box or slurry	1.5-3.0 oz/bu field corn 1.5-2.5 oz/bu sorghum	X	
Grain Guard, 50%	Drill box	3 oz/bu	X	
Grain Guard Plus, 50%	Drill box	3 oz/bu	X	
Manzate ProStick, 75%	Slurry	1.5-3 oz/bu corn 1.5-2.5 oz/bu sorghum	X	
Penncozeb 80 WP, 80%	Drill box or slurry	1.5-3.0 oz/bu field corn 1.5-2.5 oz/bu sorghum	X	
Penncozeb 75 DF, 75%	Drill box or slurry	1.6-3.2 oz/bu field corn 1.6-2.7 oz/bu sorghum	X	
Mefenoxam Apron XL LS, 32.3%	Liquid or slurry	0.32-0.64 fl oz/cwt	X	For control of Pythium damping off only.
Metalaxyl Allegiance FL, 28.35% or Sebring 318 FS, 28.35%	Mist or slurry	0.375-0.75 fl oz/cwt sorghum	X	For control of Pythium damping off only.
Dyna-Shield, 28.35% Acquire, 28.35%	Slurry Mist or slurry	0.75 fl oz/cwt corn 0.75 fl oz/cwt corn	X X	
Metalaxyl + PCNB + Carboxin Prevail, 3.12%:15%:15%	Drill box	3 oz/bu	X	Not registered for sorghum. Controls early season Pythium and Rhizoctonia.
Pyraclostrobin Stamina, 18.4%	Slurry or mist	0.4-0.8 fl oz/cwt	X	Not registered for sorghum. Controls seed and seedling disease caused by Rhizoctonia solani, seed-borne fungi causing seed decay and seedling blight.
Thiram 42-S Thiram, 42% Signet 480 FS, 42%	Liquid or slurry	1.5 fl oz/bu field corn 5.0 fl oz/cwt sweet corn 2 fl oz/bu sorghum	X	
Trifloxystrobin Trilex, 22%	Slurry or mist	0.32-0.64 fl oz/cwt	X	

¹Dosages for corn apply to field corn. Dosages for sweet corn vary with some products, and others are not registered for sweet corn, so consult the label for sweet corn information. Dosages are 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.

CORN NEMATOCIDE SEED TREATMENT

Chemical	Application	Control	Remarks
Abamectrin + Thiamethoxam Avicta Duo Corn, 12.4%:28.1%	Commercially applied	Root nematodes (by abamectrin) and various insects (by thiamethoxam)	Syngenta has an <i>Avicta Complete Corn</i> commercial brand that recommends the combination of multiple separate seed treatment products.

Corn (Field) FOLIAR SPRAYS

Chemical (Fungicide Group)	Application ¹	Dosage ²	Disease Control ³		Remarks
			Rust	Leaf Spots ⁴	
Bacillus subtilis strain QST 713 (44) Serenade ASO	Spray or fungigation	2-6 qt/A	X	X	Begin applications when environmental conditions and plant stage are conducive to disease development.
Bacillus subtilis strain QST 2808 (44) BalladPLUS	Sprays or fungigation	1-4 qt/A	X	X	Begin applications when environmental conditions and plant stage are conducive to disease development.
Mancozeb (M3) Manzate ProStick, 75% Penncozeb 75DF	Slurry Slurry	1.5 lb/A 1-1.15 lb/A	X X	X X	Do not feed treated forage to livestock. Do not apply more than 16 lb product per season. Do not apply within 40 days of harvest.
Propiconazole (3) Tilt, Propimax, or Bumper, Propiconazole E-AG, 41.8% Fitness, 41.8%	Spray or fungigation	4 fl oz/A for rusts 2-4 fl oz/A for Helminthosporium leaf blights 4 fl oz/A for Gray leaf spot and eye spot	X	X	Resistance statement 3 ⁵ . Do not apply to field corn and field corn grown for seed after silking. Do not apply more than 16 oz/A per season. Do not apply to sweet corn within 14 days of harvest or field corn within 30 days of harvest. See label for restrictions on use for forage.
Tebuconazole (3) Folicur, 38.7% Orius, 38.7% Tebuzol 3.6F, Monsoon, Onset 3.6L	Spray or fungigation	4-6 fl oz/A	X	X	See individual labels for spray schedule recommendations and preharvest intervals.
Qols Azoxystrobin (11) Quadris, 22.9%	Spray or fungigation	6.2-9.2 fl oz/A rust 9.2-15.4 fl oz/A leaf spots	X	X	Resistance statement 5 ⁵ for all. Do not apply more than 2 sequential applications and do not apply more than 3.75 quarts per acre per season. For field, pop and sweet corn. Quadris at 6 oz/A may be applied at the V5 corn for control of early season diseases.
Fluoxastrobin (11) Evito 480SC, 40.3%	Spray or fungigation	2.0-5.7 fl oz/A	X	X	Apply maximum of 2 applications (with final application no later than the R4 early growth stage). Do not apply more than 11.4 fl oz/year.
Pyraclostrobin (11) Headline, 23.6%	Spray or fungigation	6-12 fl oz/A	X	X	Apply prior to disease onset. Apply at VT stage for optimal disease control. PHI = 7 days. Do not exceed 72 fl oz/A per season; maximum of 2 sequential applications.

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

² Dosage = amount of formulated product to apply.

³ X = product labeled for crop and disease; Blank = product not labeled for specific disease.

⁴ Leaf spots include fungal leaf diseases such as the Helminthosporium leaf blights on corn.

⁵ See fungicide resistance management statements on Pages 9-10.

Corn (Field) (continued) FOLIAR SPRAYS

Chemical (Fungicide Group)	Application ¹	Dosage ²	Disease Control ³		Remarks
			Rust	Leaf Spots ⁴	
Qois + Triazole Azoxystrobin (11) + Propiconazole (3) Quilt 7.0% : 11.7% Quilt Xcel 13.5%:11.7%	Spray or fungigation Spray or fungigation	7-14 fl oz/A 10.5-14 fl oz/A	X X	X X	Resistance statement 3 ⁵ . Field corn, popcorn and sweet corn. Alternate applications of Quilt or Quilt Xcel with Tilt or another non-Group 11 fungicide. For best disease control, make applications after R1. PHI = 30 days.
Pyraclostrobin (11) + Metconazole (3) Headline AMP 13.64%:5.14%	Spray	10-14.4 fl oz/A	X	X	
Trifloxystrobin (11) + Propiconazole (3) Stratego, 11:4%:11.4% Stratego YLD, 10.8%:32.3%	Spray or fungigation Spray or fungigation	10-12 fl oz/A 4.0-5.0 fl oz/A	X X	X X	Resistance statement 3 ⁵ and 5 ⁵ . For optimum disease control, apply Stratego from VT to R2 stage of growth. Apply up to 30 days before harvest. Apply Stratego YLD from R1 to R2 stage of growth. Do not apply more than 10 fl oz/A/year. Do not apply within 14 days of harvest.

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

²Dosage = amount of formulated product to apply.

³X = product labeled for crop and disease; Blank = product not labeled for specific disease.

⁴Leaf spots include fungal leaf diseases such as the Helminthosporium leaf blights on corn.

⁵See fungicide resistance management statements on Pages 9-10.

Crambe SEED TREATMENT

Chemical	Application	Dosage ¹	Control ² of Seedling Blight ³	Remarks
Fludioxonil Maxim 4FS, 40.3%	Slurry	0.08-0.16 fl oz/cwt	X	For Rhizoctonia and Fusarium.

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.