

TURF DISEASE CONTROL

Alfredo Martinez-Espinoza, Extension Plant Pathologist

DISEASE	FUNGICIDE	FRAC	RATES (OZS./1000 ft ²)	REMARKS
Algae	<i>chlorothalonil</i> Chlorostar Chlorothalonil 500ZN, 720SFT, DF Daconil Action Daconil G Daconil Ultrex Daconil Weatherstik Daconil Zn Docket Echo DF Echo Dyad ETQ Evade Legend Manicure Manicure Ultra Pegasus DFX	M5	1.8-7.4 oz. at 7-14 day intervals	Make sure surface drainage is good. Spike, slice or aerify if necessary. Label changes by manufacturers restrict use to commercial turf only. Not to be used on home lawns.
	<i>copper hydroxide</i> Kocide 54DF	M1	16 oz	1 application.
	<i>fluazinam</i> Secure	29	0.5 fl oz at a 14 day interval	For Algal scum (filamentous blue-green algae/cyanobacteria).
	<i>fluxapyroxad</i> Xzemplar	7	0.21-0.26 fl oz at 14-28 day interval	
	<i>hydrogen dioxide</i> Zerotol TerraCyte Pro	NC	6-25 oz	Curative control may require 2-3 consecutive applications.
	<i>mancozeb</i> Dithane Fore Manzate Protect T/O	M3	80WP-6 oz 4F-9.6 fl oz	
	<i>mancozeb + copper sulfate</i> Junction	M3 + M1	2-4 oz at 7- 14 day intervals	May cause phytotoxicity during hot weather.
	<i>triticonazole</i> Trinity, Triton	3	0.5-1.0 fl oz at 14-28 day intervals	For algae suppression.
	<i>triticonazole + chlorothalonil</i> Reserve	3 + M5	3.2-5.4 oz at 14-28 day intervals	Use the lower rate preventively for the suppression of algae.
Brown/Large Patch (<i>Rhizoctonia solani</i>) and Dollar Spot (<i>Sclerotinia homoeocarpa</i>)	<i>azoxystrobin</i> Heritage 50WG Heritage G Heritage TL, Strobe, ArmorTech Zoxy	11	0.2-0.4 oz. at 14-28 day intervals 2-4 lbs. at 14-28 day intervals Heritage TL: 2 fl. oz.	*Not Recommended for Dollar Spot.
	<i>azoxystrobin + acibenzolar-s-methyl</i> Heritage Action	11 + P	0.2-0.4 oz. at 14-28 day intervals	*Not Recommended for Dollar Spot.
	<i>azoxystrobin + chlorothalonil</i> Renown	11 + M5	2.5-4.5 fl. oz. at 7-28 day intervals	

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TURF DISEASE CONTROL (continued)				
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Brown/Large Patch (<i>Rhizoctonia solani</i>) and Dollar Spot (<i>Sclerotinia homoeocarpa</i>) (continued)	<i>azoxystrobin + difenconazole</i> Briskway	11 + 3	BP/LP = 0.3-0.725 fl oz at 14-28 day intervals DS = 0.3-0.725 fl oz at 14-21 day intervals	
	<i>azoxystrobin + propiconazole</i> Headway	11 + 3	0.75-3 oz. at 14-28 day intervals	
	<i>azoxystrobin + tebuconazole</i> ZoxyT, Strobe T	11 + 3	0.5-1.5 oz. at 14-28 day intervals 0.75-1.5 oz. at 14-28 day intervals	
	<i>Boscalid</i> Emerald	7	0.13-0.18 oz. at 14-21 day intervals	*For Dollar Spot control only. Apply when conditions are favorable for disease development.
	<i>bacillus licheniformis</i> EcoGuard SB 3086	44	Up to 20 oz. at 3-14 day intervals	
	<i>bacillus subtilis</i> Strain QST713 Rhapsody, Sonnet, ArmorTech Sonnet	44	2.0-10 fl oz at 7-10 day intervals 0.5-2.5 fl oz at 7-10 day intervals	Apply in sufficient water to provide thorough coverage 2 gals./1000 ft ² are commonly used.
	<i>bacillus subtilis</i> Strain GB03 Companion	44	4.0-6 fl oz at 14-28 day intervals	
	<i>chlorothalonil</i> ArmorTech CLT 720 ArmorTech CLT 825 Chlorostar Chlorothalonil 500ZN, 720SFT, DF Daconil Action Daconil G Daconil Ultrex Daconil Weatherstik Daconil Zn Docket Echo DF Echo Dyad ETQ Evade Legend Manicure Manicure Ultra Pegasus DFX	M5	Flowable 40.4% Preventive: Brown Patch-3-6 fl oz at 7-10 day intervals Dollar Spot-3-6 fl oz at 7-14 day intervals Curative: Brown Patch-6-11 fl oz at 7-10 day intervals Dollar Spot-6-11 fl oz at 7-14 day intervals Wettable Powder (WDG90) Preventive: Brown Patch-1.75-3.5 oz. at 7-10 day intervals Dollar Spot-1.75-3.5 oz. at 7-14 day intervals. 4 oz. = 15 Tbs. Curative: Brown Patch-3.5-6.5 oz. at 7-10 day intervals Dollar Spot-3.5-6.5 oz. at 7-14 day intervals	Recent label changes by manufacturers restrict use to commercial turf only. Not to be used on home lawns.
	<i>chlorothalonil + propiconazole</i> Concert Concert II	M5 + 3	1.5-3 fl oz at 7-10 day intervals 3-5.5 fl oz at 14-21 day intervals 5.5- 8.5 fl oz at 14-28 day intervals	
	<i>chlorothalonil + propiconazole + fludioxonil</i> Instrata	M5 + 3 + 12	2.75-6 fl oz at 21-28 day intervals	

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TURF DISEASE CONTROL (continued)				
DISEASE	FUNGICIDE	FRAC	RATES (OZS./1000 ft ²)	REMARKS
Brown/Large Patch (<i>Rhizoctonia solani</i>) and Dollar Spot (<i>Sclerotinia homoeocarpa</i>) (continued)	<i>chlorothalonil + thiophanate methyl</i> Consys Peregrine Tee-1-up WDG TM + CTN SPC	M5 + 1	2-8 oz. at 7-21 day intervals 2-5.76 oz. at 7-14 day intervals	
	<i>chlorothalonil + thiophanate methyl + iprodione + tebuconazole</i> Enclave	M5 + 1 + 2 + 3	3-4 fl oz at 14-21 day intervals 7-8 fl oz at 28 day intervals	Apply when disease first appears. Make additional applications as needed. Allow spray to dry watering in.
	<i>hydrogen dioxide</i> TerraCyte Pro Zerotol	NC	6-25 oz.	Curative control may require 2-3 consecutive applications.
	<i>fenarimol</i> Rubigan A.S. 11.6	3	0.75-1.5 fl oz at 10-21 day or 14-28 day intervals respectively for Dollar Spot	
	<i>fluzinam</i> Secure	29	0.5 fl oz at a 14 day interval	D.S. apply as preventative disease program, starting when conditions become favorable for disease. B.P. apply when conditions become favorable for disease. L.P. apply in fall when temperatures drop below 70°F.
	<i>fludioxonil</i> Medallion Medallion SC	12	0.5-0.9 oz. at 14-28 day intervals 0.75- 2 fl oz at 7-14 day interval	Use as preventative. Begin application when conditions are favorable for fungal infection; prior to disease symptom development.
	<i>fluopyram + trifloxystrobin</i> Exteris	7+11	BP=2.135-6.0 fl oz at 14-28 day intervals DS=1.5-4.135 fl oz at 7-28 day intervals	B.P. lightly water-in application to move fungicide into thatch for increased effectiveness
	<i>Flutolanil</i> ProStar 70WG Prostar WP	7	Preventive: 2.2 oz at 21-28 day intervals Curative: 4.5 oz Repeat in 30 days.	Use of wetting agent or aeration prior to treatment may improve disease control. Do not treat more than 10,000 ft ² . per acre of turfgrass.
	<i>flutolanil + thiophanate methyl</i> Systar	7 + 1	2-3 oz. at 14-30 day intervals	
	<i>fluoxastrobin</i> Disarm 480 SC Disarm G Fame SC Fungicide Fame G Fungicide	11	0.18-0.36 fl oz at 21 day intervals 2.3-4.6 lbs. at 14-21 day intervals 0.18-0.36 fl oz at 28 day intervals	Recommended for Brown Patch. For optimum results begin applications preventatively and continue as needed (21 day intervals). To limit the potential for development of fungicide resistance use a maximum of 2 sequential applications of a QoI fungicide followed by at least an equal number of applications of another mode of action fungicide. Preventive control of light to moderate Dollar Spot infections.
	<i>fluoxastrobin + chlorothalonil</i> Disarm C, Fame + C	11 + M5	3-5.9 oz. at 7-28 day intervals	
	<i>fluoxastrobin + myclobutanil</i> Disarm M	11 + 3	0.25-1.0 oz. at 14-28 day intervals	
	<i>fluoxastrobin + tebuconazole</i> Fame + T	11 + 3	0.45-0.9 oz. at 21-28 day intervals	
<i>fluxapyroxad</i> Xzemplar	7	0.21-0.26 fl oz at 14-28 day intervals	For BP, LP and DS	
<i>fluxapyroxad + pyraclostrobin</i> Lexicon	7 + 11	0.34-0.47 fl oz at 14-28 days intervals	For BP, LP and DS	

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TURF DISEASE CONTROL (continued)				
DISEASE	FUNGICIDE	FRAC	RATES (OZS./1000 ft ²)	REMARKS
Brown/Large Patch (<i>Rhizoctonia solani</i>) and Dollar Spot (<i>Sclerotinia homoeocarpa</i>) (continued)	<i>iprodione</i> 18 Plus Armor Tech IP233 Chipco 26GT Chipco 26019 Eclipse ETQ Iprodione Pro 2SE Iprodione SPC Ipro2SE, Raven	2	2-4 fl oz in 2-10 gals. water. Apply every 14-21 day. 1.5 oz. = 9 tbs 1.5-2.0 oz at 14-21 day intervals 3-4 fl oz at 14-28 day intervals	Not for use in residential areas.
	<i>iprodione + thiophanate methyl</i> 26/36 ArmorTech TMI 2020 Dovetail Lesco Twosome TM + IP SPC	2 + 1	1-4 oz at 14-21 day intervals	
	<i>iprodione + trifloxystrobin</i> Interface	2 + 11	4-6 oz at 14- 21 day intervals	
	<i>isofetamid</i> Kabuto Fungicide SC	7	0.4-0.5 fl oz at 14 day interval	For dollar spot only
	<i>mancozeb + copper hydroxide</i> Junction	M3 + M1	2-4 oz at 7-14 day intervals	
	<i>maneb</i> <i>maneb + zinc sulfate</i> <i>mancozeb</i> Dithane Fore Protect T/O Tersan LSR, etc.	M3	Preventive: 3-4 oz in 3-5 gals water at 7-10 day intervals Curative: 6-8 oz in 3-5 gals water at 7-10 day intervals 3 oz = 10 Tbs.	
	<i>metconazole</i> Tourney	3	Dollar Spot—0.18 to 0.37 oz at 14-21 day intervals Brown Patch—0.28 to 0.37 oz at 14-21 day intervals	Apply when conditions are favorable for disease development. Do not use on bermudagrass.
	<i>mineral oil</i> Civitas	NC	8-32 oz	Use only in conjunction with Civitas Harmonizer.
	<i>myclobutanil</i> ArmorTech Myclo 20EW Eagle 20EW Eagle 40WSP Lebanon Eagle G Myclobutanil 20EW T/O		Preventive: 0.6 oz at 10-28 day intervals (3 oz. pkt/5000 ft ²) Myclo 20EW 1.2-2.4 oz	Do not apply more than 7.2 oz./1000 ft ² per year.
<i>PCNB</i> Engage Penstar Revere Terraclor Turfcide	14	<u>Brown Patch</u> warm season grasses—16 oz in 10-15 gal water at 3-4 week intervals cool season grasses—3-4 oz in 3-6 gal water at 7-10 day intervals <u>Dollar Spot</u> 7-10 oz in 5 to 10 gal water at 3 to 4 week intervals		

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Brown/Large Patch (<i>Rhizoctonia solani</i>) and Dollar Spot (<i>Sclerotinia homoeocarpa</i>) (continued)	<i>penhiopyrad</i> Velista	7	DS and BP = 0.3 to 0.5 oz 14-21 day intervals LP = 0.7 oz at 14-28 day intervals	Begin applications at early stages of disease development. Use high rate for high disease pressure or for curative situations. L.P. = Make two applications in the fall as a preventative. Apply in early spring if disease pressure is high.
	<i>phosphorous acid</i> Fosphite	33	2-3 fl oz	
	<i>polyoxin D</i> Affirm Endorse	19	4 oz in a minimum of 2 gallons at 14 day intervals 2.4 lbs/acre at 7-14 day intervals	Do not irrigate for 12 hrs. after application. *Not recommended for Dollar Spot.
	<i>propiconazole</i> ArmorTech PPZ143MC Banner Maxx Banner GL Kestrel Monsoon turf ProPensity 1.3ME Propiconazole SPC 14.3 Propicure 3.6F Prophesy Savvi Strider	3	1-2 fl oz (Dollar Spot & Brown Patch) 2-5 gals water at 14-28 day intervals for Dollar Spot and 14-21 day intervals for Brown Patch. As conditions become more severe, use the shorter application schedule and the higher rate. Banner GL individual packets; one packet treats 11,000-22,000 ft ²	Do not mow or irrigate treated areas until grass is completely dry. Do not use on home lawns. Bermudagrass and St. Augustinegrass can be sensitive to Banner. Do not exceed 2 fl. oz. per 1000 ft ² every 30 days on any variety of Bermudagrass or St. Augustinegrass.
	<i>pyraclostrobin</i> Insignia Insignia Intrinsic	11	0.5-0.9 oz at 14-28 day intervals	For Dollar Spot, begin applications prior to or in the early stages of disease development. Use shorter specified application intervals and / or higher specified rate when prolonged favorable disease conditions exist.
	<i>pyraclostrobin + boscalid</i> Honor Honor Intrinsic	11 + 7	Brown Patch = 0.55-1.1 oz at 14 to 28 day intervals Dollar Spot = 0.88-1.1 oz at 14 to 21 day intervals	
	<i>pyraclostrobin + triticonazole</i> Pillar	11 + 3	3.0 lbs at 28 day intervals	Do not make more than 5 applications per year at the use rate of 3.0 lbs. per 1000 ft ² .
	<i>Reynoutria sachalinensis</i> Regalia PTO	P5	1-3 fl oz at 7-14 day intervals	Plant extract. Use in a minimum of 1.5 gal water /1000 ft ² . Begin applications preventatively.
	<i>tebuconazole</i> ArmorTech 360 XL, Mirage Stressguard, Sipcam Clearscape Sipcam Clearscape ETO Torque	3	0.6 fl oz Mirage = 1.0-2.0 fl oz	For prevention, begin applications when conditions are favorable for disease development. Do not make two consecutive applications of Torque fungicide. Alternate with another fungicide with different mode of action. A second application may be made after 28 days. Mirage = BP and DS 14-28 day intervals; LP = Begin fungicide applications preventatively in the fall and spring. Make 1-2 applications when conditions are favorable for disease development.

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Brown/Large Patch (<i>Rhizoctonia solani</i>) and Dollar Spot (<i>Sclerotinia homoeocarpa</i>) (continued)	<i>thiophanate methyl</i> ArmorTech TM462 Cleary's 3336 3336 DG Lite 3336 F 3336 G 3336 GC 3336 Plus Cavalier Fungo Systec 1998 T-Bird 4.5L T-Bird 85 WDG T-Storm Tee-Off 4.5F	1	Wettable Powder (50%) 2 oz/5 gals water Apply at 7-10 day intervals Dollar Spot fairways—1 oz/5 gals water Apply at 2-4 week intervals Flowable 46.2 % 1-2 fl oz at 10-14 day intervals TM462 2-5.3 fl oz	
	<i>thiram</i> Spotrete F	M3	Preventative: 3 ¾ fl oz at 7-10 day intervals Curative: 7 ½ fl oz at 3-5 day intervals	For best results use spray mix the same day it is prepared. Spray right after mowing or avoid mowing 12 hrs after application.
	<i>triadimefon</i> Bayleton 25WP Bayleton 50 Bayleton Flo Granular turf fungicide Systemic fungicide Fungicide VII	3	Preventative: 1 oz./2-4 gals. water Curative: 2 oz./2-4 gals water 1 oz. = 6 tbs. Preventative: 1.5 lbs. at 15-30 day intervals Curative: 3 lbs. at 15-30 day intervals Syst. Fung. 0.5-1 oz. at 15-30 day intervals Bayleton 50 and Flo 0.5-1.0 oz	Apply recommended rate at 15-30 day intervals. Protective activity can be longer than 30 days depending on environmental conditions. After the application of curative rate, subsequent applications should be applied on a preventative schedule and rate. For golf and sod. Not to be used on residential or commercial areas.
	<i>trifloxystrobin</i> Compass	11	Preventative: 0.1-0.2 oz. in 1-2 gals. of water per 1000 ft ² at 14 day intervals Curative: 0.15-0.25 oz. in 1-2 gals. of water per 1000 ft ²	Apply when conditions are favorable for disease development. Apply 0.2 oz. and repeat on a 21 day interval. During periods of Dollar Spot pressure, mix Compass with fungicides labeled for Dollar Spot.
	<i>trifloxystrobin + triadimefon</i> Armada, Tartan	11 + 3	1- 2 oz at 14 to 28 day intervals 0.6-1.2 oz at 14 to 28 day intervals	
	<i>triticonazole</i> Trinity Triton	3	0.5-1.0 fl oz for Dollar Spot at 14-28 day intervals 0.5-2.0 fl oz for Brown Patch at 14-28 day intervals	2 fl. oz. rates may be applied if needed in transition areas of the South under heavy disease pressure.
	<i>triticonazole + chlorothalonil</i> Reserve	3 + M5	Brown Patch = 3.2-5.4 oz at 14-28 day intervals Dollar Spot = 3.2-4.5 oz at 14-28 day intervals	Brown Patch = Begin fungicide applications preventatively when conditions are favorable for disease development. Dollar Spot = Begin fungicide applications preventatively.

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Brown/Large Patch (<i>Rhizoctonia solani</i>) and Dollar Spot (<i>Sclerotinia homoeocarpa</i>) (continued)	<i>vinclozolin</i> Curalan Touche	2	2 oz/5 gals water 2 oz = 8.5 tbs	Repeat application in 1-3 weeks while disease conditions prevail. Toxic to fish.
Fairy Ring	<i>azoxystrobin</i> Heritage 50WG Heritage TL Heritage G Strobe Strobe 50WG Strobe 2L	11	0.4 oz applied at 28 day intervals 2-4 lbs at 14-28 day intervals	
	<i>azoxystrobin</i> + <i>acibenzolar-s-methyl</i> Heritage Action	11 + P	0.2-0.4 oz. at 14-28 day intervals	
	<i>azoxystrobin</i> + <i>propiconazole</i> Headway	11 + 3	3 oz at 28 day intervals	
	<i>azoxystrobin</i> + <i>difconazole</i> Briskway	11 + 3	0.5- 0.725 fl oz at 14-28 day intervals	For preventive control apply in early spring prior to disease development. Apply in 2-4 gals. of water/1000 ft ² . Irrigate into thatch prior to the spray drying. For curative control apply as soon as possible after fairy ring symptoms appear. Apply in 2-4 gals. of water, irrigate lightly. Add recommended rate of a wetting agent to the final spray. Re-apply after 28 days.
	<i>azoxystrobin</i> + <i>tebuconazole</i> ZoxyT, Strobe T	11 + 3	0.7-1.5 oz. at 14-28 day intervals	
	<i>hydrogen dioxide</i> TerraCyte Pro Zerotol	NC	2 to 12 fl oz	Curative control may require 2-3 consecutive applications. Drench the soil to saturate root system. Use on 5-10 gals. per 1000 ft ² .
	<i>flutolanil</i> ProStar 70 WG Prostar 70 WP	7	Preventive: 2.2 oz at 21-28 day intervals Curative: 4.5 oz at first sign of activity. Repeat in 30 days. Apply in 10 to 50 gals. water/1000 ft ² .	Use of wetting agent or aerification prior to treatment may improve disease control. Do not treat more than 10,000 ft ² . per acre of turfgrass.
	<i>flutolanil</i> + <i>thiophanate methyl</i> Systar	7 + 1	3-6.12 oz at 21-28 day intervals	
	<i>fluoxastrobin</i> Disarm 480 SC Disarm G Fame SC Fungicide Fame G Fungicide	11	0.36 fl oz at 28 day intervals 0.28-0.36 fl oz at 21-28 day intervals 2.3-4.6 lb at 14-28 days	
	<i>fluoxastrobin</i> + <i>chlorothalonil</i> Disarm C Fame +C	11 + M5	4.5-5.9 oz at 21-28 day intervals	
	<i>fluoxastrobin</i> + <i>myclobutanil</i> Disarm M	11 + 3	0.5-1.0 oz at 21-28 day intervals	
	<i>fluoxastrobin</i> + <i>tebuconazole</i> Fame + T	11 + 3	0.45-0.9 oz. at 21-28 day intervals	
	<i>fluxapyroxad</i> + <i>pyraclostrobin</i> Lexicon	7 + 11	0.47 fl oz at 28 days interval	Apply as soon as possible after fairy ring development. Fairy ring symptoms may take 2-3 weeks to disappear following application. Use 2-4 gallons of spray volume per 1000 sq ft and appropriate soil wetting agent at the time of application. Provide short irrigation cycle directly following treatment to move fungicide through thatch.

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Fairy Ring (continued)	<i>metconazole</i> Tourney	3	0.37 oz.	Apply in 4 gals. water/1000 ft ² . Symptoms may take several weeks to disappear following application. Do not use on bermudagrass.
	<i>pyraclostrobin</i> Insignia Insignia Intrinsic	11	0.5-0.9 oz at 14-28 day intervals	Use as preventative. Begin application when conditions are favorable for fungal infection; prior to disease symptom development.
	<i>pyraclostrobin + boscalid</i> Honor Honor Intrinsic	11 + 7	1.1 oz. at 28 day intervals	
	<i>polyoxin D</i> Affirm Endorse	19	4 oz. in a minimum of 2 gallons at 14 day intervals For Affirm make 2-3 applications of 1 oz. rate at 7 day intervals	Make 2-3 applications. Use a penetrating wetting agent. Water in immediately after treatment.
	<i>tebuconazole</i> Torque ArmorTech Teb360 XL Mirage Stressguard	3	0.6 fl oz 0.6-1.1 fl oz 1.0-2.0 fl oz	Preventative = Apply before fairy ring symptoms appear in the spring when soil temperatures consistently reach 55-60°F. Water into root zone within 4 hrs. Do not tank mix a wetting agent with preventative applications. Curative = Water into root zone within 4 hrs. Use a wetting agent as required for penetration of active hydrophobic soil conditions. A second application after 28 days may be required. Mirage = Apply in late winter/early spring preventatively when mean soil temperatures reach 55-60°F over 5 days a 2 inch depth.
	<i>triadimefon</i> Bayleton 25WP Bayleton 50 Bayleton Flo	3	1-2 oz or fl oz	Apply recommended rate in 2-4 gallons of water in the spring prior to appearance of Fairy Ring symptoms. Before the spray dries, irrigate to wash the fungicide into the thatch/soil where the fungus is active. Repeat application 14 days later. If the 2 ounce rate is used on <i>Poa annua</i> putting greens, extend the intervals to 21 days. For golf and sod. Not to be used on residential or commercial areas.
Fusarium/ Microdochium	<i>azoxystrobin</i> Heritage 50WG, G, TL Strobe, Strobe 50WG, Strobe XL ArmorTech Zoxy	11	0.2-0.4 oz at 14-28 day intervals 4 lbs at 10-28 day intervals 7 lbs single application, For AT Zoxy= 0.37-0.77 oz at 14-28 days	
	<i>azoxystrobin + acibenzolar-s-methyl</i> Heritage Action	11 + P	0.2-0.4 oz. at 14-28 day intervals	
	<i>azoxystrobin + cholorothalonil</i> Renown	11 + M5	2.5-4.5 fl oz at 14-21 day intervals	
	<i>azoxystrobin + difenconazole</i> Briskway	11 + 3	0.5-0.725 fl oz at 14-28 day intervals	
	<i>azoxystrobin + propiconazole</i> Headway	11 + 3	3-5.25 oz at 10-28 day intervals	
	<i>azoxystrobin + tebuconazole</i> ZoxyT Strobe T	11 + 3	0.75-1.5 oz. at 14-21 day intervals	
	<i>bacillus subtilis</i> Strain GB03 Companion	44	4.0-6 fl oz at 14-28 day intervals	

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Fusarium/ Microdochium (continued)	<i>chlorothalonil</i> Chlorothalonil 500ZN, 720SFT, DF Daconil Action Daconil Ultrex Daconil Weatherstik Daconil Zn Echo DF Echo Dyad ETQ Evade Manicure Manicure Ultra Pegasus DFX	M5	5-5.5 oz at 21-28 day intervals	Recent label changes by manufacturers restrict use to commercial turf only. Not to be used on home lawns.
	<i>chlorothalonil + propiconazole + fludioxonil</i> Instrata	M5 + 3 + 12	5-11 fl oz	Late fall
	<i>chlorothalonil + thiophanate methyl</i> Consyst Peregrin Spectro Tee-1-up WDG	M5 + 1	6-8 oz one application 3.72-5.76 at 7-14 day intervals	
	<i>chlorothalonil + thiophanate methyl + iprodione + tebuconazole</i> Enclave	M5 + 1 + 2 + 3	Blight = 3-4 fl oz at 14-21 day intervals Microdochium patch = 7-8 fl oz at 28 day intervals	For Blight make two applications at 14-28 day intervals beginning when disease first appears.
	<i>fenarimol</i> Rubigan AS 11.6	3	Patch = 8 fl oz. Apply 1 or 2 applications Blight = 2 fl oz at 30 day intervals	Use caution on bentgrass at high rate (See label). Irrigate with ½ to 1" of water following application.
	<i>fluzinam</i> Secure	29	0.5 fl oz at a 14 day interval	
	<i>fluopyram + trifloxystrobin</i> Exteris	7+11	4.135-12.6 fl oz	
	<i>fludioxonil</i> Medallion Medallion SC	12	0.5 oz. one application 1-2 fl oz at 7-14 day interval	
	<i>fluoxastrobin</i> Disarm 480 SC Disarm G Fame SC Fungicide Fame G Fungicide	11	0.18 - 0.36 fl oz at 14-28 day intervals 2.3 - 4.6 lbs. at 14 to 21 or 28 day intervals	Begin applications when conditions are favorable for disease development, prior to disease development.
	<i>fluoxastrobin + chlorothalonil</i> Disarm C Fame + C	11 + M5	3 - 5.9 oz. at 28 day intervals	Begin applications when conditions are favorable for disease development, prior to disease development.
	<i>fluoxastrobin + myclobutanil</i> Disarm M	11 + 3	0.25-1.0 oz. at 14-28 day intervals	Begin applications when conditions are favorable for disease development, prior to disease development.
	<i>fluoxastrobin + tebuconazole</i> Fame + T	11 + 3	0.45-0.9 oz. at 21-28 day intervals	
<i>flutolanil + thiophanate methyl</i> Systar	7 + 1	4-6.12 oz. one application		

Supplemental 2(ee) label recommendations may be available for some listed pesticides. It is the end-user's responsibility to consult the manufacturer or websites like www.CDMS.net for additional recommendations

TURF DISEASE CONTROL (continued)				
DISEASE	FUNGICIDE	FRAC	RATES (OZS./1000 ft ²)	REMARKS
Fusarium/ Microdochium (continued)	<i>hydrogen dioxide</i> TerraCyte Pro Zerotol	NC	2-12 fl oz	Treat in early fall to reduce the number of dormant spores. Treat throughout the winter.
	<i>iprodione</i> 18 Plus ArmorTech IP233 Chipco 26GT Chipco 26019 Fungicide X Eclipse ETQ Iprodione Pro 2SE Iprodione SPC Ipro 2SE Raven	2	Blight = 8 fl oz repeat applications at 28 day intervals 1.5-2.0 oz at 14-21 day intervals 3-4 fl oz at 14-28 day intervals	Use only preventative foliar applications when conditions first become favorable for disease development. Not for use in residential areas.
	<i>iprodione + thiophanate methyl</i> 26/36 ArmorTech TMI 2020 Dovetail Lesco twosome TM + IP SPC	2 + 1	1-4 oz at 14-21 day intervals	
	<i>iprodione + trifloxystrobin</i> Interface	2 + 11	5-7 oz at 14-21 day intervals	
	<i>mancozeb + copper hydroxide</i> Junction	M3 + M	2-4 oz. at 7-14 day intervals	
	<i>metconazole</i> Tourney	3	0.37-0.44 oz.	Late fall.
	<i>myclobutanil</i> ArmorTech Myclo 20EW Eagle 20EW Lebanon Eagle G Myclobutanil 20EW T/O	3	0.6- 2.4 oz Myclo 20EW 1.2-2.4 oz	1 application.
	<i>PCNB</i> Engage Penstar Revere Terraclor Turfcide	14	8 oz. in 10-15 gals. water	Caution on Bentgrass for phytotoxicity.
	<i>penthiopyrad</i> Velista	7	0.7 oz only one application	
	<i>polyoxin D</i> Affirm Endorse	19	4 oz. in a minimum of 2 gallons at 14 day intervals. 2.4 lbs/acre at 7-14 day intervals	

Supplemental 2(ee) label recommendations may be available for some listed pesticides. It is the end-user's responsibility to consult the manufacturer or websites like www.CDMS.net for additional recommendations

TURF DISEASE CONTROL (continued)				
DISEASE	FUNGICIDE	FRAC	RATES (OZS./1000 ft ²)	REMARKS
Fusarium/ Microdochium (continued)	<i>propiconazole</i> ArmorTech PPZ143MC Banner Maxx Banner GL Kestrel Monsoon turf Savvi Strider ProPensity 1.3ME Prophesy Propiconazole SPC 14.3 Propicure 3.6F	3	2 to 4 oz	
	<i>pyraclostrobin</i> Insignia Insignia Intrinsic	11	0.5-0.9 oz at 14-28 day intervals	Use as preventative. Begin application when conditions are favorable for fungal infection; prior to disease symptom development.
	<i>pyraclostrobin + boscalid</i> Honor Honor Intrinsic	11 + 7	0.55-1.1 oz at 14-28 day intervals	
	<i>pyraclostrobin + tritconazole</i> Pillar	11 + 3	3.0 lbs at 28 day intervals	Do not make more than 5 applications per year at the use rate of 3.0 lbs. per 1000 ft ² .
	<i>Reynoutria sachalinensis</i> Regalia PTO	P5	1-3 fl oz at 7-14 day intervals	Use in a minimum of 1.5 gal water /1000 ft ² . Begin applications preventatively.
	<i>tebuconazole</i> ArmorTech TEB 360 XL Mirage Stressguard Sipcam Clearscape Sipcam Clearscape ETQ Torque	3	0.6 fl. oz. 1.0-2.0 fl oz	Apply in the fall, before anticipated turf dormancy. If turf breaks dormancy during winter months a second application may be made.
	<i>thiophanate methyl</i> ArmorTech TM462 Cleary's 3336, 3336 DG Lite, 3336 F, 3336 G, 3336 GC, 3336 Plus Cavalier Fungo Systec 1998 T-Bird 4.5L T-Bird 85 WDG T-Storm	1	Patch - 2 oz. Repeat at 5 to 14 day intervals Blight - 4-8 oz. Apply 2 applications at 10-14 day intervals	Water into root zone after application.
	<i>thiram</i> Spotrete F	M3	3 to 12 oz.	
	<i>triadimefon</i> Bayleton 25WP Bayleton 50 Bayleton Flo Fungicide VII Granular turf fungicide Systemic fungicide	3	2 oz. on 15 day intervals or 4 oz. on 30 day intervals Preventive: 1.5 lbs. at 15-30 day intervals Curative: 3 lbs. at 15-30 day intervals Syst. Fung. 0.5-1 oz. at 15-30 day intervals Bayleton 50 and Flo 1-2 oz.	Apply first in mid-June or 30 days prior to time blight normally becomes evident.

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TURF DISEASE CONTROL (continued)				
DISEASE	FUNGICIDE	FRAC	RATES (OZS./1000 ft ²)	REMARKS
Fusarium/ Microdochium (continued)	<i>trifloxystrobin + triadimefon</i> Armada,Tartan	11 +3	2 oz. at 14-28 day intervals 1.2 oz. at 14-28 day intervals	Fall to Early Spring
	<i>triticonazole</i> Trinity Triton	3	0.5-1.0 fl. oz. 0.15-0.3 fl. oz.	
	<i>triticonazole + chlorothalonil</i> Reserve	3 + M5	3.2-4.5 oz. at 10-14 day intervals	
	<i>vinclozolin</i> Curalan Touche	2	2-4 oz. Repeat at 7-21 day intervals	
Gray Leaf Spot (<i>Pyricularia</i>)	<i>azoxystrobin</i> Heritage 50WG, TL, G, Strobe 50 WG, Strobe 2L, ArmorTech Zoxy	11	0.2-0.4 oz. at 14-28 day intervals 2-4 lbs. at 14-28 day intervals	
	<i>azoxystrobin + acibenzolar-s-methyl</i> Heritage Action	11 + P	0.2-0.4 oz. at 14-28 day intervals	
	<i>azoxystrobin + chlorothalonil</i> Renown	11 + M5	2.5-4.5 fl. oz. at 10-14 day intervals	
	<i>azoxystrobin + difenconazole</i> Briskway	11 + 3	0.5-0.725 fl. oz. at 14-21 day intervals	
	<i>azoxystrobin + propiconazole</i> Headway	11 + 3	1.5-3 oz. at 14-28 day intervals	
	<i>azoxystrobin + tebuconazole</i> ZoxyT Strobe T	11 + 3	0.75-1.5 oz. at 14-28 day intervals	
	<i>bacillus subtilis</i> Strain QST713 Rhapsody Sonnet, ArmorTech Sonnet	44	0.5-2.5 fl. oz. at 7-10 day intervals	Apply in sufficient water to provide thorough coverage.2 gals./1000 ft ² .
<i>chlorothalonil</i> Chlorothalonil 500ZN, 720SFT, DF ArmorTech CLT720 ArmorTech CLT825 Chlorstar Daconil 2787 Daconil Action Daconil G Daconil Ultrex Daconil Weatherstik Daconil Zn Docket Echo DF Echo Dyad ETQ Evade Legend Manicure Manicure Ultra Pegasus DFX	M5	Flowable Preventive: 3-6 fl. oz. at 7-10 day intervals Curative: 6-11 fl. oz. at 7-10 day intervals Wettable Powder (WDG90) Preventive: 1.75-3.5 oz. at 7-10 day intervals Curative: 3.5-6.5 oz. at 7-10 day intervals	Recent label changes by manufacturers restrict use to commercial turf only. Not to be used on home lawns.	

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TURF DISEASE CONTROL (continued)				
DISEASE	FUNGICIDE	FRAC	RATES (OZS./1000 ft ²)	REMARKS
Gray Leaf Spot (Pyricularia) (continued)	<i>chlorothalonil + propiconazole</i> Concert Concert II	M5 + 3	3-5.5 fl. oz. at 7-14 day intervals 5.5-8.5 fl. oz. at 14-21 day intervals	
	<i>chlorothalonil + propiconazole + fludioxonil</i> Instrata	M5 + 3 + 12	2.75-6 fl. oz. at 10-14 day intervals	
	<i>chlorothalonil + thiophanate methyl</i> Consys Peregrine Spectro Tee-1-up WDG TM + CTN SPC	M5 + 1	2-8 oz. at 7-14 day intervals 2 -5.76 oz.	
	<i>chlorothalonil + thiophanate methyl + iprodione + tebuconazole</i> Enclave	M5 + 1 + 2 + 3	3-4 fl. oz. at 14-21 day intervals 7-8 fl. oz. at 28 day intervals	Apply when disease first appears. Make additional applications as needed. Allow spray to dry before watering in.
	<i>fluopyram + trifloxystrobin</i> Exteris	7+11	2.135-6.0 fl oz at 14-28 day intervals	
	<i>fluoxastrobin</i> Disarm 480 SC, G Fame SC Fungicide Fame G Fungicide	11	0.18-0.36 fl. oz. at 14-28 day intervals 2.3-4.6 lbs. at 14-21 or 28 day intervals	Begin applications when conditions are favorable for disease development, prior to disease development.
	<i>fluoxastrobin + chlorothalonil</i> Disarm C Fame + C	11 + M5	3-5.9 oz. at 14-28 day intervals	Begin applications when conditions are favorable for disease development, prior to disease development.
	<i>fluoxastrobin + myclobutanil</i> Disarm M	11 + 3	0.25-1.0 oz. at 14 to 28 day intervals	Begin applications when conditions are favorable for disease development, prior to disease development.
	<i>fluoxastrobin + tebuconazole</i> Fame + T	11 + 3	0.45-0.9 oz. at 21-28 day intervals	
	<i>flutolanil + thiophanate methyl</i> Systar	7 + 1	2-3 oz. at 14 day intervals	
	<i>fludioxonil</i> Medallion Medallion SC	12	0.25-0.50 oz. at 14 day intervals 1-2 fl. oz. at 7-14 day interval	
	<i>fluxapyroxad + pyraclostrobin</i> Lexicon	7 + 11	0.34-0.47 fl. oz. at 14 to 28 days interval	
	<i>metconazole</i> Tourney	3	0.37 oz. at 14-21 day intervals	Apply when conditions are favorable for disease development. Do not use on Bermudagrass.
	mineral oil Civitas	NC	8 to 32 oz.	Use only in conjunction with Civitas Harmonizer.
	<i>myclobutanil</i> ArmorTech Myclo 20EW Eagle 20EW Eagle 40WSP Lebanon Eagle G Myclobutanil 20EW T/O	3	1.2- 2.4 oz. Myclo 20EW 1.2-2.4 oz.	1 application.
	<i>polyoxin D</i> Affirm Endorse	19	4 oz. in a minimum of 2 gals. At 14 day intervals 2.4 lbs./acre at 7-14 day intervals	Do not irrigate for 12 hrs. after application.

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TURF DISEASE CONTROL (continued)				
DISEASE	FUNGICIDE	FRAC	RATES (OZS./1000 ft ²)	REMARKS
Gray Leaf Spot (Pyricularia) (continued)	<i>propiconazole</i> ArmorTech PPZ143MC Banner Maxx Banner GL Kestrel Monsoon turf Savvi Spectator Strider ProPensity 1.3ME Prophecy Propiconazole SPC 14.3 Propicure 3.6F	3	2 fl. oz. at 14 day intervals Banner GL individual packets; one packet treats 11,000-22,000 ft ²	
	<i>pyraclostrobin</i> Insignia Insignia Intrinsic	11	0.5-0.9 oz. at 14-28 day intervals	Use as preventative. Begin application when conditions are favorable for fungal infection; prior to disease symptom development.
	<i>pyraclostrobin + boscalid</i> Honor Honor Intrinsic	11 + 7	0.55-1.1 oz. at 14-28 day intervals	
	<i>pyraclostrobin + triticonazole</i> Pillar	11 + 3	3.0 lbs. at 28 day intervals	Do not make more than 5 applications per year at the use rate of 3.0 lbs. per 1000 ft ² .
	<i>Reynoutria sachalinensis</i> Regalia PTO	P5	1-3 fl. oz. at 7-14 day intervals	Use in a minimum of 1.5 gal water /1000 ft. ² Begin applications preventatively.
	<i>tebuconazole</i> ArmorTech TEB360 XL Mirage Stressguard Sipcam Clearscape Sipcam Clearscape ETQ Torque	3	0.6 fl. oz. 1.0-2.0 fl oz at 14-28 day intervals	Apply when conditions are favorable for disease development at 28 day intervals.
	<i>thiophanate methyl</i> ArmorTech TM462 Cavalier Cleary's 3336, 3336 DG Lite, 3336 F, 3336 G, 3336 GC, 3336 Plus Fungo Systec 1998 T-Bird 4.5L T-Bird 85 WDG T-Methyl SPC 4.5 T-Methyl SPC 50 T-Methyl G T-Storm Tee-off 4.5F	1	Preventive: 1 oz/5 gals. water. Apply at 10-14 day intervals as needed Curative: Apply 2 oz/5 gals. water	
	<i>triadimefon</i> Bayleton 25WP Bayleton 50 Bayleton Flo Fungicide VI Granular turf fungicide Systemic fungicide	3	Preventive: 1.5 lbs. at 15-30 day intervals Curative: 3 lbs at 15-30 day intervals Syst. Fung. 0.5-1 oz. At 15-30 day intervals	For golf and sod. Not to be used on residential or commercial areas.
	<i>trifloxystrobin</i> Compass	11	Apply 0.15-0.2 oz. in 1-2 gals. water at 14 day intervals or 0.25 oz. in 1-2 gals water at 21 day intervals.	Apply when conditions are favorable for disease development.

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TURF DISEASE CONTROL (continued)				
DISEASE	FUNGICIDE	FRAC	RATES (OZS./1000 ft ²)	REMARKS
Gray Leaf Spot (Pyricularia) (continued)	<i>trifloxystrobin + triadimefon</i> Armada Tartan	11 + 3	1-2 oz. at 14-28 day intervals 0.6-1.2 oz. at 14-28 day intervals	
	<i>triticonazole + chlorothalonil</i> Reserve	3 + M5	3.2-4.5 oz. at 14-28 day intervals	
Helminthosporium, Curvularia, Leaf Spots, Rusts, Anthracnose	<i>azoxystrobin</i> Heritage 50WG, G, TL Strobe, Strobe 50WG, Strobe 2L, ArmorTech Zoxy	11	0.2-0.4 oz. at 14-28 day intervals 2-4 lbs. at 14-28 day intervals	
	<i>azoxystrobin + acibenzolar-s-methyl</i> Heritage Action	11 + P	0.2-0.4 oz. at 14-28 day intervals	
	<i>azoxystrobin + chlorothalonil</i> Renown	11 + M5	2.5-4.5 oz. at 7-10 day intervals	
	<i>azoxystrobin + difenconazole</i> Briskway	11 + 3	0.3-0.725 fl. oz. at 14-28 day intervals	14 day intervals for anthracnose; 14-28 day intervals for other leaf spots.
	<i>azoxystrobin + propiconazole</i> Headway	11 + 3	0.75-3 oz. at 14-28 day intervals	
	<i>azoxystrobin + tebuconazole</i> ZoxyT Strobe T	11 + 3	0.75-1.5 oz. at 14-28 day intervals	
	<i>Bacillus licheniformis</i> EcoGuard SB 3086	44	Up to 20 oz. at 3-14 day intervals	
	<i>Bacillus subtilis</i> Strain QST713 Rhapsody Sonnet,ArmorTech Sonnet	44	2.0-10 fl. oz. at 7-10 day intervals	Apply in sufficient water to provide thorough coverage. 2 gals. /1000 ft ² are commonly used.
	<i>Bacillus subtilis</i> Strain GB03 Companion	44	4.0-6 fl. oz. 14-28 day intervals	
	<i>chlorothalonil</i> Chlorothalonil 500ZN, 720SFT, DF ArmorTech CLT720 ArmorTech CLT825 Chlorstar Daconil 2787 Daconil Action Daconil G Daconil Ultrex Daconil Weatherstik Daconil Zn Docket Echo DF Echo Dyad ETQ Evade Legend Manicure Manicure Ultra Pegasus DFX	M5	Flowable Preventive: 3-6 fl oz at 7-10 day intervals Curative: 6-11 fl oz at 7-10 day intervals Wettable Powder (WDG90) Preventive: 1.75-3.5 oz at 7-10 day intervals Curative: 3.5-6.5 oz at 7-10 day intervals	Recent label changes by manufacturers restrict use to commercial turf only. Not to be used on home lawns.

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TURF DISEASE CONTROL (continued)				
DISEASE	FUNGICIDE	FRAC	RATES (OZS./1000 ft ²)	REMARKS
Helminthosporium, Curvularia, Leaf Spots, Rusts, Anthracnose (continued)	<i>chlorothalonil + propiconazole</i> Concert Concert II	M5 + 3	3-5.5 fl. oz. at 14-21 day intervals 5.5-8.5 fl. oz. at 14-28 day intervals	
	<i>chlorothalonil + propiconazole + fludioxonil</i> Instrata	M5 + 3 + 12	2.75-6 fl. oz. at 10-21 day intervals	
	<i>chlorothalonil + thiophanate methyl</i> Con Syst Peregrin Spectro Tee-1-up WDG TM + CTN SPC	M5 + 1	2-8 oz. at 7-21 day intervals 2-5.76 oz. at 7-14 day intervals	
	<i>chlorothalonil + thiophanate methyl + iprodione + tebuconazole</i> Enclave	M5 + 1 + 2 + 3	3-4 fl. oz. at 14-21 day intervals For basal anthracnose use 4 fl. oz. at 14 day intervals 7-8 fl. oz. at 28 day intervals	Apply when disease first appears. Make additional applications as needed. Allow spray to dry before watering in.
	<i>fluzinam</i> Secure	29	0.5 fl. oz. at 14 day intervals	Applications should be made prior to infection or when conditions become favorable for disease development.
	<i>fludioxonil</i> Medallion Medallion SC	12	0.25-0.50 oz. at 14-21 day intervals Anthracnose = 1-2 fl. oz. at a 14 day interval Leaf spot = 1-2 fl. oz. at 14-21 day intervals	
	<i>fluopyram + trifloxystrobin</i> Exteris	7+11	Anthracnose = 2.135-6.0 fl oz at 14- 28 day intervals Rust = 1.5-4.135 fl oz	
	<i>fluoxastrobin</i> Disarm 480 SC, G Fame SC Fungicide Fame G Fungicide	11	0.18-0.36 fl oz at 14-28 day intervals 2.3-4.6 lbs at 14-28 day intervals	Begin applications when conditions are favorable for disease development, prior to disease development.
	<i>fluoxastrobin + chlorothalonil</i> Disarm C Fame + C	11 + M5	3-5.9 oz at 14-28 day intervals	Begin applications when conditions are favorable for disease development, prior to disease development.
	<i>fluoxastrobin + myclobutanil</i> Disarm M	11 + 3	0.25-1.0 oz at 14-28 day intervals	Begin applications when conditions are favorable for disease development, prior to disease development.
	<i>fluoxastrobin + tebuconazole</i> Fame + T	11 + 3	0.45-0.9 oz. at 21-28 day intervals	
	<i>flutolanil + thiophanate methyl</i> Systar	7 + 1	2-3 oz at 14 day intervals	
	<i>fluxapyroxad + pyraclostrobin</i> Lexicon	7 + 11	0.34-0.47 fl oz at 14 to 28 days interval	
	<i>hydrogen dioxide</i> TerraCyte Pro Zerotol	NC	6-25 oz	Curative control may require 2-3 consecutive applications. Use on 3-5 gals. per 1000 ft ² .
	<i>iprodione</i> 18 Plus ArmorTech IP233, Chipco 26GT, Chipco 26019, Eclipse ETQ, Iprodione Pro 2SE, Iprodione SPC, Ipro 2SE Fungicide X Raven	2	2-4 fl oz in 2-10 gals water Apply every 14-21 days 2 oz. = 12 tbs 1.5-2.0 oz at 14-21 day intervals 3-4 fl. oz at 14-28 day intervals	Not for use in residential areas.

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TURF DISEASE CONTROL (continued)				
DISEASE	FUNGICIDE	FRAC	RATES (OZS./1000 ft ²)	REMARKS
Helminthosporium, Curvularia, Leaf Spots, Rusts, Anthracnose (continued)	<i>iprodione + thiophanate methyl</i> 6/36 ArmorTech TMI 2020 Dovetail Lesco Twosome TM + IP SPC	2 + 1	1-4 oz at 14-21 day intervals	
	<i>iprodione + trifloxystrobin</i> Interface	2 + 11	5-7 oz at 14-21 day intervals	Anthracnose suppression only.
	<i>mancozeb + copper hydroxide</i> Junction	M3 + M1	2-4 oz at 5 day intervals	
	<i>maneb, maneb + zinc sulfate</i> & <i>mancozeb</i>	M3	4 oz at 10-14 day intervals	
	<i>myclobutanil</i> ArmorTech Myclo 20EW Eagle 20EW Eagle WSP 40 Golden Eagle Lebanon Eagle G Myclobutanil 20EW T/O	3	Preventive: 0.6 oz at 14 day intervals (3 oz. pkt./5000 ft ²)	Do not graze treated areas or feed clippings to livestock.
	<i>metconazole</i> Tourney	3	0.28-0.37 oz at 14-21 day intervals	Apply when conditions are favorable for disease development. Do not use on Bermudagrass.
	<i>mineral oil</i> Civitas	NC	8-32 oz	Use only in conjunction with Civitas Harmonizer.
	<i>PCNB</i> Engage Penstar Revere Terraclor Turfcide, Autilus	14	7-10 oz. in 5-10 gals water at 3-4 week intervals. 5-6 oz. in 1-10 gals water at 7-10 days intervals	
	<i>penthiopyrad</i> Velistra	7	0.3-0.5 oz. at 14 day intervals	Begin applications at early stages of disease development.
	<i>phosphorus acid</i> Fosphite	33	2-3 fl oz	Use only as preventative treatment or when conditions are favorable for disease development.
	<i>polyoxind</i> Affirm Endorse	19	4 oz. in a minimum of 2 gallons at 14 day intervals. 2.4 lbs./acre at 7-14 day intervals	Do not irrigate for 12 hrs after application.
	<i>propiconazole</i> ArmorTech PPZ143MC Banner Maxx Banner GL Kestrel Monsoon turf ProPensity 1.3ME Prophesy Propiconazole SPC 14.3 Propicure 3.6F Savvi Strider	3	1-2 fl oz at 14-28 day intervals Banner GL individual packets; one packet treats 11,000-22,000 ft ²	If anthracnose is present use 2 oz. rate in combination with Daconil or Chipco 26GT. Do not mow or irrigate treated areas until grass is completely dry. Do not use on home lawns. Bermudagrass and St. Augustinegrass can be sensitive to Banner. Do not exceed 2 fl. oz./1000 ft ² every 30 days on any variety of Bermudagrass or St. Augustinegrass. On Bentgrass, do not exceed 1 oz. /1000 ft ² or apply at less than 21 day intervals when temperatures exceed 80°F.

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TURF DISEASE CONTROL (continued)				
DISEASE	FUNGICIDE	FRAC	RATES (OZS./1000 ft ²)	REMARKS
Helminthosporium, Curvularia, Leaf Spots, Rusts, Anthracnose (continued)	<i>pyraclostrobin</i> Insignia Insignia Intrinsic	11	0.5-0.9 oz at 14-28 day intervals	Use as preventative. Begin application when conditions are favorable for fungal infection; prior to disease symptom development.
	<i>pyraclostrobin + boscalid</i> Honor Honor Intrinsic	11 + 7	0.55-1.1 oz at 14-28 day intervals	
	<i>pyraclostrobin + triticonazole</i> Pillar	11 + 3	3.0 lbs at 28 day intervals	Do not make more than 5 applications per year at the use rate of 3.0 lbs. per 1000 ft ² .
	<i>Reynoutria sachalinensis</i> Regalia PTO	P5	1-3 fl oz at 7-14 day intervals	Use in a minimum of 1.5 gal water /1000 ft. ² Begin applications preventatively.
	<i>tebuconazole</i> ArmorTech TEB360 XL Mirage Stressguard Sipcam Clearscape Sipcam Clearscape ETQ Torque	3	0.6 fl oz 1.0-2.0 fl oz at 14-28 day intervals	For prevention, begin applications when conditions are favorable for disease development. Do not make two consecutive applications of Torque fungicide. Alternate with another fungicide with different mode of action. A second application may be made after 28 days.
	<i>thiophanate methy</i> ArmorTech TM462 Cavalier Cleary's 3336, 3336 DG Lite, 3336 F, 3336 G, 3336 GC, 3336 Plus Fungo Systec 1998 T-Bird 4.5L T-Bird 85 WDG T-Methyl SPC 4.5 T-Methyl SPC 50 T-Methyl G T-Storm Tee-off 4.5F	1	Preventive: 1 oz/5 gals water (Anthracnose) Apply every 10-14 day as needed Curative: Apply 2 oz/5 gals water	
	<i>thiram</i> Spotrete F	M3	Preventative: 3 ¾ fl oz at 7-10 day intervals Curative: 7 ½ fl oz at 3-5 day intervals	For best results use spray mix the same day it is prepared. Spray right after mowing or avoid mowing 12 hrs after application.
	<i>trifloxystrobin</i> Compass	11	Preventive: Apply 0.1-0.15 oz. at 14 day intervals Curative: Leaf spot—0.15-0.25 oz. in 1-2 gals. water at 21-28 day intervals Rust— 0.2-0.25 oz. in 1-2 gals. water at 21 day intervals Preventive: Anthracnose - 0.15-0.2 oz at 14 day intervals in 1-2 gals water Curative: 0.25 oz at 21 day intervals in 1-2 gals Water	Apply when conditions are favorable for disease.
	<i>triadimefon</i> Bayleton 50 Bayleton Flo0	3	1.0 oz/fl oz	For Anthracnose; Preventative rate: Apply at 30 day intervals and repeat as necessary for seasonal control. Depending on environmental conditions, residual control may be extended to 45 days. Curative rate: To control existing infections. Subsequent applications should be applied on a preventative schedule and rate. For golf and sod only. Not to be used on residential or commercial areas.

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TURF DISEASE CONTROL (continued)				
DISEASE	FUNGICIDE	FRAC	RATES (OZS./1000 ft ²)	REMARKS
Helminthosporium, Curvularia, Leaf Spots, Rusts, Anthracnose (continued)	<i>trifloxystrobin + triadimefon</i> Armada Tartan	11 + 3	1-2 oz. at 14-28 day intervals 0.6-1.2 oz at 14-28 day intervals	
	<i>triticonazole</i> Trinity Triton	3	0.5-1.0 fl oz at 14-28 day intervals	
	<i>triticonazole + chlorothalonil</i> Reserve	3 + M5	3.2-4.5 oz at 14-28 day intervals	
	<i>vinclozolin</i> Curalan Touche	2	1-2 oz (Helminthosporium) at 14-28 day intervals	
Pythium Blight, Pythium Root Rots, Pythium Root Dysfunction	<i>azoxystrobin</i> Heritage 50WG, G, TL, ArmorTech Zoxy, Strobe 50 WG, Strobe 2L	11	0.4 oz on 10-14 day intervals 2-4 lbs at 10-14 day intervals	
	<i>azoxystrobin + acibenzolar-s-methyl</i> Heritage Action	11 + P	0.2-0.4 oz. at 10-14 day intervals	
	<i>azoxystrobin + propiconazole</i> Headway	11 + 3	3 oz at 10-14 day intervals	
	<i>azoxystrobin + tebuconazole</i> ZoxyT Strobe T	11 + 3	1.5 oz. at 10-14 day intervals	
	<i>bacillus subtilis</i> Strain GB03 Companion	44	4.0-6 fl oz 14-28 day intervals	
	<i>chloroneb</i> Termec SP Terraneb	14	4 oz in 3-5 gals. water 4 oz = 12.5 tbs	
	<i>cyazofamid</i> Segway	21	0.45-0.9 fl oz at 14-21 day intervals	Apply as a preventative treatment at 0.45 to 0.9 fl. oz. in 2 to 4 gals. of water. On established turf apply as a preventative treatment when conditions are favorable for disease development. During periods of prolonged favorable conditions use 0.45 fl. oz. at 14 day intervals, using another fungicide having a different mode of action between applications of Segway. For newly seeded areas use 0.45 fl. oz. in 2-4 gals. water immediately after seeding.
	<i>etridiazole</i> Koban 30WP Terrazole	14	Established Turf: 2-4.5 oz in 5 gals water Newly Seeded Areas: 7-9 oz in 5 gals water 4 oz = 9.5 tbs Terrazole = 2-4.5 oz at 10-14 day intervals	Re-treat in 5-10 days depending on weather conditions. Can cause phytotoxicity on cool season turfgrass in hot weather at low carrier volumes.
	<i>fosetyl AL (Aluminum tris)</i> Alliette 80WP ArmorTech ALT 70 Autograph Chipco Signature Signature Stressguard XTRA Fosetyl-AI 80WDG Prodigy Signature	33	4-8 oz in 1-5 gal water per 1000 ft ² at 14-21 day intervals ALT 70 = 4.6-9.2 oz	Do not mow and/or water treated areas until foliage is completely dry. Begin preventive applications when conditions first favor disease and repeat as recommended 4-8 oz. at 14-21 day intervals.
<i>fluoxastrobin</i> Disarm 480 SC Fame SC Fungicide Fame G Fungicide	11	0.18 to 0.36 fl oz at 7-14 day intervals	Begin applications when conditions are favorable for disease development, prior to disease development. When conditions are conducive for heavy Pythium infections use Disarm in combination with another product labeled for Pythium control.	

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TURF DISEASE CONTROL (continued)				
DISEASE	FUNGICIDE	FRAC	RATES (OZS./1000 ft ²)	REMARKS
Pythium Blight, Pythium Root Rots, Pythium Root Dysfunction (continued)	<i>flouxastobin + chlorothalonil</i> Disarm C Fame + C	11 + M5	3-5.9 oz at 7-14 day intervals	
	<i>flouxastobin + myclobutanil</i> Disarm M	11 + 3	0.25-1.0 oz at 14 day intervals	Use preventatively.
	<i>fluoxastrobin + tebuconazole</i> Fame + T	11 + 3	0.45-0.9 oz. at 21 day intervals	
	<i>fluxapyroxad + pyraclostrobin</i> Lexicon	7 + 11	0.34-0.47 fl oz at 14 to 28 days interval	Use preventatively.
	<i>hydrogen dioxide</i> TerraCyte Pro Zerotol	NC	6-12 oz at 7 day intervals	Curative control may require 2-3 consecutive applications. Use on 3-5 gals. per 1000 ft ² .
	<i>mefenoxam</i> Mefenoxam 2AQ Subdue Subdue G Subdue Maxx	4	Established Turf: 2X WSP: 5-25 oz Maxx: 0.5-1 fl oz in 1-5 gals of water Newly Seeded Areas: 2X WSP: 0.11-0.56 oz in 1-5 gals of water Maxx: 0.5-1 fl oz in 1-5 gals of water	Re-treat at 10-14 day intervals depending on disease pressure and weather conditions. Apply immediately after seeding and irrigate with ¼ to ½” water. Repeat application at 7-14 day intervals if conditions remain favorable for disease.
	<i>mancozeb + copper hydroxide</i> Junction	M3 + M1	2-4 oz at 5 day intervals	
	<i>phosphorous acid</i> Alude Fiata-Stressguard Fosphite Jetphiter	33	5-10 fl oz at 7-14 day intervals Fosphite = 2-3 fl oz Jetphiter = 3.5 to 5 fl oz	Apply recommended quantity of product in 1 to 5 gals. of water. Do not irrigate or mow treated areas until spray has completely dried.
	<i>phosphate</i> Appear Magellan Phostrol Vital	33	4.1 fl. oz. at 14 day intervals 8.2 fl. oz. at 21 day intervals Appear = P. blight 3-4 fl oz at 7-14 day intervals. P. root and crown/damping 6-8 fl oz at 7-14 day intervals.	Do not irrigate or mow treated areas until spray has completely dried. Begin preventative applications when conditions first favor disease.
	<i>propamocarb</i> Banol Lesco Banol Proplant	28	Preventative: 1.25-2 fl oz in 2-5 gals water Curative: 3-4 fl oz in 2-5 gals water	Established Turf: Apply as a preventative treatment during periods of high temperature and humidity. Overseeded Areas: Apply after germination. Repeat at 7-21 day intervals if favorable disease conditions persist.
	<i>propamocarb + fluopicolide</i> Stellar	28 + 43	1.2 fl oz	The maximum Stellar application rate is 2.4 oz. per year per 1000 ft ² . Overseeded Turf: Apply after seed germination to prevent Pythium damping off. Established Turf: Apply when conditions are favorable for disease development.
	<i>pyraclostrobin</i> Insignia Insignia Intrinsic	11	0.5-0.9 oz at 14-28 day intervals	Use as preventative. Begin application when conditions are favorable for fungal infection; prior to disease symptom development.
	<i>pyraclostrobin + boscalid</i> Honor Honor Intrinsic	11 + 7	Dysfunction = 1.1 oz at 14-28 day intervals Blight = 1.1 oz at 10-14 day intervals	
<i>pyraclostrobin + triticonazole</i> Pillar	11 + 3	3.0 lbs at 28 day intervals	Do not make more than 5 applications per year at the use rate of 3.0 lbs. per 1000 ft ² .	

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TURF DISEASE CONTROL (continued)				
DISEASE	FUNGICIDE	FRAC	RATES (OZS./1000 ft ²)	REMARKS
Pythium Blight, Pythium Root Rots, Pythium Root Dysfunction (continued)	<i>Reynoutria sachalinensis</i> Regalia PTO	P5	1-3 fl oz at 7-14 day intervals	Use in a minimum of 1.5 gal water /1000 ft. ² Begin applications preventatively.
Spring Dead Spot (<i>Ophiosphaerella korrae</i> , <i>Ophiosphaerella narmari</i> , <i>Ophiosphaerella herpotricha</i>)	<i>azoxystrobin</i> Heritage 50 WG, TL ArmorTech Zoxy, Strobe 50WG, Strobe 2L	11	0.4 oz at 28 day intervals 0.38-0.77 at 28 days intervals	Make 1 or 2 applications in fall or when conditions are favorable for disease development.
	<i>azoxystrobin + acibenzolar-S-Meth</i> Heritage Action	11 + P	0.4 oz at 28 day intervals 0.2-0.4 oz. at 14-28 day intervals	
	<i>azoxystrobin + propiconazole</i> Headway	11 + 3	3 oz at 14 to 28 day intervals	
	<i>azoxystrobin + tebuconazole</i> ZoxyT Strobe T	11 + 3	1.5 oz. at 14-28 day intervals	
	<i>chlorothalonil + thiophanate methyl + iprodione + tebuconazole</i> Enclave	M5 + 1 + 2 + 3	3-4 fl oz at 14-21 day intervals 7- 8 fl oz at 28 day intervals	Apply when disease first appears. Make additional applications as needed. Allow spray to dry before watering in.
	<i>fenarimol</i> Rubigan A.S.	3	4 oz. in September or 6 oz. in October or November and irrigated with ½ to 1" of water	
	<i>fluoxastrobin</i> Disarm 480 SC, G Fame SC Fungicide Fame G Fungicide	11	0.36 fl oz at 28 day intervals 2.3 to 4.6 lbs at 14-28 day intervals	Begin applications before disease is present and continue applications while conditions for disease development are present. Make two applications 28 days apart during spring or fall.
	<i>fluoxastrobin + chlorothalonil</i> Disarm C Fame + C	11 + M5	5.9 oz at 14-28 day intervals	
	<i>fluoxastrobin + myclobutanil</i> Disarm M	11 + 3	0.5-1.0 oz at 14-28 day intervals	Apply 1 or 2 applications approximately one month prior to Bermudagrass dormancy. ¼-½ inch of irrigation after application is recommended. Re-apply 14-28 days later.
	<i>fluoxastrobin + tebuconazole</i> Fame + T	11 + 3	0.45-0.9 oz. at 21-28 day intervals	
	<i>myclobutanil</i> ArmorTech Myclo 20EW Eagle 20EW Eagle WSP 40 Golden Eagle	3	2.4 fl oz at 28 day intervals	Make 1 to 2 applications in the fall before turfgrass dormancy. Make a second application one month later.
<i>propiconazole</i> ArmorTech PPZ143MC Banner Maxx Banner GL Kestrel Monsoon turf ProPensity 1.3ME Prophesy Propiconazole SPC 14.3 Savvi Spectator Strider Propicure 3.6F	3	4 oz at 30 day intervals Banner GL individual packets; one packet treats 11,000-22,000 ft ²	Make 1-3 applications. For one application apply in September or October. For multiple applications, begin sprays in August.	

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TURF DISEASE CONTROL (continued)				
DISEASE	FUNGICIDE	FRAC	RATES (OZS./1000 ft ²)	REMARKS
Spring Dead Spot (<i>Ophiosphaerella korrae</i> , <i>Ophiosphaerella narmari</i> , <i>Ophiosphaerella herpotricha</i>) (continued)	<i>tebuconazole</i> ArmorTech TEB360 XL Mirage Stressguard Sipcam Clearscape Sipcam Clearscape ETQ Torque	3	0.6 fl oz 2.0 fl oz at 28 day intervals	For prevention, apply in fall when soil temperatures reach 65°F and again in spring under similar temperature conditions or after dormancy break. Begin applications preventatively when soil temperatures drop below 70°F at 2 inch soil depth in the fall.
	<i>thiophanate methy</i> ArmorTech TM462 Cavalier Cleary's 3336, 3336 DG Lite, 3336 F, 3336 G, 3336 GC Fungo Systec 1998 T-Methyl SPC 4.5 T-Methyl SPC 50 T-Methyl G	1	4-6 oz at 14 day intervals TM 462 3.5-5.3 oz	
Take all patch/root rot (<i>Gaeumannomyces graminis</i>)	<i>azoxystrobin</i> Heritage 50 WG, G, ArmorTech Zoxy, Strobe 50WG, Strobe 2L	11	0.4 oz at 28 day intervals 2-4 lbs at 28 day intervals 0.38-0.77 oz at 28 day intervals	Make 1 or 2 applications in fall or when conditions are favorable for disease development.
Bermuda Decline (see fungicide labels for specific <i>Gaeumannomyces</i> species/disease)	<i>Azoxystrobin + Acibenzolar-S-Methy</i> Heritage Action	11 + P	0.2-0.4 oz. at 28 day intervals	
	<i>azoxystrobin + difenconazole</i> Briskway	11 + 3	0.5-0.725 fl oz at 28 day intervals	Begin applications prior to disease development. Make two applications in the spring and two applications 28 days apart in the fall.
	<i>azoxystrobin + propiconazole</i> Headway	11 + 3	3 oz at 14-28 day intervals	
	<i>azoxystrobin + tebuconazole</i> ZoxyT	11 + 3	1.5 oz. at 14-28 day intervals	
	<i>fenarimol</i> Rubigan A.S.	3	4 oz. in September or 6 oz in October or November and irrigated with ½ to 1" of water	
	<i>fluoxastrobin</i> Disarm 480 SC, G Fame SC Fungicide Fame G Fungicide	11	0.36 fl oz at 14 day intervals 0.36 fl oz at 28 day intervals 2.3-4.6 oz at 14-28 days intervals	Apply 1-2 applications approximately one month before turfgrass dormancy. ¼ to ½" of direct irrigation is recommended after application.
	<i>fluoxastrobin + chlorothalonil</i> Disarm C Fame + C	11 + M5	5.9 oz at 28 day intervals	
	<i>fluoxastrobin + myclobutanil</i> Disarm M	11 + 3	0.5-1.0 at 28 day intervals	
	<i>fluoxastrobin + tebuconazole</i> Fame + T	11 + 3	0.45-0.9 oz. at 21-28 day intervals	
	<i>hydrogen dioxide</i> TerraCyte Pro Zerotol	NC	6-12 oz at 7 day intervals	Curative control may require 2-3 consecutive applications. Use on 3-5 gals. per 1000 ft ² .
<i>fluxapyroxad + pyraclostrobin</i> Lexicon	7 + 11	0.47 fl oz at 28 days interval	Use preventively. Begin applications when conditions are favorable for fungal infection, prior to disease symptom development. Make 1 or 2 applications in the fall, 28 days apart, followed by 1 or 2 applications in the spring, 28 days apart. DO Not exceed 3 applications in a 12 month period.	

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TURF DISEASE CONTROL (continued)				
DISEASE	FUNGICIDE	FRAC	RATES (OZS./1000 ft ²)	REMARKS
Take all patch/root rot (<i>Gaeumannomyces graminis</i>) Bermuda Decline (see fungicide labels for specific <i>Gaeumannomyces</i> species/disease (continued))	<i>myclobutanil</i> Eagle 40WSP	3	1.2-2.4 oz at 28 day intervals (spring and fall)	
	<i>propiconazole</i> ArmorTech PPZ143MC Banner GL Banner Maxx Kestrel Monsoon turf ProPensity 1.3ME Prophesy Propiconazole SPC 14.3 Savvi Spectator Strider Propicure 3.6F	3	4 oz at 30 day intervals. Banner GL individual packets; one packet treats 11,000-22,000 ft ²	Make 1-3 applications. For one application apply in September or October. For multiple applications, begin sprays in August.
	<i>pyraclostrobin</i> Insignia Insignia Intrinsic	11	0.5-0.9 oz at 14-28 day intervals	Use as preventative. Begin application when conditions are favorable for fungal infection; prior to disease symptom development.
	<i>pyraclostrobin + boscalid</i> Honor Honor Intrinsic	11 + 7	Bermudagrass decline 1.1 oz Take All Patch = 1.1 oz at 28 day intervals	Bermudagrass decline = Make one application in the spring following green-up and a second application in the fall when air temperatures remain above 80°F and humidity is 75% or higher. Apply in 4 gallons of water per 1000ft ² .
	<i>pyraclostrobin + triticonazole</i> Pillar	11 + 3	3.0 lbs. at 28 day intervals	Do not make more than 5 applications per year at the use rate of 3.0 lbs. per 1000 ft ² .
	<i>Reynoutria sachalinensis</i> Regalia PTO	P5	1-3 fl. oz. at 7-14 day intervals	Use in a minimum of 1.5 gal water /1000 ft ² . Begin applications preventatively.
	<i>tebuconazole</i> ArmorTech TEB360 XI, Mirage Stressguard, Sipcam Clearscape Sipcam Clearscape ETQ Torque	3	0.6 fl oz 2.0 fl oz at 28 day intervals	Bermudagrass decline = Irrigate the area with sufficient water to move fungicide into crown and root zone of the turf. Take All Patch = For prevention, apply in fall when soil temperatures reach 65°F and again in spring under similar temperature conditions Apply preventatively in the fall and spring.
	<i>trifloxystrobin + triadimefon</i> Tartan	11 + 3	For take all patch=1.5-2 oz at 28 day intervals	
	<i>thiophanate methyl</i> Cavalier Cleary's 3336, 3336 DG Lite, 3336 F, 3336 G, 3336 GC, 3336 Plus, Fungo Systec 1998 T-Methyl SPC 4.5 T-Methyl SPC 50 T-Methyl G	1	4-6 oz at 14 day intervals	

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TURF DISEASE CONTROL (continued)				
DISEASE	FUNGICIDE	FRAC	RATES (OZS./1000 ft ²)	REMARKS
Take all patch/root rot (<i>Gaeumannomyces graminis</i>) Bermuda Decline (see fungicide labels for specific <i>Gaeumannomyces</i> species/disease (continued))	<i>triadimefon</i> Bayleton 25WP Bayleton 50 Bayleton Flo Granular turf fungicide Systemic fungicide	3	Preventative = 2 oz. start sprays 2-4 weeks before symptoms reappear. Re-apply every 3-4 weeks Curative = 4 oz make 1-2 sprays on a 2-3 week intervals followed by the preventative rate at 3-4 week intervals	Apply 2 to 4 gallons of spray volume per 1,000 ft ² . Thoroughly water after each application. 50 and Flo; Immediately after the fungicide is applied, the area should be thoroughly irrigated to move the active ingredient down into the crown and root zone of the turf. The amount of water is dependent on the depth of the root zone. The objective is to water the fungicide into the crown and root zone. For golf and sod only. Not to be used on residential or commercial areas.
	<i>triticonazole</i> Trinity Triton	3	0.5-1.0 fl oz at 14-28 day intervals	Make 1 or 2 fall applications (September and October) and 1 or 2 spring applications (April and May) depending on local conditions.
	<i>triticonazole</i> + <i>chlorothalonil</i> Reserve	3 + M5	Take All Patch = 3.2 to 4.5 oz at 14 to 28 day intervals	Begin fungicide applications preventatively in the fall and repeat in the spring. Make 1 to 2 applications depending on local disease conditions, repeat under active disease conditions as needed.

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FUNGICIDES SOLD AS PRE-PACKED MIXTURES

ACTIVE INGREDIENTS	PRODUCT NAMES
azoxystrobin + propiconazole	Headway
azoxystrobin + chlorothalonil	Renown
azoxystrobin + difenconazole	Briskway
copper hydroxyde + mancozeb	Junction
chlorothalonil + propiconazole	Concert, Concert II
chlorothalonil + tebuconazole	E-Scape ETQ
chlorothalonil + fludioxonil + propiconazole	Instrata
chlorothalonil + thiophanate methyl + iprodione + tebuconazole	Enclave
chlorothalonil + acibenzolar-S-methyl	Daconil Action
fluopyram + trifloxastrobin	Exteris
fluoxastrobin + chlorothalonil	Disarm C, Fame + C
fluoxastrobin + miclobutanil	Disarm M
Fluoxastrobin + tebuconazole	Fame + T
fluxapyroxad + pyraclostrobin	Lexicon (Lexicon Intrinsic)
iprodione + thiophanate methyl	26/36 Fungicide, ArmorTech TMI 2020, Dovetail, Lesco twosome, TM + IP SPC
iprodione + trifloxystrobin	Interface
myclobutanil + mancozeb	MANhandle
pyraclostrobin + boscalid	Honor, Honor Intrinsic
pyraclostrobin + triticonazole	Pillar
thiophanate methyl + chlorothalonil	Broadcide, ConSyst, Peregrine, Spectro, Tee-1-up WDG, TM + CTN SPC
thiophanate methyl + flutolanil	Systar
thiophanate methyl + mancozeb	Duosan
thiophanate methyl + thiram	Bromosan
triadimefon + flutolanil	Prostar plus
triadimefon + trifloxystrobin	Armada 50WGD, Armada 50WP, Tartan
triticonazole + chlorothalonil	Reserve

See labels for rates and specific recommendations