



IPM-1291

Commercial Turf and Lawns

Alabama Pest Management Handbook for 2021



Disease and Nematode Control Recommendations

Table 1. Commercial Turf and Lawns: Disease and Nematode Control

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
ALGAE		
chlorothalonil		Apply at 7- to 14-day intervals in 2 to 10 gallons of water per 1000 square feet as needed. See label for additional instructions. DO NOT use on residential lawns.
CHLOROTHALONIL 720	2-3.6 fl.oz.	
DACONIL WEATHER STIK	2-3.6 fl.oz.	
DACONIL ULTREX	1.8-5.03 oz.	
DOCKET DF	1-5.03 fl.oz.	
DOCKET WS	2-3.6 fl.oz.	
ECHO DYAD	3-8 fl.oz.	
ECHO 720	2-3.6 fl.oz.	
ECHO ULTIMATE ETQ	1.8-3.25 oz	
ECHO ZN	3-5 fl.oz.	
ENSIGN 82.5%	1.8-5 fl.oz.	
INITAITE 720	2.1-3.5 fl.oz.	
PEGASUS DFX	1.82-3.25 oz.	
PREVIA	2-5.5 fl.oz.	
chlorothalonil + acibenzolar S-methyl		Apply as needed at 7- to 14-day intervals in 1 gallon of water per 1000 square feet of turf. When algae is well established, attempt to dry out the afflicted area and apply at the 4-5.4 fl.oz. See label for use guidelines for golf course greens, tees, and fairways.
DACONIL ACTION	2-3.5 fl.oz.	
chlorothalonil + azoxystrobin		For suppression of algae, apply at 10- to 14-day intervals as needed. When algae is well established, dry out affected area. Once dry, manage to enhance turfgrass recovery in conjunction with Renown treatments.
RENOWN	2.5-4 fl.oz.	
chlorothalonil + propiconazole		Apply preparatively at 3-5.5 fl.oz. in 7- to 14-day intervals when conditions as are favorable for disease development. May also be applied at 5.5-8.3 fl.oz. per 1000 square feet in 14- to 28-day intervals. DO NOT use on residential lawns.
CONCERT II	3-8.3 fl.oz.	
fluxapyroxad		Apply at 14- to 28-day intervals. Tank-mix with another fungicide labeled for algae control. DO NOT make more than two sequential applications before alternating with a non-group 7 fungicide.
XZEMPLAR	0.21-0.26 fl.oz	

¹ Fungicide products are registered for use on residential lawns except as specified in comments.

Table 1. Commercial Turf and Lawns: Disease and Nematode Control (cont.)

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
ALGAE (cont.)		
mancozeb		
DITHANE F45 RAINSHIELD	6.4 fl.oz.	Apply as needed in 10-day intervals to affected areas. For professional use only. See label for additional instructions. DO NOT use on residential lawns.
DITHANE 75DF RAINSHIELD	6 oz.	
FORE 80W P RAINSHIELD	6 oz.	
KOVERALL	6 oz.	
MANZATE PRO STICK	6 oz.	
MANZATE PRO STICK T&O	6 oz.	
PENCOZEB 75DF	6 oz.	
PROTECT DF	6 oz.	
ROPER DF	6 oz.	
ROPERDF RAINSHIELD	6 oz.	
triticonazole		
TRINITY	0.5-1 fl.oz.	For curative control add chlorothalonil or mancozeb to tank mixture. Repeat as needed at 14- to 28-day intervals.
ANTHRACNOSE		
azoxystrobin		
AZTEROID FC	0.5-1 fl.oz.	Apply at 14- to 28-day intervals in 2 to 4 gallons of water per 1000 square feet when conditions favor disease. Use the higher rate at the shortest interval when disease is present. DO NOT apply more than six times or 3.7 ounces per year.
AZTEROID FC 3.3	0.24-0.48 fl.oz.	
DEXTER SC	0.38-0.77 fl.oz.	
HERITAGE TL	1-2 fl.oz.	
HERITAGE G	2-4 lb.	
HERITAGE FUNGICIDE	0.2-0.4 oz.	
TETRABAN.	0.38-0.77 fl.oz.	
azoxystrobin + acibenzolar-s-methyl		
HERITAGE ACTION	0.2-0.4 oz.	DO NOT apply on residential lawns or when conditions favor drift from targeted areas. Apply at 14- to 28-day intervals when conditions favor disease development.
azoxystrobin + difenoconazole		
BRISKWAY	0.3-0.725 fl.oz.	Use preventively and begin applications when conditions favor disease development at 14-day intervals
azoxystrobin + propiconazole		
HEADWAY	1.5-3 fl.oz.	Use preventively. Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed at a rate of 2 to 4 gallons of water per 1000 square feet of turf. Use higher rate at shorter interval when disease pressure is high.
HEADWAY G	2-4 lb.	Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed. Alternate applications with Daconil. Use higher rate at shorter interval when disease pressure is high.
chlorothalonil		
CHLOROTHALONIL 720	3-5.5 fl.oz.	Bentgrass Tees, Greens, Fairways: Apply to tees and greens at 7-to 14-day intervals in 2 to 10 gallons of water per 1000 square feet. Use 0.8 to 1 gallon water per 1000 square feet on fairways. DO NOT use on residential lawns.
DACONIL ULTREX	2.75-5.03 oz.	
DACONIL WEATHER STIK	3-5.5 fl.oz.	
DOCKET DF	2.75-5.03 oz.	
DOCKET WS	3-5.5 fl.oz.	
ECHO DYAD	5 or 8 fl.oz.	
ECHO ULTIMATE ETQ	3.25-5 fl.oz.	
ECHO 720	3.6-5.5 fl.oz.	
ECHO ZN	5-8 fl.oz.	
ENSIGN 720 FLOWABLE	3-5.4 fl.oz.	
ENSIGN 82.5%	2.75-5 fl.oz.	
EQUUS 720 SST	8.12-9.66 pts/A	
INITIATE 720	3-9.7 pts/A	
PEGASUS DFX	3.25 or 5 oz.	
PRAIZ.	3-5.5 fl.oz.	
PREVIA	3-5.5 fl.oz.	

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Table 1. Commercial Turf and Lawns: Disease and Nematode Control (cont.)

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
ANTHRACNOSE (cont.)		
chlorothalonil + acibenzolar S-methyl DACONIL ACTION	3-5.4 fl.oz.	Apply before symptoms appear and when conditions favor disease. Repeat at 7- to 14-day intervals in 1 gallon of water per 1000 square feet of turf. See label for use guidelines for golf course greens, tees, and fairways.
chlorothalonil + azoxystrobin RENOWN	2.5-4 fl.oz.	Use preventively. Begin applications when conditions favor disease and prior to disease symptoms development. Apply at high rate (4 fl.oz.) at 14- to 21-day intervals. Apply low rate (2.5 fl.oz.) at 7- to 10-day intervals. DO NOT exceed 14-day treatment interval on golf greens.
chlorothalonil + propiconazole CONCERT II	4.5-8.3 fl.oz.	Use preventively. Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed at a rate of 1 gallon of water per 1000 square feet of turf. Use higher rate at shorter interval when disease pressure is high. Not for use in residential landscapes.
chlorothalonil + propiconazole + fludioxonil INSTRATA	2.75-6.0 fl.oz.	Use as preventive treatment. Begin applications when conditions favor disease and repeat as needed every 14 to 28 days. Use higher rate at shorter interval under high disease pressure.
chlorothalonil + tebuconazole E-SCAPE ETQ	2.57-4.71 fl.oz.	Golf Course Turf: Apply when conditions favor disease and repeat at 28-day intervals as needed in 1 to 3 gallons of water per 1000 square feet. Up to five applications may be made per year. DO NOT make two consecutive applications of E-Scape ETQ. Alternate with another fungicide with a different mode of action.
chlorothalonil + thiophanate-methyl SPECTRO 90 WDG	3-5.76 oz.	Golf Courses, Sod Farms, Commercial and Institutional Grounds: Apply in 2 to 4 gallons of water per 1000 square feet every 7 to 14 days as needed. See label for additional instructions.
fenarimol RUBIGAN AS	1.75-3.5 fl.oz.	Begin sprays before symptoms appear; apply at 30-day intervals as long as conditions favor disease.
fluazinam DETOUR 4 SC	0.5 fl.oz.	DO NOT use on residential lawns. Applications should be made prior to disease development at 14-day intervals. This product can be tank mixed or alternated with other products labeled for control of anthracnose.
SECURE	0.5 fl.oz.	
fluazinam + acibenzolar-S-methyl SECURE ACTION	0.5 fl. oz	Apply prior to infection at 14-day intervals. Rotate or tank-mix with another fungicide for Anthracnose disease prevention. See label for more details. DO NOT apply Secure Action to residential turf.
fluazinam + tebuconazole TRACTION	1.3 fl.oz.	For use on golf course turf only. Apply preventively at 14-day intervals. This product should be tank mixed with another labeled fungicide such as Affirm.
fludioxonil MEDALLION SC	1-2 fl.oz.	Begin applications before disease symptoms are seen. Repeat applications at 14-day intervals. For best results, use as part of comprehensive preventive control program.
fluoryram + trifloxystrobin EXTERIS STRESSGARD	2.1-6 fl.oz.	Apply preventively when conditions favor disease development and at 14- to 28-day intervals. Under high disease pressure or for early curative application, use the higher rate and shorter interval.
fluoxastrobin DISARM G	2.3-4.6 lb.	Use preventively. Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed at a rate of 1 gallon of water per 1000 square feet of turf. Use higher rate at shorter interval when disease pressure is high. May be applied to residential turf by a certified applicator.

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Table 1. Commercial Turf and Lawns: Disease and Nematode Control (cont.)

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
ANTHRACNOSE (cont.)		
fluoastrobin + chlorothalonil DISARM C	3-5.9 oz.	Foliar Blight on Bentgrass: Begin applications when conditions favor disease and repeat as needed every 14 to 28 days. Apply in 1 to 4 gallons per 1000 square feet of turf area.
	3-5.9 oz.	Crown Rot on Bentgrass: Tank mix with another fungicide labeled for anthracnose control. Begin applications when conditions favor disease and repeat as needed every 14 to 28 days. Apply in 1 to 4 gallons per 1000 square feet of turf area.
fluoastrobin + myclobutanil DISARM M	0.25-1 fl.oz.	Use preventively. Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed. Use higher rate at shorter interval when disease pressure is high. May be applied to residential turf by a certified applicator.
fluxapyroxad + pyraclostrobin LEXICON INTRINSIC	0.34-0.47 fl.oz.	Apply preventively at 14- to 28-day intervals when conditions favor disease development. DO NOT make more than 2 sequential applications of this fungicide.
iprodione + thiophanate-methyl 26/36 FUNGICIDE	1-4 fl.oz.	Golf and Institutional Turf: Apply when conditions favor disease and repeat at 14- to 21-day intervals as needed. Use higher rate at shorter interval when disease pressure is high. Not for home lawn use.
mefentrifluconazole MAXTIMA	0.4-0.6 fl.oz.	Use preventively. Apply at 14-day intervals in 1 to 4 gallons of water per 1000 square feet of turf. For maximum efficacy under heavy disease pressure or on higher cuts, apply 2 to 4 gallons of water per 1000 square feet of turf. DO NOT apply on residential lawns or athletic turf.
metconazole TOURNEY	0.28-0.37 fl.oz.	Use preventively. Apply when conditions favor disease and repeat applications at 14- to 21-day intervals as needed. Use higher rate at shorter interval when disease pressure is high.
myclobutanil EAGLE 20EW	1.2 fl.oz.	Apply in summer at 14- to 21-day intervals when conditions favor disease.
penthiopyrad VELISTA	0.3-0.5 oz.	Begin applications at the early stages of disease development. Apply at 14-day intervals. Use high rate for high disease pressure or for curative situations. This product performs best when applied preventively.
polyoxin D zinc salt AFFIRM WDG	0.9 oz.	Residential Lawns, Golf Courses, Commercial and Institutional Lawns: Begin applications when conditions favor disease development and before symptoms are seen. Repeat applications at 7- to 14-day intervals. Shorten the application interval when disease is present. Apply in at least 1 gallon of water per 1000 square feet. See label for resistance management recommendations and list of target turfgrasses.
propiconazole BANNER MAXX II	1-2 fl.oz.	Apply at 14- to 28-day intervals. Use higher rate at shorter interval when disease pressure is high.
BUMPER ES	0.37-0.73 fl.oz.	
PROPICONAZOLE SPC 14.3MEC	1-2 fl.oz.	
PROPICONAZOLE 41.8% EC	0.37-0.73 fl.oz.	
PROPICONAZOLE 1.3 ME T&O	1-2 fl.oz.	
PROPIMAX EC	0.37-0.73 fl.oz.	
STRIDER	1-2 fl.oz.	
pyraclostrobin INSIGNIA	0.5 - 0.9 oz.	Begin applications when conditions favor disease development and before symptoms are seen. Repeat at 14- to 28-day intervals. Apply in 2 to 4 gallons of water per 1000 square feet. See label for resistance management recommendations.
INSIGNIA SC INTRINSIC	0.4-0.7 fl.oz.	Use preventively. Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed. Use higher rate at shorter interval when disease pressure is high.

¹ Fungicide products are registered for use on residential lawns except as specified in comments.

Table 1. Commercial Turf and Lawns: Disease and Nematode Control (cont.)

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
ANTHRACNOSE (cont.)		
pyraclostrobin + boscalid HONOR INTRINSIC	0.55-1.1 oz.	Golf Course Turf: Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed.
pyraclostrobin + triticonazole PILLAR G PILLAR G INTRINSIC	3 lb. 3 lb.	Use preventively. Begin applications when conditions favor disease and prior to disease symptoms development. Repeat at 14- to 28-day intervals. Do not make more than five applications of Pillar G per year.
tebuconazole CLEARSCAPE ETQ TORQUE	0.6-1.1 fl.oz. 0.6-1.1 fl.oz.	Golf Course Turf: Apply when conditions favor disease and before symptoms appear. Alternate applications of Torque with another fungicide with a different mode of action. A second application may be made after 21 days. Torque is a Group 3 triazole fungicide.
thiophanate-methyl 3336 DG LITE 3336 EG 3336 F 3336 WP INCOGNITO 85 WDG TEE-OFF 4.5E T-METHYL SPC 4.5 F T-METHYL SPC 50 WSB	3-9 lb. 2-6 oz. 2-6 fl.oz. 2-6 oz. 1.2-3.6 oz. 2-3.5 fl.oz. 2-5.33 fl.oz. 2-6 oz.	Apply when disease first appears and repeat at 7- to 14-day intervals as needed. Allow spray to dry before watering. Use higher rate at shorter intervals for curative control. See label for recommendation on product rotations and/or tank mix combinations.
triadimefon BAYLETON 50 BAYLETON FLO	1 oz. 1 fl.oz.	For summer disease on bentgrass greens. Apply Bayleton at 30-day intervals in 2 to 4 gallons of water per 1000 square feet when conditions favor disease. Apply Granular Turf Fungicide at 30-day intervals. See label for spreader settings. May be applied to residential lawns by a certified applicator.
trifloxystrobin COMPASS 50WDG	0.15-0.25 oz.	Apply every 14 to 21 days when conditions favor disease. Use higher rate for curative control. May be tank mixed with Bayleton 50 to control dollar spot.
trifloxystrobin + triadimefon ARMADA 50 WDG ARMADA 50 WP, TARTAN TARTAN STRESSGARD	0.6-1.5 oz. 0.6-1.5 oz 1-2 fl.oz. 1-2 fl.oz.	Apply at 14- to 28-day intervals in 1 to 2 gallons of water per 1000 square feet when conditions favor disease development.
triticonazole TRINITY	0.5-1 fl.oz.	Apply preventively when conditions are favorable for disease development. Continue as needed at 14- to 28-day intervals. Under conditions for severe disease or for an early curative application, apply the higher rate at a shorter interval. Do not use on ultradwarf bermudagrass cultivars.
BENTGRASS DEAD SPOT		
boscalid EMERALD	0.18 oz.	Golf Course Use Only: Begin applications prior to or in the early stages of disease development. Apply at 14-day intervals during prolonged favorable weather for disease development.
fludioxonil MEDALLION SC	1.15-2 fl.oz.	Begin applications prior to appearance of symptoms and reapply at 14-day intervals. For broader disease control, tank mix with 1 to 2 fluid ounces per 1000 square feet of Banner Maxx.
pyraclostrobin INSIGNIA INISIGNIA SC	0.5-0.9 oz. 0.4-0.7 fl.oz.	Apply preventively at 14- to 28-day intervals. Begin applications when conditions favor disease development and prior to infection.

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Table 1. Commercial Turf and Lawns: Disease and Nematode Control (cont.)

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
BENTGRASS DEAD SPOT (cont.)		
pyraclostrobin + boscalid HONOR INTRINSIC	0.55 to 1.1 oz.	Golf Course Turf: Begin applications when conditions favor disease and prior to symptom development. Apply at 14- to 28-day intervals.
pyraclostrobin + triticonazole PILLAR G PILLAR G INTRINSIC	3 lb. 3 lb.	Use preventively. Begin applications when conditions favor disease and prior to disease symptoms development. Repeat at 14- to 28-day intervals. Do not make more than five applications of Pillar G per year.
BERMUDAGRASS DECLINE		
chlorothalonil + tebuconazole E-SCAPE ETQ	2.57-4.71 fl.oz.	Golf Course Turf: Apply 2 to 4 weeks before historical appearance of symptoms. Aerify or verticut prior to application. Combine application program with appropriate management practices. Reapply after 28 days.
pyraclostrobin INSIGNIA SC INTRINSIC INSIGNIA	0.7 fl.oz. 0.9 oz.	Aids in control of bermudagrass decline when combined with appropriate cultural practices. Make one application in spring after green up and second application in the fall when the air temperature remains above 80°F in 4 gallons of water per 1000 square feet.
pyraclostrobin + boscalid HONOR INTRINSIC	1.1 fl.oz.	Golf Course Turf: Aids in control of bermudagrass decline when combined with appropriate management practices. Make one application in spring and second application in the fall when the air temperature exceeds 80°F and the relative humidity exceeds 75 percent. Apply in 4 gallons of water per 1000 square feet. Aerify prior to application.
pyraclostrobin + triticonazole PILLAR G PILLAR G INTRINSIC	3 lb. 3 lb.	Aids in control of bermudagrass decline when combined with appropriate cultural practices. Make one application in spring after greenup and second application in the fall when the air temperature remains above 80°F in 4 gallons of water per 1000 square feet.
tebuconazole CLEARSCAPE ETQ TEBUZOL TORQUE	0.6-1.1 fl.oz. 0.6-1.1 fl.oz. 0.6-1.1 fl.oz.	Golf Course Turf: Apply 2 to 4 weeks before historical appearance of symptoms. Aerify or verticut prior to application. Combine application program with appropriate management practices. Reapply after 21 days.
thiophanate-methyl 3336 EG 3336 DG LITE 3336 F 3336 WP T-METHYL SPC 4.5 F	4-6 oz. 6-9 lb. 4-6 oz. 4-6 oz. 3.5-5.33 fl.oz.	Apply in mid-July or when symptoms first appear and repeat at 14-day intervals for suppression. Use higher rates under most severe disease expression. Follow proper agronomic recommendations to maintain plant vigor.
BROWN PATCH AND BROWN RING PATCH		
azoxystrobin AZTEROID FC AZTEROID FC 3.3 DEXTER SC HERITAGE TL HERITAGE G HERITAGE FUNGICIDE TETRABAN	0.5-1 fl.oz. 0.24-0.48 fl.oz. 0.38-0.77 fl.oz. 1-2 fl.oz. 2-4 lb. 0.2-0.4 oz. 0.38-0.77 fl.oz.	Apply at 14- to 28-day intervals when conditions favor disease. Use the highest rate at the shortest interval when disease is present. DO NOT apply more than six times or 3.7 ounces per year. Also for brown ring patch control.
azoxystrobin + acibenzolar-s-methyl HERITAGE ACTION	0.2-0.4 oz.	DO NOT apply on residential lawns or when conditions favor drift from targeted areas. Apply at 14- to 28-day intervals when conditions favor disease development.
azoxystrobin + difenoconazole BRISKWAY	0.3-0.725 fl.oz.	Use preventively and begin applications when conditions favor disease development at 14- to 28-day intervals.

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Table 1. Commercial Turf and Lawns: Disease and Nematode Control (cont.)

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
BROWN PATCH AND BROWN RING PATCH (cont.)		
azoxystrobin + propiconazole HEADWAY	0.75-3 fl.oz.	Use preventively. Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed at a rate of 2 to 4 gallons of water per 1000 square feet of turf. Use higher rate at shorter interval when disease pressure is high. Also for brown ring patch control.
HEADWAY G	2-4 lb.	Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed. Alternate applications with Daconil. Use higher rate at shorter interval when disease pressure is high. Also for brown ring patch control.
chlorothalonil		Tees, Greens, and Fairways: Apply at 7- to 14-day intervals in 2 to 10 gallons of water per 1000 square feet for greens, tees, and lawns. Apply 0.8 to 1 gallon per 1000 square feet on fairways before damage appears. Shorten intervals to 7 days and increase rate when disease appears. DO NOT use on residential lawns.
CHLOROTHALONIL 720	2-5.5 fl.oz.	
DACONIL ULTREX	1.8-5.03 oz.	
DACONIL WEATHER STIK	2-5.5 fl. oz.	
DOCKET DF	1.8-5.03 oz.	
DOCKET WS	2-3.6 fl.oz.	
ECHO ETQ	1.82-3.25 fl. oz.	Golf Course Fairways, Athletic Fields, Parks, Sod Farms: Apply in 30 to 40 gallons of water per acre when conditions favor disease. Repeat as long as conditions persist. Use higher rate and shorter intervals when disease is severe.
ECHO DYAD	3-8 fl.oz.	
ECHO 720	2-3.6 fl.oz.	
ECHO ZN	3-5 fl.oz.	
ENSIGN 82.5%	1.8-3.25 fl.oz.	
EQUUS 720 SST	5.5-9.66 pts/A	
INITIATE 720 at	2.75-9.7 pts/A	
PEGASUS DFX	1.82-3.25 oz.	
PREVIA	2-5.5 fl.oz.	
chlorothalonil + acibenzolar S-methyl		Preventive: Apply before symptoms appear and when conditions favor disease. Repeat at 7- to 14-day intervals in 1 to 3 gallons of water per 1000 square feet of turf. See label for use guidelines for golf course greens, tees, and fairways.
DACONIL ACTION	2-3.5 fl.oz.	
	4-5.4 fl.oz.	Curative: Repeat at 14-day intervals in 1 to 3 gallons of water per 1000 square feet of turf. See label for use guidelines for golf course greens, tees, and fairways. Not for use in residential landscapes
chlorothalonil + azoxystrobin		Use preventively. Begin applications when conditions favor disease and prior to disease symptoms development. Repeat at 14- to 21-day intervals. Also controls brown ring patch
RENOWN	2.5-4.5 fl.oz.	
chlorothalonil + propiconazole		Use preventively. Apply when conditions favor disease and repeat applications at 28-day intervals as needed at a rate of 40 gallons of water per acre. Use higher rate at shorter interval when disease pressure is high. Not for use in residential landscapes.
CONCERT II	3-8.3 fl. oz.	
chlorothalonil + propiconazole + fludioxonil		Begin applications when conditions favor disease and repeat as needed every 14 to 21 days. Use higher rate at shorter interval under high disease pressure.
INSTRATA	2.75-6.0 fl.oz.	
chlorothalonil + tebuconazole		Golf Course Turf: Apply when conditions favor disease and repeat at 28-day intervals as needed in 1 to 3 gallons of water per 1000 square feet. Up to five applications may be made per year.
E-SCAPE ETQ	2.57-4.71 fl.oz.	
chlorothalonil + thiophanate-methyl		Golf Courses, Sod Farms, Commercial and Institutional Grounds: Apply in 2 to 4 gallons of water per 1000 square feet every 7 to 14 days as needed. See label for additional instructions.
SPECTRO 90 WDG	3-5.76 oz.	

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Table 1. Commercial Turf and Lawns: Disease and Nematode Control (cont.)

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
BROWN PATCH AND BROWN RING PATCH (cont.)		
fenarimol RUBIGAN AS	1.5 fl.oz.	Apply at 7- to 14-day intervals in 2 to 5 gallons of water per 1000 square feet. Shorten intervals when disease appears. Tank mix with Daconil 2787 at minimum label rate under severe disease conditions. Turf areas containing <i>Poa annua</i> SHOULD NOT be treated with fenarimol unless suppression is desired.
fluazinam DETOUR 4 SC	0.5 fl.oz.	DO NOT use on residential lawns. Begin applications in May or June before disease is present. Apply at 14-day intervals. This product can be tank mixed or alternated with other products labeled for control of brown patch.
SECURE	0.5 fl.oz.	
fluazinam + acibenzolar-S-methyl SECURE ACTION	0.5 fl. oz.	Begin applications in May or June before disease is present. Apply at 14-day intervals. For broad spectrum control or for control greater than 14 days, see label for more details on tank-mix partners. DO NOT apply Secure Action to residential turf.
fluazinam + tebuconazole TRACTION	1.3 fl.oz.	For use on golf course turf only. Begin applications in May or June before disease is present. Apply at 14-day intervals. For broad spectrum control greater than 14 days, tank-mix with another labeled fungicide such as Affirm.
fludioxonil MEDALLION SC	0.75-2 fl.oz.	Begin applications before disease symptoms are seen. Repeat applications at 7- to 14-day intervals. Use higher rate at shorter interval when disease symptoms are seen. For best results, use as part of comprehensive preventive control program.
fluoryram + trifloxystrobin EXTERIS STRESSGARD	2.1-6 fl.oz.	Apply preventively when conditions favor disease development and at 14- to 28-day intervals. Late curative applications may be less effective. Lightly water-in applications to move fungicide into thatch for increased efficacy.
fluoxastrobin DISARM G	2.3-4.6 lb.	Use preventively. Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed at a rate of 1 gallon of water per 1000 square feet of turf. Use higher rate at shorter interval when disease pressure is high. May be applied to residential turf by a certified applicator.
fluoxastrobin + chlorothalonil DISARM C	1.5-5.9 oz.	Cool Weather Brown Patch: Make one or two applications in the fall or when conditions favor disease. Apply in 1 to 4 gallons per 1000 square feet of treated area. Repeat applications at 14- to 28-day intervals as needed.
fluoxastrobin + myclobutanil DISARM M	0.25-1 fl.oz.	Use preventively. Apply when conditions favor disease and repeat 14 to 28 days later as needed. Use higher rate at shorter interval when disease pressure is high. May be applied to residential turf by a certified applicator. Also for brown ring patch control.
flutolanil PROSTAR 70 WG PROSTAR 70 WP	1.5-3.3 oz. 1.5-3.3 oz.	Apply in 2 to 5 gallons of water at 14- to 21-day intervals when conditions favor disease. Apply up to 3.3 ounces for curative control.
fluxapyroxad XZEMPLAR	0.21-0.26 fl.oz.	Apply at 14- to 21-day intervals. Begin applications prior to disease development. Use a shorter application interval under prolonged favorable disease conditions.
fluxapyroxad + pyraclostrobin LEXICON INTRINSIC	0.34-0.47 fl.oz.	Apply preventively in 2 to 4 gallons of water per 1000 square feet at 14- to 28-day intervals when conditions favor disease development. DO NOT make more than 3 sequential applications of this fungicide.

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Table 1. Commercial Turf and Lawns: Disease and Nematode Control (cont.)

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
BROWN PATCH AND BROWN RING PATCH (cont.)		
iprodione 26 GT	3-4 fl.oz.	Apply at 14- to 21-day intervals in 2 to 10 gallons of water per 1000 square feet as required for disease control. Under severe conditions, shorten spray interval and/or increase rates. Apply when weather conditions favor disease. Repeat at 2-week intervals as needed. See Fungicide X label for spreader settings. Make no more than six applications per year. For golf course use only.
CHIPCO 26019 FLO	3-4 fl.oz.	
ECLIPSE ETQ	2-4 fl.oz.	
RAVEN at 3-4 fl.oz.	3-4 oz.	
iprodione + thiophanate-methyl 26/36 FUNGICIDE DOVETAIL	2-4 fl.oz. 1-4 fl.oz.	Golf and Institutional Turf: Apply when conditions favor disease and repeat at 14- to 21-day intervals as needed. Use higher rate at shorter interval when disease pressure is high. Not for home lawn use.
iprodione + trifloxystrobin INTERFACE	3-5 fl.oz.	Apply when conditions favor disease and repeat applications on greens at 14- to 28-day intervals as needed. Application interval for fairways and other turfs is 14 to 28 days. Use lower application rates on fairways. DO NOT use on residential lawns.
isofetamid + tebuconazole TEKKEN	3 fl.oz.	Apply preventively when conditions favor disease development. Apply at 14-day intervals with high disease pressure. Apply at 21- to 28-day intervals when disease pressure is low. Alternate applications of with other fungicides with different modes of action (non-group 3 and 7 fungicides). DO NOT use on residential lawns.
mancozeb DITHANE F45 RAINSHIELD DITHANE 75DF RAINSHIELD FORE 80WP KOVERALL MANZATE PRO STICK MANZATE PRO STICK T&O PENCOZEB 75DF PROTECT DF ROPER DF ROPERDF RAINSHIELD	6.4 fl.oz. 4 oz. 4 oz. 4 oz. 4 oz. 3-4 oz. 4 oz. 4 oz. 4 oz. 4 oz.	Apply at 7- to 14-day intervals in 3 to 5 gallons per 1000 square feet when disease threatens. Use the high rate at shortest spray interval when disease is severe. Tank-mix with Eagle under severe disease conditions. For professional use only.
mancozeb + azoxystrobin DEXTER MAX	4.33 oz.	Begin applications when disease appears and repeat at 10-day intervals in 3 to 5 gallons of water per 1000 square feet as long as conditions persists. DO NOT use on grasses grown for seed.
mandestrobin PINPOINT FUNGICIDE	0.31 fl.oz.	Begin applications when conditions favor disease development or when disease first appears. Apply at 14-day intervals. DO NOT make more than 2 applications of Pinpoint without rotating to a non-Group 11 fungicide.
mefentrifluconazole MAXTIMA	0.6 fl.oz.	Use preventively. Apply at 14-day intervals in 1 to 4 gallons of water per 1000 square feet of turf. For maximum efficacy under heavy disease pressure or on higher cuts, apply 2 to 4 gallons of water per 1000 square feet of turf. DO NOT apply on residential lawns or athletic turf.
metconazole TOURNEY	0.28-0.37 fl.oz.	Use preventively. Apply when conditions favor disease and repeat applications at 14- to 21-day intervals as needed. Use higher rate at shorter interval when disease pressure is high. Also for brown ring patch control.
myclobutanil EAGLE 20EW	1.2 fl.oz.	Apply at 14-day intervals in 1 to 3 gallons of water per 1000 square feet. See label for restrictions. If disease appears, tank-mix with recommended rate of Dithane T/O or Fore. Use higher rate at shorter intervals when disease is active.
PCNB TURFCIDE 10G TURFCIDE 400	7.5 lb. 16-24 fl.oz.	Apply in 10 to 15 gallons to cover 1000 square feet and repeat every 3 to 4 weeks. Lightly water after application. See label for setting granular spreaders.

¹ Fungicide products are registered for use on residential lawns except as specified in comments.

Table 1. Commercial Turf and Lawns: Disease and Nematode Control (cont.)

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
BROWN PATCH AND BROWN RING PATCH (cont.)		
polyoxin D zinc salt AFFIRM WDG	0.9 oz.	Residential Lawns, Golf Courses, Commercial and Institutional Lawns: Begin applications when conditions favor disease development and before symptoms are seen. Repeat applications at 7- to 14-day intervals. Shorten the application interval when disease is present. Apply in at least 1 gallon of water per 1000 square feet. See label for resistance management recommendations and list of target turfgrasses.
propiconazole BANNER MAXX II	1-2 fl.oz.	Apply in 2 to 5 gallons of water per 1000 square feet before symptoms are present. Repeat at 14- to 21-day intervals. DO NOT exceed 4 fluid ounces per 1000 square feet in a 30-day period for bermudagrass.
BUMPER ES	0.37-0.73 fl.oz.	
PROPICONAZOLE 41.8% EC	0.37-0.73 fl.oz.	
PROPICONAZOLE 1.3 ME T&O	1-2 fl.oz.	
PROPIMAX EC	0.37-0.73 fl.oz.	
PROPICONAZOLE SPC 14.3MEC	1-2 fl.oz.	
STRIDER	1-2 fl.oz.	
pyraclostrobin INSIGNIA	0.5-0.9 oz.	Begin applications when conditions favor disease development and before symptoms are seen. Repeat at 14- to 28-day intervals. Apply in 2 to 4 gallons of water per 1000 square feet. Use higher rate at longer treatment interval. See label for resistance management recommendations.
INSIGNIA SC INTRINSIC	0.4-0.7 fl.oz.	Use preventively. Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed. Use higher rate at shorter interval when disease pressure is high. Do not make more than three consecutive applications of Insignia.
pyraclostrobin + boscalid HONOR INTRINSIC	0.55-1.1 oz.	Golf Course Turf: Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed.
pyraclostrobin + triticonazole PILLAR G	3 lb.	Use preventively. Begin applications when conditions favor disease and prior to disease symptoms development. Repeat at 14- to 28-day intervals. Do not make more than five applications of Pillar G per year.
PILLAR G INTRINSIC	3 lb.	
tebuconazole CLEARSCAPE ETQ	0.6-1.1 fl.oz.	Golf Course Turf: Apply when conditions favor disease and before symptoms appear. Alternate applications of Torque with another fungicide with a different mode of action. A second application may be made after 21 days. Torque is a Group 3 triazole fungicide.
TEBUZOL	0.6-1.1 fl.oz.	
TORQUE	0.6-1.1 fl.oz.	
thiophanate-methyl 3336 DG LITE	6-9 lb.	Apply at 5- to 14-day intervals in 5 gallons of water per 1000 square feet. Shorten intervals and increase rate when disease appears. Continuous use may result in control failure due to resistance. DO NOT tank-mix with highly alkaline pesticides such as Bordeaux mixture or lime sulfur.
3336 F	4-6 oz.	
3336 EG	4-6 oz.	
3336 WP	4-6 oz.	
INCOGNITO 85 WDG	1.2-2.4 oz.	
T-METHYL SPC 4.5 F	2-3.5 fl.oz.	
T-METHYL SPC 50 WSB	2-4 oz.	
TEE-OFF 4.5F	2-3.5 fl.oz.	
triadimefon BAYLETON 50	0.5 oz.	Apply at 15- to 30-day intervals in 2 to 4 gallons of water per 1000 square feet. Use higher rate and shorter intervals when disease appears.
BAYLETON FLO	0.5 fl.oz.	
trifloxystrobin COMPASS	0.1-0.2 oz. 0.15-0.25 oz.	Apply every 14 days when conditions favor disease and repeat as needed. Apply higher rate (0.15-0.25 oz.) at 21-day intervals for curative control when conditions favor disease and repeat as needed.

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Table 1. Commercial Turf and Lawns: Disease and Nematode Control (cont.)

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
BROWN PATCH AND BROWN RING PATCH (cont.)		
trifloxystrobin + triadimefon ARMADA 50 WDG	0.6-1.5 oz.	Apply at 14- to 28-day intervals in 1 to 2 gallons of water per 1000 square feet when conditions favor disease development.
ARMADA 50 WP	0.6-1.5 oz.	
TARTAN	1-2 fl.oz.	
TARTAN STRESSGARD	1-2 fl.oz.	
triticonazole TRINITY	0.75-2 fl.oz.	Apply preventively when conditions are favorable for disease development. Continue as needed at 14- to 28-day intervals. Under conditions for severe disease or for an early curative application, apply the higher rate at a shorter interval. May be tank mixed with 26GT or ProStar for improved brown patch control.
vinclozolin CURALAN EG	1 oz.	Golf Courses, Sod Farms, Sports Turf, Commercial and Institutional Grounds: Apply in 1 to 4 gallons of water per 1000 square feet on a 14- to 28-day schedule when conditions favor disease. Apply no more than 3 ounces per 1000 square feet per year.
TOUCHÉ EG	1 oz.	
DOLLAR SPOT		
azoxystrobin + difenoconazole BRISKWAY	0.3-0.725 fl.oz.	Use preventively and begin applications when conditions favor disease development at 14- to 28-day intervals. For optimum disease control, alternate BRISKWAY with contact fungicides such as a DACONIL brand product.
azoxystrobin + propiconazole HEADWAY	0.75-3 fl.oz.	Use preventively. Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed at a rate of 2 to 4 gallons of water per 1000 square feet of turf. Use higher rate at shorter interval when disease pressure is high. Tank mix with Daconil for application on non-residential turf.
HEADWAY G	2-4 lb.	Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed. Alternate applications with Daconil. Use higher rate at shorter interval when disease pressure is high.
boscalid EMERALD	0.13-0.18 oz.	Golf Course Use Only: Begin applications prior to or at early stages of the disease. Repeat applications at 14- to 28-days. Use shorter interval and/or higher rate when conditions favor disease. Apply in 2 to 4 gallons of water per 1000 square feet.
chlorothalonil CHLOROTHALONIL 720	1-5.5 fl.oz.	Tees and Greens: Apply at 7- to 14-day intervals in 2 to 5 gallons of water per 1000 square feet before disease is seen. When disease appears, shorten intervals to 7 days and increase rate. DO NOT use on residential lawns. Low rate is not effective on intensively mowed turfgrasses such as golf course tees and greens. Golf Course Fairways, Athletic Fields, Parks, Sod Farms: Apply in 30 to 40 gallons of water per acre when conditions favor disease. Repeat as long as conditions persist. Use higher rate and shorter intervals when disease is severe. DO NOT use on residential lawns.
DACONIL ULTREX	1-5.03 oz.	
DACONIL WEATHER STIK	1-5.5 fl.oz.	
DOCKET DF	1.8-5.03 oz.	
DOCKET WS	1-3.6 fl.oz.	
ECHO 720	2-3.6 fl.oz.	
ECHO ETQ	1.82-3.25 oz.	
ECHO DYAD	3-8 fl.oz.	
ECHO ZN	3-5 fl.oz.	
ENSIGN 82.5%	1-3.25 fl.oz.	
EQUUS 720 SST	2.75-9.66 pts/A	
INITIATE 720	2.75-9.7 pts/A	
PEGASUS DFX	1.82-3.25 oz.	
PREVIA	1-5.5 fl.oz.	
chlorothalonil + acibenzolar S-methyl DACONIL ACTION	1-3.5 fl.oz.	

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Table 1. Commercial Turf and Lawns: Disease and Nematode Control (cont.)

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
DOLLAR SPOT (cont.)		
chlorothalonil + acibenzolar S-methyl DACONIL ACTION (cont.)	4-5.4 fl.oz.	Curative: Repeat at 14-day intervals in 1 to 3 gallons of water per 1000 square feet of turf. See label for use guidelines for golf course greens, tees, and fairways. Not for use in residential landscapes
chlorothalonil + azoxystrobin RENOWN	2.5-4.5 fl.oz.	Use preventatively. Begin applications when conditions favor disease and prior to disease symptoms development. Repeat at 7- to 14-day intervals.
chlorothalonil + propiconazole CONCERT II	1.5-8.3 fl.oz.	Use preventatively. Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed at a rate of 1 gallon of water per 1000 square feet of turf. Use higher rate at shorter interval when disease pressure is high. Not for use in residential landscapes.
chlorothalonil + propiconazole + fludioxonil INSTRATA	2.75-7.0 fl.oz.	Begin applications when conditions favor disease and repeat as needed every 21 to 28 days. Use higher rate at shorter interval under high disease pressure.
chlorothalonil + tebuconazole E-SCAPE ETQ	2.57-4.71 fl.oz.	Golf Course Turf: Apply when conditions favor disease and repeat at 28-day intervals as needed in 1 to 3 gallons of water per 1000 square feet. Up to 5 applications may be made per year.
chlorothalonil + thiophanate-methyl SPECTRO 90 WDG	3.72-5.76 oz.	Golf Courses, Sod Farms, Commercial and Institutional Grounds: Apply in 2 to 4 gallons of water per 1000 square feet every 7 to 14 days as needed. See label for additional instructions.
fenarimol RUBIGAN AS	0.75-1.5 oz.	Apply at 10- to 28-day intervals in 2 to 5 gallons of water per 1000 square feet. Use highest rate at the shortest interval when disease is present; then reduce rate for subsequent applications. Tank-mix with Daconil at the minimum label rate when disease is severe. Turf areas containing <i>Poa annua</i> SHOULD NOT be treated with fenarimol unless suppression is desired.
fluazinam DETOUR 4 SC	0.5 fl.oz.	DO NOT use on residential lawns. Applications should be made prior to disease development at 14-day intervals. For broad spectrum control, this product can be tank mixed or alternated with other products labeled for control of dollar spot.
SECURE	0.5 fl.oz.	
fluazinam + acibenzolar-S-methyl SECURE ACTION	0.5 fl. oz	Apply prior to infection, starting when conditions favor disease development. Apply at 14- to 21-day intervals. For broad spectrum control, see label for more details on tank-mix partners. DO NOT apply Secure Action to residential turf.
fluazinam + tebuconazole TRACTION	1.3 fl.oz.	For use on golf course turf only. Apply preventatively at 14-day intervals. DO NOT make more than 2 consecutive applications of this product or other DMI fungicides. Alternate with a fungicide with a different mode of action.
fluopyram + trifloxystrobin EXTERIS STRESSGARD	1.5-4.1 fl.oz.	Apply preventatively when conditions favor disease development and at 7- to 28-day intervals. Under high disease pressure or for early curative application, use the higher rate and shorter interval.
fluoxastrobin + chlorothalonil DISARM C	3-5.9 oz.	Use preventatively. Apply when conditions favor disease and repeat at 14- to 21-day intervals as needed. Use higher rate at shorter interval when disease pressure is high. Tank mix or alternate a DMI fungicide for resistance management. Not for home lawn use.
fluoxastrobin + myclobutanil DISARM M	0.25-1 fl.oz.	Use preventatively. Apply when conditions favor disease and repeat applications at 14- to 21-day intervals as needed. Use higher rate at shorter interval when disease pressure is high. May be applied to residential turf by a certified applicator.

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Table 1. Commercial Turf and Lawns: Disease and Nematode Control (cont.)

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
DOLLAR SPOT (cont.)		
fluxapyroxad XZEMPLAR	0.16-0.26 fl.oz.	Apply preventively at 14- to 28-day intervals. Use shorter application intervals and higher rate under prolonged favorable disease conditions.
fluxapyroxad + pyraclostrobin LEXICON INTRINSIC	0.34-0.47 fl.oz.	Apply preventively 2 to 4 gallons of water per 1000 square feet at 14- to 28-day intervals when conditions favor disease development. DO NOT make more than 2 sequential applications of this fungicide.
iprodione CHIPCO 26019 FLO ECLIPSE ETQ RAVEN 26 GT FLO	1-2 oz. 3-4 fl.oz. 3-4 fl.oz. 3-4 fl.oz.	Golf Courses, Sod Farms, Commercial and Institutional Turf: Apply at 14- to 28-day intervals in 2 to 10 gallons of water per 1000 square feet when conditions favor disease or symptoms appear. Continue applications as long as needed. Use the higher rate and/or shorter spray interval when disease pressure is severe. Make no more than six applications per year. Golf course use ONLY.
iprodione + thiophanate-methyl DOVETAIL 26/36 FUNGICIDE	1-4 fl.oz 1-4 fl.oz.	Golf and Institutional Turf: Apply when conditions favor disease and repeat at 14- to 21-day intervals as needed. Use higher rate at shorter interval when disease pressure is high. Not for home lawn use.
iprodione + trifloxystrobin INTERFACE	3-5 fl.oz.	Apply when conditions favor disease and repeat applications on greens at 14- to 28-day intervals as needed. Application interval for fairways and other turfs is 14 to 28 days. Use lower application rates on fairways. DO NOT use on residential lawns.
isofetamid KABUTO FUNGICIDE SC	0.4 to 0.5 fl.oz.	Apply preventively when conditions favor disease development in 2 to 4 gallons of water per 1000 square feet at 14-day intervals. Use the highest rate when disease pressure is high. Alternate applications of with other fungicides with different modes of action (7 fungicides). DO NOT make more than 2 sequential applications of Kabuto. DO NOT use on residential lawns.
isofetamid + tebuconazole TEKKEN	3 fl.oz.	Apply preventively when conditions favor disease development. Apply at 14-day intervals with high disease pressure. Apply at 21- to 28-day intervals when disease pressure is low. Alternate applications of with other fungicides with different modes of action (non-group 3 and 7 fungicides). DO NOT use on residential lawns.
mandestrobin PINPOINT FUNGICIDE	0.17-0.31 fl.oz.	Begin applications when conditions favor disease development or when disease first appears. Apply at 14- to 21-day intervals. DO NOT make more than 2 applications of Pinpoint without rotating to a non-Group 11 fungicide.
mefentrifluconazole MAXTIMA	0.2-0.6 fl.oz.	Use preventively. Apply at 14- to 28-day intervals in 1 to 4 gallons of water per 1000 square feet of turf. For maximum efficacy under heavy disease pressure or on higher cuts, apply 2 to 4 gallons of water per 1000 square feet of turf. DO NOT apply on residential lawns or athletic turf.
metconazole TOURNEY	0.18-0.37 fl.oz.	Use preventively. Apply when conditions favor disease and repeat applications at 14- to 21-day intervals as needed. Use higher rate at shorter interval when disease pressure is high.
myclobutanil EAGLE 20 EW	1-2.4 fl.oz.	Apply at 14- to 28-day intervals in 1 to 3 gallons of spray volume per 1000 square feet. DO NOT apply more than 7.2 ounces of Eagle per 1000 square feet per year. Use higher rate at shorter intervals when disease is active. See label for spreader settings.

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Table 1. Commercial Turf and Lawns: Disease and Nematode Control (cont.)

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
DOLLAR SPOT (cont.)		
penthiopyrad VELISTA	0.3-0.5 oz.	Begin applications prior to or at the early stages of disease development. Apply at 14-day intervals. Use high rate for high disease pressure or for curative situations. When using the low rate, apply as a tank mix with a different FRAC group fungicide labeled for control of dollar spot. Golf Course Tees and Greens: apply at 14-day intervals. Golf Course Fairways, and All Other Turfgrasses: apply at 14-to 21-day intervals.
PCNB TURFCIDE 10G TURFCIDE 400	5-7.5 lb. 11-16 fl.oz.	Apply in enough water (10 to 15 gallons) to cover 1000 square feet. Repeat 3 to 4 weeks later if conditions still favor disease. See label for granular spreader settings.
propiconazole BANNER MAXX II BUMPER ES PROPICONAZOLE 41.8% EC PROPICONAZOLE 1.3 ME T&O PROPICONAZOLE SPC 14.3MEC PROPIMAX EC STRIDER	0.5-2 fl.oz. 0.18-0.37 fl.oz. 0.18-0.37 fl.oz. 0.5-2 fl.oz. 0.5-2 fl.oz. 0.18-0.37 fl.oz. 0.5-2 fl.oz.	Apply at 14-28-day intervals in 2 to 5 gallons of water per 1000 square feet when conditions favor the disease. DO NOT exceed 2 fluid ounces per 1000 square feet on bermudagrass and St. Augustinegrass. See label for additional use restrictions.
pydiflumetofen POSTERITY	0.08-0.32 fl.oz.	Apply preventively when conditions favor disease development and prior to infection. Apply the low rate at 14-day intervals. Apply higher rates at 21- to 28-day intervals. DO NOT apply to residential turf.
pyraclostrobin + boscalid HONOR INTRINSIC	0.83-1.1 oz.	Golf Course Turf: Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed. Use higher rate at shorter interval when disease pressure is high.
pyraclostrobin + triticonazole PILLAR G PILLAR G INTRINSIC	3 lb. 3 lb.	Use preventively. Begin applications when conditions favor disease and prior to disease symptoms development. Repeat at 14- to 28-day intervals. Do not make more than five applications of Pillar G per year.
tebuconazole CLEARSCAPE ETQ TEBUZOL TORQUE	0.6 fl.oz. 0.6-1.1 fl.oz. 0.6 fl.oz.	Golf Course Turf: Apply when conditions favor disease and before symptoms appear. Alternate applications of Torque with another fungicide with a different mode of action. A second application may be made after 21 days. Torque is a Group 3 triazole fungicide.
thiophanate-methyl 3336 DG LITE 3336 F 3336 EG 3336 WP INCOGNITO 85 WDG T-METHYL SPC 4.5 F T-METHYL SPC 50 WSB TEE-OFF	1.5-6 lb. 2-4 oz. 2-4 oz. 2-4 oz. 1.2-2.4 oz. 2-3.5 fl.oz. 2-4 oz. 2-3.5 oz.	Apply at 5- to 14-day intervals in 5 gallons of water per 1000 square feet. Shorten intervals and increase rate when disease appears. Continuous use may result in control failures due to resistance.

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Table 1. Commercial Turf and Lawns: Disease and Nematode Control (cont.)

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
DOLLAR SPOT (cont.)		
thiram SPOTRETE	3.75 fl.oz.	Start preventative applications when conditions for disease occurrence are favorable and repeat at 14-day intervals until disease threat is past. Start curative applications when disease first appears and repeat at 14-day intervals as necessary. For best results, use spray mixture the same day it is prepared. Apply after mowing or avoid mowing for 12 hours after application. This product can be mixed with iprodione, thiophanate-methyl, propiconazole, triadimefon, chlorothalonil, PCNB, myclobutanil, azoxystrobin, and mancozeb for use on listed.
triadimefon BAYLETON 50	0.5-1 oz.	Apply Bayleton at 30-day intervals in 2 to 4 gallons of water per 1000 square feet. When disease is present, use full rate; then reduce rate for subsequent applications.
BAYLETON FLO	0.25 fl.oz.	
trifloxystrobin + triadimefon ARMADA 50 WDG	0.6-1.5 oz.	Apply at 14- to 28-day intervals in 1 to 2 gallons of water per 1000 square feet when conditions favor disease development.
ARMADA 50 WP	0.6-1.5 oz.	
TARTAN	1-2 fl.oz.	
TARTAN STRESSGARD	1-2 fl.oz.	
triticonazole TRINITY	1-5 fl.oz.	Apply preventively when conditions are favorable for disease development. Continue as needed at 14- to 28-day intervals. Under conditions for severe disease or for an early curative application, apply the higher rate at a shorter interval. Do not use on ultradwarf bermudagrass cultivars. Rotate with Emerald or Curalan fungicides for resistance management.
vinclozolin CURALAN EG	1 oz.	Golf Courses, Sod Farms, Sports Turf, Commercial and Institutional Grounds: Apply in 1 to 4 gallons of water per 1000 square feet on a 14- to 28-day schedule when conditions favor disease. Apply no more than 3 ounces per 1000 square feet per year.
TOUCHÉ EG	1 oz.	
DOWNY MILDEW OF ST. AUGUSTINEGRASS		
chlorothalonil + thiophanate-methyl SPECTRO 90	3.72-5.76 oz.	Sod Farms, Commercial and Institutional Grounds: Apply in 2 to 4 gallons of water per 1000 square feet every 7 to 14 days as needed. See label for additional instructions.
DOWNY MILDEW (YELLOW TUFT)		
mefenoxam SUBDUE GR	12-25 oz.	Established Turf: Apply SUBDUE MAXX uniformly as a preventative treatment in 10- to 14-day intervals. Newly Seeded Turf: Apply SUBDUE MAXX uniformly after seeding and irrigate with 0.25 to 0.5 inches of water. If needed, repeat at 7- to 14-day intervals. Established Turf: Apply SUBDUE GR at 10- to 21-day intervals in 1 to 5 gallons of water per 1000 square feet of turf when conditions favor disease. Use higher rate or shorter interval when disease is active. Newly Seeded Turf: Apply SUBDUE GR in 1 to 5 gallons of water per 1000 square feet immediately after seeding; then irrigate with 0.25 to 0.5 inches of water. Repeat at 7- to 140day intervals if conditions favor diseases.
SUBDUE MAXX	0.5-1 fl.oz.	
pyraclostrobin INSIGNIA	0.5-0.9	Apply when conditions favor disease and repeat application at 14- to 28-day intervals as needed. Do not make more than three consecutive applications of Insignia.
INSIGNIA SC INTRINSIC	0.4-0.7 fl.oz.	
pyraclostrobin + boscalid HONOR INTRINSIC	0.55-1.1 oz.	Golf Course Turf: Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed.
pyraclostrobin + triticonazole PILLAR G	3 lb.	Use preventively. Begin applications when conditions favor disease and prior to disease symptoms development. Repeat at 14- to 28-day intervals. Do not make more than five applications of Pillar G per year.
PILLAR G INTRINSIC	3 lb.	

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Table 1. Commercial Turf and Lawns: Disease and Nematode Control (cont.)

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
FAIRY RING		
azoxystrobin		Apply in 2-4 gallons of water per 1000 square feet as symptoms first appear. Reapply as needed 28 days later. Irrigate with 0.5 inch of water within 24 hours of application. DO NOT make more than three sequential applications.
AZTEROID FC	1 fl.oz.	
AZTEROID FC 3.3	0.48 fl.oz.	
HERITAGE TL	2 fl.oz.	
HERITAGE G	2-4 lb.	
HERITAGE FUNGICIDE	0.4 oz.	
azoxystrobin + acibenzolar-s-methyl		DO NOT apply on residential lawns or when conditions favor drift from targeted areas. Apply preventively or as soon as possible after fairy ring development at 28-day intervals in 4 gallons of water per 1000 square feet. Takes 2- to 3-weeks for symptoms to disappear.
HERITAGE ACTION	0.4 oz.	
azoxystrobin + difenoconazole		Use preventively and begin applications when conditions favor disease development at 14- to 28-day intervals.
BRISKWAY	0.5-0.725 fl.oz.	
azoxystrobin + propiconazole		Use preventively. Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed at a rate of 2 to 4 gallons of water per 1000 square feet of turf. Use higher rate at shorter interval when disease pressure is high. Aerify or tank mix with wetting agent to improve soil penetration
HEADWAY	1.5-3 fl.oz.	
HEADWAY G	2-4 lb.	Apply soon after fairy ring symptoms appear. Irrigate with 0.5 inch of water within 24 hours of application. Reapply after 14 to 28 days as needed.
fluxapyroxad		Apply in 2 to 4 gallons of water per 1000 square feet at 14- to 28-day intervals. Irrigate following application to move fungicide into the soil. Most efficacious when applications are made prior to infection or in early stages of disease development. Use shorter application intervals under prolonged favorable disease conditions.
XZEMPLAR	0.26 fl.oz.	
fluxapyroxad + pyraclostrobin		Apply in 2 to 4 gallons of water per 1000 square feet at 14- to 28-day intervals. Irrigate following application to move fungicide into the soil. Most efficacious when applications are made prior to infection or in early stages of disease development. DO NOT make more than 3 sequential applications of this fungicide.
LEXICON INTRINSIC	0.47 fl.oz.	
fluoxastrobin		Apply to area where fairy rings have been observed in the past or at the first sign of ring development. Irrigate after application to move fungicide into root zone. Repeat as needed.
DISARM G	2.3-4 lb.	
fluoxastrobin + chlorothalonil		As symptoms appear, apply in 4 gallons of water per 1000 square feet of treated area. Add a wetting agent to facilitate soil penetration. Reapply at 21- to 28-day intervals.
DISARM C	4.5-5.9 oz.	
fluoxastrobin + myclobutanil		Apply when rings first appear and repeat 21 to 28 days later as needed in 4 gallons of water per 1000 square feet. Use higher rate at shorter interval when disease pressure is high. May be applied to residential turf by a certified applicator.
DISARM M	0.5-1 fl.oz.	
flutolanil		Apply in 10 to 30 gallons of water per 1000 square feet. If needed, make a second application at least 21 to 28 days later. Use lower rate for preventive control and higher rate for curative control of fairy ring. Core aerify before applying. Irrigate before and after applying. See label for additional instructions.
PROSTAR 70	2.2-4.5 oz.	
PROSTAR 70 WP	2.2-4.5 oz.	

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Table 1. Commercial Turf and Lawns: Disease and Nematode Control (cont.)

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
FAIRY RING (cont.)		
isofetamid + tebuconazole TEKKEN	3 fl.oz.	Apply preventively when conditions favor disease development. Apply at 14-day intervals with high disease pressure. Apply at 21- to 28-day intervals when disease pressure is low. Alternate applications of with other fungicides with different modes of action (non-group 3 and 7 fungicides). DO NOT use on residential lawns.
mefentrifluconazole MAXTIMA	0.8 fl.oz.	Use preventively. Apply at 28-day intervals in 1 to 4 gallons of water per 1000 square feet of turf. For maximum efficacy under heavy disease pressure or on higher cuts, apply 2 to 4 gallons of water per 1000 square feet of turf. Apply 0.25 in of irrigation following application including a soil wetting agent to or at application to improvement downward movement and contact with fungi. DO NOT apply on residential lawns or athletic turf.
metconazole TOURNEY	0.37 fl.oz.	Apply when rings first appear and repeat 21 days later as needed in 4 gallons of water per 1000 square feet of turf. Aerify or tank mix with wetting agent to improve soil penetration.
polyoxin D zinc salt AFFIRM WDG	0.9 oz.	Residential Lawns, Golf Courses, Commercial and Institutional Lawns: Make two to three applications and then water in with 0.5 to 1 inch of water.
pyraclostrobin INSIGNIA	0.9 oz.	Apply immediately after fairy ring appears. Repeat applications at 28-day intervals as needed. Apply in 2 to 4 gallons of water per 1000 square feet. See label for resistance management recommendations.
INSIGNIA SC INTRINSIC	0.7 fl.oz.	Apply shortly after appearance of fairy ring. Use 2 to 4 gallons of water per 1000 square feet of turf treated. Ring symptoms should disappear in two to three weeks. Reapply 28 days after first treatment as needed. Irrigate immediately after application of Insignia Intrinsic.
pyraclostrobin + boscalid HONOR INTRINSIC	1.1 oz.	Golf Course Turf: Apply shortly after appearance of fairy ring. Use 2 to 4 gallons of water per 1000 square feet of turf treated. Ring symptoms should disappear in two to three weeks. Reapply 28 days after first treatment as needed. Irrigate immediately after application of Honor Intrinsic.
pyraclostrobin + triticonazole PILLAR G PILLAR G INTRINSIC	3 lb. 3 lb.	Use preventively. Begin applications when conditions favor disease and prior to disease symptoms development. Repeat at 14- to 28-day intervals. Do not make more than five applications of Pillar G per year.
tebuconazole CLEARSCAPE ETQ TEBUZOL TORQUE	0.6-1.1 fl.oz. 0.6-1.1 fl.oz. 0.6-1.1 fl.oz.	Preventative on Cool Season Turf: Apply before symptoms appear in spring starting when 5 day average soil temperatures at 2 inches reach 55 to 60°F in 1.5 to 3 gallons of water per 1000 square feet of turf and irrigate within 4 hours. Only use a wetting agent as required for the penetration of active hydrophobic soil conditions. Make a second application when the 5 day average soil temperatures reach 65 to 70°F. DO NOT exceed a 21-day interval between applications. Complete green-up should occur before treatment to avoid potential growth reduction. Do not make two consecutive applications of Torque fungicide or other Group 3 triazole fungicides and alternate with another fungicide with a different mode of action whenever possible.
triadimefon BAYLETON 50 BAYLETON FLO	1-2 oz. 1-1.9 fl.oz.	Apply in 2 to 4 gallons of water per 1000 square feet preventively in the spring prior to the appearance of disease symptoms. Irrigate to wash the fungicide into the thatch/soil where the fungus is active. Repeat 14 to 28 days later.
triticonazole TRINITY	1-2 fl.oz.	Use preventively. Begin applications when conditions favor disease and prior to disease symptoms development. Repeat at 14- to 28-day intervals.

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Table 1. Commercial Turf and Lawns: Disease and Nematode Control (cont.)

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
GRAY LEAF SPOT		
azoxystrobin		Apply every 14 to 28 days when conditions favor disease. Use highest rate at shortest interval when disease is present. DO NOT apply more than six times or a total of 3.7 ounces of per year. DO NOT make more than two sequential applications.
AZTEROID FC	0.5-1 fl.oz.	
AZTEROID FC 3.3	0.24-0.48 fl.oz.	
DEXTER SC	0.38-0.77 fl.oz.	
HERITAGE TL	1-2 fl.oz.	
HERITAGE G	2-4 lb.	
HERITAGE FUNGICIDE	0.2-0.4 oz.	
TETRABAN	0.38-0.77 fl.oz.	
azoxystrobin + propiconazole		Use preventively. Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed at a rate of 2 to 4 gallons of water per 1000 square feet of turf. Use higher rate at shorter interval when disease pressure is high.
HEADWAY	1.5-3 fl.oz.	
HEADWAY G	2-4 lb.	Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed. Alternate applications with Daconil. Use higher rate at shorter interval when disease pressure is high.
chlorothalonil		Sod Farms, Parks: Apply at 7- to 14-day intervals in 2 to 10 gallons of water per 1000 square feet for greens, tees, and lawns. Apply in 0.8 to 1 gallon per 1000 square feet for fairways. Use higher rate and/or shorter spray interval when disease is severe. Wait for spray to dry before mowing or irrigating turf. use on residential lawns.
CHLOROTHALONIL 720	2-5.5 fl.oz.	
DACONIL ULTREX	1.8-5.03 oz.	
DACONIL WEATHER STIK	2-5.5 fl.oz.	
DOCKET DF	1.8-5.03 oz.	
DOCKET WS	2-3.6 fl.oz.	
ECHO 720	2-3.6 fl.oz.	
ECHO ZN	3-5 fl.oz.	
ECHO ETQ	1.82-3.25 fl.oz.	
ECHO DYAD	3-8 fl.oz.	
ENSIGN 82.5%	1.8-3.25 fl.oz.	
EQUUS 720 SST	5.5-9.66 pts/A	
INITIATE 720	5.5-9.7 pts/A	
PEGASUS DFX	1.82-3.25 oz.	
PREVIA	2-5.5 fl.oz.	
chlorothalonil + acibenzolar S-methyl		Preventive: Apply before symptoms appear and when conditions favor disease. Repeat at 14-day intervals in 1 to 3 gallons of water per 1000 square feet of turf. See label for use guidelines for golf course greens, tees, and fairways.
DACONIL ACTION	2-3.5 fl.oz.	
	4-5.4 fl.oz.	Curative: Repeat at 7- to 14-day intervals in 1 to 3 gallons of water per 1000 square feet of turf. See label for use guidelines for golf course greens, tees, and fairways. Not for use in residential landscapes
chlorothalonil + azoxystrobin		Use preventively. Begin applications when conditions favor disease and prior to disease symptoms development. Repeat at 10- to 14-day intervals.
RENOWN	2.5-4 .5 fl.oz.	
chlorothalonil + propiconazole		Use preventively. Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed at a rate of 1 gallon of water per 1000 square feed of turf. Use higher rate at shorter interval when disease pressure is high. Not for use in residential landscapes.
CONCERT II	3-8.3 fl.oz.	
chlorothalonil + propiconazole + fludioxonil		Begin applications when conditions favor disease and repeat as needed every 14 days. Use higher rate at shorter interval under high disease pressure.
INSTRATA	2.75-6.0 fl.oz.	
chlorothalonil + thiophanate-methyl		Sod Farms, Commercial and Institutional Grounds: Apply in 2 to 4 gallons of water per 1000 square feet every 7 to 14 days as needed. See label for additional instructions.
SPECTRO 90 WDG	3.7-5.7 oz.	

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Table 1. Commercial Turf and Lawns: Disease and Nematode Control (cont.)

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
GRAY LEAF SPOT (cont.)		
fluoaxastrobin DISARM G	2.3-4.6 lb.	Begin applications when conditions favor disease and prior to disease symptoms development. Apply at 14- to 28-day intervals. Tank mix with another product labeled for gray leaf spot control.
fluoaxastrobin + chlorothalonil DISARM C	3-5.9 oz.	Begin applications when conditions favor disease and prior to disease symptoms development. Apply at 14- to 28-day intervals. Tank mix with another product labeled for gray leaf spot control.
fluoaxastrobin + myclobutanil DISARM M	0.25-1 fl.oz.	Use preventively. Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed. Use higher rate at shorter interval when disease pressure is high. May be applied to residential turf by a certified applicator.
fludioxonil MEDALLION SC	1-2 fl.oz.	Begin applications before disease symptoms are seen. Repeat applications at 14-day intervals. Use higher rate when disease symptoms are seen. For best results, use as part of comprehensive preventive control program.
metconazole TOURNEY	0.37 fl.oz.	Apply when conditions favor disease and repeat applications at 14-day intervals as needed.
myclobutanil EAGLE 20EW	1.2 -2.4 fl.oz.	Apply when conditions favor disease and repeat at 14-day intervals as needed.
propiconazole BANNER MAXX II	1-2 fl.oz.	Apply at 14-day intervals when conditions favor disease. Use higher rate when disease is present. Use lower rate when tank-mixed with a contact fungicide.
BUMPER ES	0.37-0.73 fl.oz.	
PROPICONAZOLE 41.8% EC	0.37-0.73 fl.oz.	
PROPICONAZOLE 1.3 ME T&O	1-2 fl.oz.	
PROPICONAZOLE SPC 14.3MEC	1-2 fl.oz.	
PROPIMAX EC	0.37-0.73 fl.oz.	
STRIDER	1-2 fl.oz.	
pyraclostrobin INSIGNIA	0.5 - 0.9 oz.	Begin applications when conditions favor disease development and before symptoms are seen. Repeat at 14- to 28-day intervals. Apply in 2 to 4 gallons of water per 1000 square feet. See label for resistance management recommendations.
INSIGNIA SC INTRINSIC	0.4-0.7 fl.oz	Use preventively. Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed. Use higher rate at shorter interval when disease pressure is high. Do not make more than three consecutive applications of Insignia Intrinsic.
pyraclostrobin + boscalid HONOR INTRINSIC	0.55-1.1 oz.	Golf Course Turf: Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed.
pyraclostrobin + triticonazole PILLAR G	3 lb.	Use preventively. Begin applications when conditions favor disease and prior to disease symptoms development. Repeat at 14- to 28-day intervals. Do not make more than five applications of Pillar G per year.
PILLAR G INTRINSIC	3 lb.	
tebuconazole CLEARSCAPE ETQ	0.6-1.1 fl.oz.	Golf Course Turf: Apply in 1 to 3 gallons of water per 1000 square feet when conditions in summer favor disease and before symptoms appear. Reapply after 21 days. A contact fungicide may be added to enhance disease control. Do not make two consecutive applications of Torque Fungicide or other Group 3 triazole fungicides and alternate with another fungicide with a different mode of action whenever possible.
TEBUZOL	0.6-1.1 fl.oz.	
TORQUE	0.6 -1.1 fl.oz.	
triadimefon BAYLETON 50	0.5-1 oz.	Apply every 14 days. Tank mix Bayleton with a contact fungicide to control moderate to severe outbreaks.
BAYLETON FLO	0.5-1 fl.oz.	

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Table 1. Commercial Turf and Lawns: Disease and Nematode Control (cont.)

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
GRAY LEAF SPOT (cont.)		
trifloxystrobin COMPASS	0.15-0.2 oz. 0.25 oz.	Apply every 14 days when conditions favor disease. Repeat as needed. Apply every 21 days when conditions favor disease. Repeat as needed.
trifloxystrobin + triadimefon ARMADA 50WDG ARMADA 50 WP TARTAN TARTAN STRESSGARD	0.6-1.5 oz. 0.6-1.5 oz. 1-2 fl.oz. 1-2 fl.oz.	Apply at 14- to 28-day intervals in 1 to 2 gallons of water per 1000 square feet when conditions favor disease development. Use higher rate at shorter intervals when disease is present.
HELMINTHOSPORIUM LEAF SPOT AND CROWN ROT (MELTING-OUT)		
azoxystrobin AZTEROID FC AZTEROID FC 3.3 DEXTER SC HERITAGE TL HERITAGE G HERITAGE FUNGICIDE TETRABAN	0.5-1 fl.oz. 0.24-0.48 fl.oz. 0.38-0.77 fl.oz. 1-2 fl.oz. 2-4 lb. 0.2-0.4 oz. 0.38-0.77 fl.oz.	Apply at 14- to 21-day intervals when conditions favor disease. Use highest rate at the shortest interval when disease is present. DO NOT apply more than six times per year or more than three sequential applications.
azoxystrobin + acibenzolar-s-methyl HERITAGE ACTION	0.2-0.4 oz.	DO NOT apply on residential lawns or when conditions favor drift from targeted areas. Apply at 14- to 21-day intervals when conditions favor disease development.
azoxystrobin + difenoconazole BRISKWAY	0.5-0.725 fl.oz.	Use preventively and begin applications when conditions favor disease development at 14- to 21-day intervals.
azoxystrobin + propiconazole HEADWAY HEADWAY G	1.5-3 fl.oz. 2-4 lb.	Use preventively. Apply when conditions favor disease and repeat applications at 14- to 21-day intervals as needed at a rate of 2 to 4 gallons of water per 1000 square feet of turf. Use higher rate at shorter interval when disease pressure is high. Apply when conditions favor disease and repeat applications at 14- to 21-day intervals as needed. Alternate applications with Daconil. Use higher rate at shorter interval when risk of disease is high.
chlorothalonil CHLOROTHALONIL 720 DACONIL ULTREX DACONIL WEATHER STIK DOCKET DF DOCKET WS ECHO 720 ECHO ETQ ECHO ZN EQUUS 720 SST INITIATE 720 PREVIA	2-5.5 fl.oz. 1.8-5.03 oz. 2-5.5 fl.oz. 1.8-5.03 oz. 2-3.6 fl.oz. 2-3.6 fl.oz. 1.82-3.25 fl.oz. 3-5 fl.oz. 5.5-9.66 pts/A 5.5-9.7 pts/A 2-5.5 fl.oz.	Tees, Greens, and Fairways: Apply at 7- to 10-day intervals in 2 to 10 gallons of water per 1000 square feet for tees, greens, and lawns. Apply in 0.8 to 1 gallon per 1000 square feet for fairways. Use higher rate and/or shorter spray intervals when disease is severe. Wait for spray to dry before mowing or irrigating turf. DO NOT use on residential lawns.
chlorothalonil + acibenzolar S-methyl DACONIL ACTION	2-3.5 fl.oz. 4-5.4 fl.oz.	Preventive: Apply before symptoms appear and when conditions favor disease. Repeat at 7- to 21-day intervals in 1 to 3 gallons of water per 1000 square feet of turf. See label for use guidelines for golf course greens, tees, and fairways. Curative: Repeat at 14-day intervals in 1 to 3 gallons of water per 1000 square feet of turf. See label for use guidelines for golf course greens, tees, and fairways. Not for use in residential landscapes

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Table 1. Commercial Turf and Lawns: Disease and Nematode Control (cont.)

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
HELMINTHOSPORIUM LEAF SPOT AND CROWN ROT (MELTING-OUT) (cont.)		
chlorothalonil + azoxystrobin RENOWN	2.5-4.5 fl.oz.	Use preventatively. Begin applications when conditions favor disease and prior to disease symptoms development. Repeat at 14-to 21-day intervals.
chlorothalonil + propiconazole CONCERT II	3.5-8.3 fl.oz.	Use preventively. Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed at a rate of 1 gallon of water per 1000 square feet of turf. Use higher rate at shorter interval when disease pressure is high. Not for use in residential landscapes.
chlorothalonil + propiconazole + fludioxonil INSTRATA	2.75-6.0 fl.oz.	Begin applications when conditions favor disease and repeat as needed every 14 to 21 days. Use higher rate at shorter interval under high disease pressure.
chlorothalonil + thiophanate-methyl SPECTRO 90 WDG	3.72-5.76 oz.	Golf Courses, Sod Farms, Commercial and Institutional Grounds: Apply in 2 to 4 gallons of water per 1000 square feet every 7 to 14 days as needed. See label for additional instructions.
fluazinam DETOUR 4 SC	0.5 fl.oz.	DO NOT use on residential lawns. Apply when conditions favor disease development and at 14-day intervals. This product can be tank mixed or alternated with other products labeled for control of this disease.
SECURE	0.5 fl.oz.	
fluazinam + acibenzolar-S-methyl SECURE ACTION	0.5 fl. oz	Apply at 14-day intervals when conditions favor disease development. For broad spectrum control, see label for more details on tank-mix partners. DO NOT apply Secure Action to residential turf.
fluazinam + tebuconazole TRACTION	1.3 fl.oz.	For use on golf course turf only. Begin applications when conditions favor disease and apply at 14-day intervals. For broad spectrum control greater than 14 days, tank-mix with another labeled fungicide such as Affirm.
fluoxastrobin DISARM G	2.3-4.6 lb.	Begin applications when conditions favor disease and prior to disease symptoms development. Repeat as needed at 14- to 21-day intervals.
fluoxastrobin + chlorothalonil DISARM C	3-5.9 oz.	Begin applications when conditions favor disease and repeat as needed every 14 to 21 days. Apply in 1 to 4 gallons per 1000 square feet of turf area.
fluoxastrobin + myclobutanil DISARM M	0.25-1 fl.oz.	Use preventively. Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed. Use higher rate at shorter interval when disease pressure is high. May be applied to residential turf by a certified applicator.
iprodione CHIPCO 26019 FLO	3-4 fl.oz.	Golf Courses, Sod Farms, and Institutional Turf: Apply at 14- to 28-day intervals in 2 to 10 gallons of water per 1000 square feet. Use higher rate and/or shorter intervals when disease is severe. Make no more than six applications per year. Residential use is prohibited.
RAVEN	3-4 fl.oz.	
26 GT	3-4 fl.oz.	
iprodione + thiophanate-methyl DOVETAIL	1-4 fl.oz.	Golf and Institutional Turf: Apply when conditions favor disease and repeat at 14- to 21-day intervals as needed. Use higher rate at shorter interval when disease pressure is high. Not for home lawn use.
26/36 FUNGICIDE	1-4 fl.oz.	
iprodione + trifloxystrobin INTERFACE	3-5 fl.oz.	Apply when conditions favor disease and repeat applications on greens at 14- to 21-day intervals as needed. Application interval for fairways and other turfs is 14 to 28 days. Use lower application rates on fairways. DO NOT use on residential lawns.

¹ Fungicide products are registered for use on residential lawns except as specified in comments.

Table 1. Commercial Turf and Lawns: Disease and Nematode Control (cont.)

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
HELMINTHOSPORIUM LEAF SPOT AND CROWN ROT (MELTING-OUT) (cont.)		
mancozeb		Apply in 3 to 5 gallons per 1000 square feet at 7- to 14-day intervals when disease threatens. Use higher rate and/or shorter spray intervals when disease is severe. For professional use only.
DITHANE F45 RAINSHIELD	6.4 fl.oz.	
DITHANE 75DF RAINSHIELD	4 oz.	
FORE 80WP	4 oz.	
KOVERALL	4 oz.	
MANZATE PRO STICK	4 oz.	
MANZATE PRO STICK T&O	3-4 oz.	
PENCOZEB 75DF	4 oz.	
PROTECT DF	4 oz.	
ROPER DF	4 oz.	
ROPERDF RAINSHIELD	4 oz.	
myclobutanil		Apply 2 to 3 gallons of spray solution per 1000 square feet of turf every 14 days when conditions permit.
EAGLE 20EW	1.2 fl.oz.	
polyoxin D zinc salt		Residential Lawns, Golf Courses, Commercial and Institutional Lawns: Begin applications when conditions favor disease development and before symptoms are seen. Repeat applications at 7- to 14-day intervals. Shorten the application interval when disease is present. Apply in at least 1 gallon of water per 1000 square feet. See label for resistance management recommendations and list of target turfgrasses.
AFFIRM WDG	0.9 oz.	
propiconazole		Apply at 14-day intervals to reduce severity of leafspot under light to moderate disease pressure. Use lower rate when tank-mixed with a contact fungicide.
BANNER MAXX II	1-2 fl.oz.	
BUMPER ES	0.37-0.73 fl.oz.	
PROPICONAZOLE SPC 14.3MEC	1-4 fl.oz.	
PROPICONAZOLE 41.8% EC	0.37-0.73 fl.oz.	
PROPICONAZOLE 1.3 ME T&O	1-2 fl.oz.	
PROPIMAX EC	0.37-0.73 fl.oz.	
STRIDER	1-4 fl.oz.	
pyraclostrobin		Begin applications when conditions favor disease development and before symptoms are seen. Repeat at 14- to 28-day intervals. Apply in 2 to 4 gallons of water per 1000 square feet. See label for resistance management recommendations.
INSIGNIA	0.5-0.9 oz.	
INSIGNIA SC INTRINSIC	0.4-0.7 fl.oz.	Use preventively. Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed. Use higher rate at shorter interval when disease pressure is high. Do not make more than three consecutive applications of Insignia Intrinsic.
pyraclostrobin + boscalid		Golf Course Turf: Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed.
HONOR INTRINSIC	0.55-1.1 oz.	
pyraclostrobin + triticonazole		Use preventively. Begin applications when conditions favor disease and prior to disease symptoms development. Repeat at 14- to 28-day intervals. Do not make more than five applications of Pillar G per year.
PILLAR G	3 lb.	
PILLAR G INTRINSIC	3 lb.	
trifloxystrobin		Apply every 14 days when conditions favor disease. High rate may be applied at 21-day intervals. Repeat as needed.
COMPASS	0.15-0.25 oz.	
vinclozolin		Golf Courses, Sod Farms, Sports Turf, Commercial and Institutional Grounds: Apply in 1 to 4 gallons of water per 1000 square feet on a 14- to 28-day schedule when conditions favor disease. Apply no more than 3 ounces per 1000 square feet per year.
CURALAN EG	1 oz.	
TOUCHÉ EG	1 oz.	

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Table 1. Commercial Turf and Lawns: Disease and Nematode Control (cont.)

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
NEMATODES		
1,3 dichloropropene CURFEW	—	Curfew is a postplant fumigant for control of nematodes on bentgrass and bermudagrass greens and tees. Custom application only.
abamectin DIVANEM	3.125-6.25 fl.oz./A 6.25-12.2 fl.oz./A	For golf course use only: Apply in early morning or irrigate area with 0.1 inch water prior to treatment. Make three to four consecutive applications of lower rate at 14- to 21-day or higher rate at 21- to 28-day intervals in 2 gallons of water per 1000 square feet. Immediately apply at least 0.1 inch of water. Best results can be achieved when treatments are started in the spring. Tank mix with a non-ionic surfactant. For best results tank mix with recommended rate of Heritage TL or Heritage WG fungicide.
azadirachtin AZAGUARD MOLT-X	15 fl.oz./A 15 fl.oz./A	Apply in sufficient amount of water to penetrate in the soil to a depth of 12 inches. Repeat applications every 3 or 4 weeks or as needed. OMRI Listed.
<i>Bacillus firmus</i> (strain I-1582) NORTICA NORTICA WP	0.7-2.3 lb. 12.9-18.4 oz.	Apply to moist soil by spraying or drenching every 3 months as needed. If product is applied prior to planting, maintain moist soil with daily irrigation until planting. It is preferable to apply product with irrigation at the beginning of the irrigation cycle and after foliar or drench treatment. When drenching, use conventional equipment. Following drenching, the treated area must be irrigated with adequate water to moisten the entire root system so that product will not damage plant stand. Apply in early spring for best results.
<i>Myrothecium verrucaria</i> (strain AARC-0255) DITERA	0.3-2.4 lb.	Apply as needed to suppress nematodes. May be applied as a dry product or in enough water to ensure movement of product with the root system. See label for mixing instructions. Efficacy has been questioned.
fluopyram INDEMNIFY	0.195 to 0.39 fl.oz.	DO NOT apply more than 17.1 fluid ounces per acre per year. Irrigate to depth of the root zone. Minimum time between applications is 14 days. See label for mixing instructions.
furfural MULTIGUARD PROTECT	0.126-0.184 gal.	Apply up to six applications annually every 14 to 28 days. Dilute product 1:9 with water. Within 15 minutes of application, irrigate product into the soil to a depth of 6 inches with overhead sprinklers in 0.25 to 0.5 inch of water. NOTE: The entire golf course must be closed during treatment. See label for additional use restrictions.
PYTHIUM BLIGHT		
azoxystrobin AZTEROID FC AZTEROID FC 3.3 DEXTER SC HERITAGE TL HERITAGE G HERITAGE FUNGICIDE TETRABAN	1 fl.oz. 0.48 fl.oz. 0.38-0.77 fl.oz. 2 fl.oz. 2-4 lb. 0.4 oz. 0.38-0.77 fl.oz.	Apply at 10- to 14-day intervals when conditions favor disease. Use highest rate at the shortest interval when disease is present. DO NOT apply more than six times per year. See label for resistance management guidelines.
azoxystrobin + acibenzolar-s-methyl HERITAGE ACTION	0.2-0.4 oz.	DO NOT apply on residential lawns or when conditions favor drift from targeted areas. Apply at 10- to 14-day intervals when conditions favor disease development.
azoxystrobin + propiconazole HEADWAY HEADWAY G	3 fl.oz. 2-4 lb.	Use HEADWAY preventively. Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed at a rate of 2 to 4 gallons of water per 1000 square feet of turf. Use HEADWAY G preventively and apply at 14- to 28-day intervals. During long periods of prolonged favorable conditions, treat on a 10-day application interval.

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Table 1. Commercial Turf and Lawns: Disease and Nematode Control (cont.)

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
PYTHIUM BLIGHT (cont.)		
cyazofamid SEGWAY SEGWAY SC	0.45-0.9 fl.oz. 0.45-0.9 fl.oz.	Established Turf: Apply at 14- to 21-day intervals as preventive treatment in 2 to 4 gallons of water per 1000 square feet of turf when conditions favor disease but before symptoms appear. When conditions favor disease for prolonged periods, alternate applications of Segway with mefenoxam or fosetyl-Al (Group 21 fungicide). Newly Seeded Turf: Apply immediately after seeding in 2 to 4 gallons of water per 1000 square feet of turf.
etr Diazole TERRAZOLE 35W	2-4 oz.	Golf Course Greens and Tees: Apply in 2 to 5 gallons of water per 1000 square feet. Begin at first sign of disease and repeat every 5 to 10 days when conditions favor disease.
fluoxastrobin DISARM G	2.3-4.6 lb.	Begin applications when conditions favor disease and before symptoms appear. Repeat applications as needed on a 7- to 14-day schedule. Apply at 21-day intervals and alternate with another fungicide with a different mode of action for resistance management.
fluoxastrobin + chlorothalonil DISARM C	3-5.9 oz.	Use as a preventive treatment. Begin applications when conditions favor disease and repeat as needed every 17-14 days. Apply in 1 to 4 gallons per 1000 square feet of turf area. When disease is active, tank mix Disarm C with another fungicide registered for pythium control.
fluoxastrobin + myclobutanil DISARM M	0.5-1.0 fl.oz.	Use preventively. Begin applications when conditions favor disease and prior to disease symptoms development. Repeat at 14-day intervals. When conditions favor heavy disease pressure, tank mix with another fungicide registered for Pythium blight control. Also controls Pythium root dysfunction.
fluopicolide + propamocarb STELLAR	1.2 fl.oz.	Apply when conditions favor disease and reapply after 14 days as needed. Maximum of two application of Stellar per year. For golf course and sod farms.
fluxapyroxad + pyraclostrobin LEXICON INTRINSIC	0.34-0.47 fl.oz.	Apply preventively at 14- to 28-day intervals when conditions favor disease development. For maximum efficacy, tank mix with another, non-strobilurin fungicide for disease control. DO NOT make more than 2 sequential applications of this fungicide.
fosetyl-Al ALIETTE WDG CHIPCO SIGNATURE	4 oz. 4-8 oz.	Apply when conditions favor disease at 14 day intervals in 1 to 5 gallons of water per 1000 square feet. Use higher rate and/or shorter intervals when disease is present. DO NOT mow or water until foliage dries. Summer Stress Complex: Apply tank-mix Aliette T/O with 8 ounces of Chipco 26019, Chipco Flo, Daconil Ultrex, or Dithane/Fore WP per 1000 square feet at 14-day intervals. Fosethyl-Al is not compatible with flowable formulations of Daconil 2787 (4F or 6F) or Fore Fungicide.
mancozeb + azoxystrobin DEXTER MAX	7 oz.	Begin applications when disease appears and repeat at 10-day intervals in 3 to 5 gallons of water per 1000 square feet as long as conditions persists. DO NOT use on grasses grown for seed.
mefenoxam ² SUBDUE MAXX	0.5-1 fl.oz.	Established Turf: Apply at 10- to 14-day intervals in 1 to 5 gallons of water per 1000 square feet when conditions favor disease. Use higher rate and/or shorter interval when disease is severe. Tank-mix with Fore/Dithane T/O at 8 ounces per 1000 square feet to improve performance. See label for mixing directions. Newly Seeded Turf: Apply in 1 to 5 gallons of water per 1000 square feet immediately after seeding; then irrigate with 0.25 to 0.5 inch of water. Repeat at 7- to 14-day intervals if conditions favor disease. Tank-mixing with Fore/Dithane T/O at 8 ounces per 1000 square feet will improve performance.

¹ Fungicide products are registered for use on residential lawns except as specified in comments.² Caution: To reduce risk of resistance, make no more than three applications of mefenoxam per year and alternate mefenoxam with another systemic fungicide.

Table 1. Commercial Turf and Lawns: Disease and Nematode Control (cont.)

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
PYTHIUM BLIGHT (cont.)		
mefenoxam (cont.) ² SUBDUE GR	5-25 oz.	Established Turf: Apply uniformly as a preventive treatment. Repeat every 10 to 14 days when conditions favor disease. Newly Seeded Turf: Apply uniformly after seeding and irrigate with 0.25 to 0.5 inch of water. If needed, repeat at 7- to 14-day intervals.
phosphorous acid salts ALUDE PHOSTROL	4-8 fl.oz. 4-8 fl.oz.	Golf Courses, Sod Farms, Commercial and Institutional Turf: Apply in 1 to 5 gallons of water per 1000 square feet at 7- to 14-day intervals when conditions favor disease.
propamocarb hydrochloride BANOL	1.33-4 fl.oz.	Established and Overseeded Sports and Commercial Turf: Apply in 2 to 5 gallons of water per 1000 square feet as a preventive treatment when conditions favor disease. Repeat applications at 7- to 21-day intervals according to conditions. Under severe conditions, use the highest rate at the shortest interval.
pyraclostrobin INSIGNIA	0.9 oz.	Begin applications when conditions favor disease development and before symptoms are seen. Repeat at 10- to 14-day intervals. Apply in 2 to 4 gallons of water per 1000 square feet. To suppress root rot, lightly irrigate after application. Under severe disease, apply mefenoxam or etridizole followed by Insignia. See label for resistance management recommendations.
INSIGNIA SC INTRINSIC	0.7 fl.oz.	Use preventively. Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed. Use higher rate at shorter interval when disease pressure is high. DO NOT make more than three consecutive applications of Insignia Intrinsic.
pyraclostrobin + boscalid HONOR INTRINSIC	1.1 oz.	Golf Course Turf: Apply when conditions favor disease and before symptoms appear. Repeat applications at 10- to 14-day intervals as needed. Will not control active Pythium blight.
pyraclostrobin + triticonazole PILLAR G PILLAR G INTRINSIC	3 lb. 3 lb.	Use preventively. Begin applications when conditions favor disease and prior to disease symptoms development. Repeat at 14- to 28-day intervals. DO NOT make more than five applications of Pillar G per year. Also labeled for control of Pythium root dysfunction.
RUST		
azoxystrobin AZTEROID FC AZTEROID FC 3.3 HERITAGE TL HERITAGE G HERITIAGE FUNGICIDE	0.5-1 fl.oz. 0.24-0.48 fl.oz. 1-2 fl.oz. 2-4 lb. 0.2-0.4 oz.	Apply at 14- to 28-day intervals when conditions favor disease.
azoxystrobin + acibenzolar-s-methyl HERITAGE ACTION	0.2-0.4 oz.	DO NOT apply on residential lawns or when conditions favor drift from targeted areas. Apply at 14- to 28-day intervals when conditions favor disease development.
azoxystrobin + difenoconazole BRISKWAY	0.5-0.725 fl.oz.	Use preventively and begin applications when conditions favor disease development at 14- to 28-day intervals.
azoxystrobin + propiconazole HEADWAY	1.5-3 fl.oz.	Use preventively. Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed at a rate of 2 to 4 gallons of water per 1000 square feet of turf. Use higher rate at shorter interval when disease pressure is high.
HEADWAY G	2-4 lb.	Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed. Alternate applications with Daconil. Use higher rate at shorter interval when disease pressure is high.

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Table 1. Commercial Turf and Lawns: Disease and Nematode Control (cont.)

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
RUST (cont.)		
chlorothalonil + azoxystrobin RENOWN	2.5-4.5 fl.oz.	Use preventively. Begin applications when conditions favor disease and prior to disease symptoms development. Repeat at 14-to 21-day intervals.
chlorothalonil + tebuconazole E-SCAPE ETQ	2.57-4.71 fl.oz.	Golf Course Turf: Apply when conditions favor disease and repeat at 28-day intervals as needed in 1 to 3 gallons of water per 1000 square feet. Make no more than 5 applications per year.
chlorothalonil + propiconazole CONCERT II	4.5-8.3 fl.oz.	Use preventively. Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed at a rate of 1 gallon of water per 1000 square feet of turf. Use higher rate at shorter interval when disease pressure is high. Not for use in residential landscapes.
fluopyram + trifloxystrobin EXTERIS STRESSGARD	1.5-4.1 fl.oz.	Apply preventively when conditions favor disease development and at 14- to 28-day intervals. Under high disease pressure or for early curative application, use the higher rate and shorter interval.
fluoxastrobin + chlorothalonil DISARM C	3-5.9 oz.	Apply when conditions favor disease or at first sign of symptoms. Repeat as needed on a 14- to 28-day schedule.
fluoxastrobin + myclobutanil DISARM M	0.25-1 fl.oz.	Use preventively. Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed. Use higher rate at shorter interval when disease pressure is high. May be applied to residential turf by a certified applicator.
fluxapyroxad + pyraclostrobin LEXICON INTRINSIC	0.34-0.47 fl.oz.	Apply preventively at 14- to 28-day intervals when conditions favor disease development. DO NOT make more than 3 sequential applications of this fungicide.
iprodione + trifloxystrobin INTERFACE	3-5 fl.oz.	Apply when conditions favor disease and repeat applications on greens at 14- to 28-day intervals as needed. Application interval for fairways and other turfs is 14 to 28 days. Use lower application rates on fairways.
isofetamid + tebuconazole TEKKEN	3 fl.oz.	Apply preventively when conditions favor disease development. Apply at 14-day intervals with high disease pressure. Apply at 21- to 28-day intervals when disease pressure is low. Alternate applications of with other fungicides with different modes of action (non-group 3 and 7 fungicides). DO NOT use on residential lawns.
mancozeb DITHANE F45 RAINSHIELD	6.4 fl.oz.	Apply at 7- to 14-day intervals in 3 to 5 gallons of water per 1000 square feet when disease threatens. Use higher rate and/or shorter intervals when disease is severe. For professional use only.
DITHANE 75DF RAINSHIELD	4 oz.	
FORE 80WP	4 oz.	
KOVERALL	4 oz.	
MANZATE PRO STICK	4 oz.	
MANZATE PRO STICK T&O	3-4 oz.	
PENCOZEB 75DF	4 oz.	
PROTECT DF	4 oz.	
ROPER DF	4 oz.	
ROPERDF RAINSHIELD	4 oz.	
mancozeb + azoxystrobin DEXTER MAX	4.33 oz.	Begin applications when disease appears and repeat at 10-day intervals in 3 to 5 gallons of water per 1000 square feet as long as conditions persists. DO NOT use on grasses grown for seed.
mandestrobin PINPOINT FUNGICIDE	0.31 fl.oz.	Begin applications when conditions favor disease development or when disease first appears. Apply at 14-day intervals. DO NOT make more than 2 applications of Pinpoint without rotating to a non-Group 11 fungicide.
metconazole TOURNEY	0.37 fl.oz.	Apply when conditions favor disease and repeat applications at 14-day intervals as needed.

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Table 1. Commercial Turf and Lawns: Disease and Nematode Control (cont.)

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
RUST (cont.)		
myclobutaniil EAGLE 20EW	1.2 fl.oz.	Apply 2 to 3 gallons of spray solution per 1000 square feet of turf at 14- to 28-day intervals when conditions favor disease.
propiconazole BANNER MAXX II BUMPER ES PROPICONAZOLE SPC 14.3 MEC PROPICONAZOLE 41.8% EC PROPICONAZOLE 1.3 ME T&O PROPIMAX EC STRIDER	1-2 fl.oz. 0.37-0.73 fl.oz. 1-2 fl.oz. 0.37-0.73 fl.oz. 1-2 fl.oz. 0.37-0.73 fl.oz. 1-2 fl.oz.	Apply in 2 to 5 gallons of water per 1000 square feet before symptoms appear. Repeat at 14- to 28-day intervals as needed.
pyraclostrobin INSIGNIA INSIGNIA SC INTRINSIC	0.5-0.9 oz. 0.4-0.7 fl.oz.	Begin applications when conditions favor disease development and before symptoms are seen. Repeat at 14- to 28-day intervals. Apply in 2 to 4 gallons of water per 1000 square feet. See label for resistance management recommendations. Use preventively. Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed. Use higher rate at shorter interval when disease pressure is high. Do not make more than three consecutive applications of Insignia Intrinsic.
pyraclostrobin + boscalid HONOR INTRINSIC	0.55-1.1 oz.	Golf Course Turf: Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed.
pyraclostrobin + triticonazole PILLAR G PILLAR G INTRINSIC	3 lb. 3 lb.	Use preventively. Begin applications when conditions favor disease and prior to disease symptoms development. Repeat at 14- to 28-day intervals. Do not make more than five applications of Pillar G per year.
tebuconazole CLEARSCAPE ETQ TEBUZOL TORQUE	0.6-1.1 fl.oz. 0.6-1.1 fl.oz. 0.6-1.1 fl.oz.	Golf Course Turf: Apply in 1 to 3 gallons of water per 1000 square feet when conditions favor disease and before symptoms appear. Alternate applications of Torque with another fungicide with a different mode of action. A second application may be made after 21 days. Torque is a Group 3 triazole fungicide. Do not make two consecutive applications of Torque Fungicide or other Group 3 triazole fungicides and alternate with another fungicide with a different mode of action whenever possible.
triadimefon BAYLETON 50 BAYLETON FLO	0.5 oz. 0.5 fl.oz.	Apply at 15- to 30-day intervals in 2 to 4 gallons of water per 1000 square feet when conditions favor disease. Use high rate once disease appears and shorten spray intervals; then return to original spray program. Mow and water after residue dries.
trifloxystrobin COMPASS	0.1-0.15 oz. 0.2-0.25 oz.	Apply at 14-day intervals as needed. Apply at 21-day intervals as needed.
trifloxystrobin + triadimefon ARMADA 50WDG ARMADA 50 WP TARTAN TARTAN STRESSGARD	0.6-1.5 oz. 0.6-1.5 oz. 1-2 fl.oz. 1-2 fl.oz.	Apply at 14- to 28-day intervals in 1 to 2 gallons of water per 1000 square feet when conditions favor disease development. Use higher rate at shorter intervals when disease is present.
triticonazole TRINITY	0.5-1 fl.oz.	Apply preventively when conditions are favorable for disease development. Continue as needed at 14- to 28-day intervals. Under conditions for severe disease or for an early curative application, apply the higher rate at a shorter interval.

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Table 1. Commercial Turf and Lawns: Disease and Nematode Control (cont.)

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
SPRING DEAD SPOT (SDS)		
azoxystrobin		Apply once or twice in late fall or when conditions favor disease. Apply at 28-day intervals. DO NOT apply more than six times per year.
DEXTER SC	0.38-0.77 fl.oz.	
HERITAGE G	2-4 lb.	
HERITAGE TL	2 fl.oz.	
HERITAGE FUNGICIDE	0.4 oz.	
TETRABAN	0.38-0.77 fl.oz.	
azoxystrobin + acibenzolar-s-methyl		DO NOT apply on residential lawns or when conditions favor drift from targeted areas. Apply 1 or 2 applications approximately on month prior to bermudagrass dormancy. 1/8-1/4 inch of irrigation directly after application is recommended. Reapply 14- to 28-days later.
HERITAGE ACTION	0.2-0.4 oz.	
azoxystrobin + propiconazole		Apply once or twice in late summer to early fall to previously damaged turf. Reapply after 14- to 28-day in 2 to 4 gallons of water per 1000 square feet of turf.
HEADWAY	3 fl.oz.	
HEADWAY G	2-4 lb.	Apply once or twice in late summer to early fall to previously damaged turf. Reapply after 14 to 28 days. Irrigate with 0.5 inch of water within 24 hours of application.
chlorothalonil + tebuconazole		Golf Course Turf: Apply in fall as soil temperature reaches 65°F and again in the spring under the same conditions. Apply 0.25 to 0.5 inch of water after application. Aerify or verticut prior to application. Combine application program with appropriate management practices.
E-SCAPE ETQ	2.57-4.71 fl.oz.	
fenarimol		Make one application of 4 fluid ounces per 1000 square feet in September or October or use 6 fluid ounces in November. Use enough water for uniform coverage. Will reduce annual bluegrass stands at all SDS control rates. May interfere with establishment of overseeded ryegrass.
RUBIGAN AS	4-6 fl.oz.	
fluoaxastrobin		Make one to two applications approximately 1 to 2 months prior to bermudagrass dormancy begins in the fall. Aerify before application and apply 0.25 to 0.5 inch of water after application. not for home lawn use.
DISARM G	2.3-4 lb.	
fluoaxastrobin + chlorothalonil		Make one to two applications before bermudagrass dormancy begins in fall. Aerify before application and apply 0.25 to 0.5 inch of water after application. Not for home lawn use..
DISARM C	5.9 oz.	
fluoaxastrobin + myclobutanil		Use preventively. Apply in early fall. Make a second application 14 to 28 days later as needed before bermudagrass dormancy. Water in with 0.25 to 0.5 inch of water immediately after application. Use higher rate at shorter interval on turf previously damaged by spring dead spot. May be applied to residential turf by certified applicator.
DISARM M	0.5-1 fl.oz.	
isofetamid		Apply a single preventive spray at 3.2 fl.oz. or two applications at 0.5-2 fl.oz. (spray 1) followed by 0.5-1.2 fl.oz (spray 2) 14-28 days later. Applications should begin one month prior to dormancy or when soil temperatures drop to 65°F. DO NOT use on residential lawns.
KABUTO FUNGICIDE SC	0.5 to 3.2 fl.oz.	
isofetamid + tebuconazole		Apply preventively when conditions favor disease development. Apply at 14-day intervals with high disease pressure. Apply at 21- to 28-day intervals when disease pressure is low. Alternate applications of with other fungicides with different modes of action (non-group 3 and 7 fungicides). DO NOT use on residential lawns.
TEKKEN	3 fl.oz.	

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Table 1. Commercial Turf and Lawns: Disease and Nematode Control

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
SPRING DEAD SPOT (SDS) (cont.)		
mefentrifluconazole MAXTIMA	0.6-0.8 fl.oz.	Use preventively. Apply at 28-day intervals in 1 to 4 gallons of water per 1000 square feet of turf. For maximum efficacy under heavy disease pressure or on higher cuts, apply 2 to 4 gallons of water per 1000 square feet of turf. Make 2 applications in fall or one application followed by a combination product containing fluxapyroxad and pyraclostrobin (targeting 70°F soil temperature). DO NOT apply on residential lawns or athletic turf.
myclobutaniol EAGLE 20EW	2.4 fl.oz.	Make two to three monthly applications beginning in August. Use at least 2 to 3 gallons of spray volume per 1000 square feet.
propiconazole BANNER MAXX II BUMPER ES PROPICONAZOLE 41.8% EC PROPICONAZOLE 1.3 ME T&O PROPIMAX EC PROPICONAZOLE SPC 14.3MEC STRIDER	4 fl.oz. 1.45 fl.oz. 1.45 fl.oz. 4 fl.oz. 1.45 fl.oz. 4 fl.oz. 4 fl.oz.	Make one to three applications at 30-day intervals beginning in August.
tebuconazole CLEARSCAPE ETQ TEBUZOL TORQUE	0.6-1.1 fl.oz. 0.6-1.1 fl.oz. 0.6-1.1 fl.oz.	Golf Course Turf: Apply in 1 to 3 gallons of water per 1000 square feet in fall when soil temperatures reach 65°F and before symptoms appear. Repeat application at greenup in early spring. Irrigate immediately after application to redistribute fungicide into root zone. Initiate cultural practices to help control disease.
thiophanate-methyl 3336 DG LITE 3336 EG 3336 F 3336 WP T-METHYL SPC 4.5 F T-METHYL SPC 50 WSB	6-9 lb. 4-6 oz. 4-6 oz. 4-6 oz. 3.5-5.33 fl.oz. 4-6 oz.	Apply before turf growth stops and make a second application in the spring. For curative control, apply high rate every 7 to 14 days beginning when disease first appears.
SUMMER STRESS		
triticonazole TRINITY	0.5-1.0 fl.oz.	Begin applications prior to the onset of conditions for abiotic stress to reduce symptoms of summer stress/decline. Continue as needed on a 14- to 28-day interval. Tank mix Chipco Signature to improve the relief in symptoms on turf under moderate to severe stress.
TAKE-ALL PATCH, TAKE-ALL ROOT ROT, BERMUDAGRASS DECLINE		
azoxystrobin AZTEROID FC AZTEROID FC 3.3 DEXTER SC HERITAGE TL HERITAGE G HERITAGE FUNGICIDE TETRABAN	1 fl.oz. 0.48 fl.oz. 0.38-0.77 fl.oz. 2 fl.oz. 2-4 lb. 0.4 oz. 0.38-0.77 fl.oz.	Make two applications at 14- to 28-day intervals in the spring and in the fall. Also controls Zoysia Patch caused by <i>Gaeumannomyces incrustans</i> . DO NOT apply more than six times per year or three sequential applications.
azoxystrobin + acibenzolar-s-methyl HERITAGE ACTION	0.2-0.4 oz.	DO NOT apply on residential lawns or when conditions favor drift from targeted areas. Apply at 28-day intervals when conditions favor disease development. Make two applications in the spring and two applications in the fall.
azoxystrobin + difenoconazole BRISKWAY	0.5-0.725 fl.oz.	Use preventively and begin applications prior to disease development. Make two applications at 28-day intervals in the spring and in the fall.

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Table 1. Commercial Turf and Lawns: Disease and Nematode Control

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
TAKE-ALL PATCH, TAKE-ALL ROOT ROT, BERMUDAGRASS DECLINE (cont.)		
azoxystrobin + propiconazole HEADWAY	3 fl.oz.	Apply once or twice in early spring before disease development occurs. Reapply after 28-days in 2 to 4 gallons of water per 1000 square feet of turf.
HEADWAY G	3.5-4 lb.	Apply twice at 28-day intervals in spring and again in fall. Irrigate with 0.5 inch of water within 24 hours of application.
chlorothalonil + propiconazole CONCERT II	8.3 fl.oz.	Use preventively. Make one or two applications in September and October 14 days apart followed by one or two applications in April and May 14 days apart. Apply in 1 gallon of water per 1000 square feet of turf. Water in with 0.25 to 0.5 inch of water after application. Use higher rate at shorter interval when disease pressure is high. Not for use in residential landscapes.
chlorothalonil + tebuconazole E-SCAPE ETQ	2.57-4.71 fl.oz.	Golf Course Turf: Apply in fall at soil temperatures between 55 and 65°F and again in the spring under the same conditions. Apply 0.25 to 0.5 inch of water after application. Aerify or verticut prior to application. Combine application program with appropriate management practices.
fenarimol RUBIGAN AS	4.0-8.0 fl.oz.	Apply product to the turfgrass and thoroughly irrigate with 0.25-0.5 inches of water. Use preventively and apply 2 applications at 30-day intervals.
fluxapyroxad + pyraclostrobin LEXICON INTRINSIC	0.47 fl.oz.	Apply preventively at 28-day intervals when conditions favor disease development. Make 2 applications in the fall followed by 2 applications in the spring. DO NOT make more than 3 sequential applications of this fungicide.
fluoxastrobin + chlorothalonil DISARM C	2.3-4.6 lb.	Begin applications before disease is present and when conditions favor disease development. Apply twice at 28-day intervals in spring and again in fall.
fluoxastrobin DISARM G	16 fl.oz.	Make two applications in spring and fall with 28-day intervals between applications. Apply 0.25 to 0.5 inch of water after application to move Disarm into root zone.
fluoxastrobin + myclobutanil DISARM M	0.5-1 fl.oz.	Use preventively. Apply twice at 28-day intervals in spring and again in fall. Water in with 0.25 to 0.5 inch of water immediately after application. Use higher rate at shorter interval on turf previously damaged by take-all. May be applied to residential turf by a certified applicator.
isofetamid + tebuconazole TEKKEN	3 fl.oz.	Apply preventively when conditions favor disease development. Apply at 14-day intervals with high disease pressure. Apply at 21- to 28-day intervals when disease pressure is low. Alternate applications of with other fungicides with different modes of action (non-group 3 and 7 fungicides). DO NOT use on residential lawns.
mandestrobin PINPOINT FUNGICIDE	0.31 fl.oz.	Begin applications when conditions favor disease development or when disease first appears. Apply at 14-day intervals. DO NOT make more than 2 applications of Pinpoint without rotating to a non-Group 11 fungicide.
mefentrifluconazole MAXTIMA	0.8 fl.oz.	Use preventively. Apply at 28-day intervals in 1 to 4 gallons of water per 1000 square feet of turf. For maximum efficacy under heavy disease pressure or on higher cuts, apply 2 to 4 gallons of water per 1000 square feet of turf. Make 2 applications in fall and 2 applications in spring targeting 55°F soil temperature. DO NOT apply on residential lawns or athletic turf.
metconazole TOURNEY	0.37 fl.oz.	Apply twice at 14-day intervals in spring and again in fall. Immediately apply 0.25 to 0.5 inch of water. Aerify or verticut before application.

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Table 1. Commercial Turf and Lawns: Disease and Nematode Control

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
TAKE-ALL PATCH, TAKE-ALL ROOT ROT, BERMUDAGRASS DECLINE (cont.)		
propiconazole		Make one to two applications in September and October and, if needed, again in April and May. Schedule applications about 30 days apart.
BANNER MAXX II	2-4 fl.oz.	
BUMPER ES	0.73-1.45 fl.oz.	
PROPICONAZOLE 41.8% EC	0.73-1.45 fl.oz.	
PROPICONAZOLE 1.3 ME T&O	2-4 fl.oz.	
PROPIMAX EC	0.73-1.45 fl.oz.	
PROPICONAZOLE SPC 14.3MEC	2-4 fl.oz.	
STRIDER	2-4 fl.oz.	
pyraclostrobin		Begin applications to bentgrass when conditions favor disease development and before symptoms are seen. Make two applications 28 days apart in the fall and two applications 28 days apart in the spring.
INSIGNIA	0.9 oz.	
INSIGNIA SC INTRINSIC	0.7 oz.	
pyraclostrobin + triticonazole		Use preventively. Begin applications when conditions favor disease and prior to disease symptoms development. Make two applications at 28-day intervals in fall and again in spring as needed. Do not make more than five applications of Pillar G per year.
PILLAR G	3 lb.	
PILLAR G INTRINSIC	3 lb.	
tebuconazole		Golf Course Turf: For prevention, make two applications in fall at the lower rate in 1 to 3 gallons of water per 1000 square feet when conditions favor disease and several weeks before symptoms appear. Irrigate immediately to redistribute fungicide into root zone. Initiate cultural practices at time of first application to help control disease. A spring application may be necessary in areas where disease pressure is known to be heavy.
CLEARSCAPE ETQ	0.6-1.1 fl.oz.	
TEBUZOL	0.6-1.1 fl.oz.	
TORQUE	0.6-1.1 fl.oz.	
triadimefon		Preventive Control: Apply 2 to 4 weeks before symptoms normally appear. Repeat at 21- to 28-day intervals. Thoroughly water immediately after each application. Curative Control: When disease appears, make one or two applications at 14- to 21-day intervals; then, apply 2 ounces every 21 to 28 days. Thoroughly water after each application. For control of diseases incited by <i>Gaeumanomyces graminis</i> var. <i>graminis</i> on St. Augustinegrass, zoysiagrass, bermudagrass, and centipedegrass.
BAYLETON 50	1-2 oz.	
BAYLETON FLO	1-2 fl.oz.	
trioxystrobin + triadimefon		Make one or two applications as needed. Apply at 28-day intervals in 2 gallons of water per 1000 square feet. Aerify or verticut prior to each application.
ARMADA 50 WDG	1.2-1.5 oz.	
ARMADA 50 WP	1.2-1.5 oz.	
TARTAN STRESSGARD	1.5-2 fl. oz.	
triticonazole		Make one or two applications in the fall and repeat at 14- to 28-day intervals. Under preventive applications where light disease pressure is anticipated, use the lower rate and longer interval. Under conditions or prior history for severe disease or for an early curative application, apply the higher rate at a shorter interval.
TRINITY	1-2 fl.oz.	
ZOYSIA PATCH, COOL WEATHER BROWN PATCH, OR YELLOW PATCH OF ZOYSIAGRASS		
azoxystrobin		Make one or two applications in late fall or when conditions favor disease. Apply at 14- to 28-day intervals; however, TETRABAN should be applied at 28-day intervals. DO NOT apply more than three sequential applications.
AZTEROID FC	0.5-1 fl.oz.	
AZTEROID FC 3.3	0.24-0.48 fl.oz.	
DEXTER SC	0.38-0.77 fl.oz.	
HERITAGE TL	1-2 fl.oz.	
HERITAGE G	2-4 lb.	
HERITAGE FUNGICIDE	0.4 oz.	
TETRABAN	0.38-0.77 fl.oz.	
azoxystrobin + acibenzolar-s-methyl		DO NOT apply on residential lawns or when conditions favor drift from targeted areas. Apply one to two applications in fall or when conditions favor disease development at 14- to 28-day intervals.
HERITAGE ACTION	0.2-0.4 oz.	

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Table 1. Commercial Turf and Lawns: Disease and Nematode Control

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
ZOYSIA PATCH, COOL WEATHER BROWN PATCH, OR YELLOW PATCH OF ZOYSIAGRASS (cont.)		
azoxystrobin + difenoconazole BRISKWAY	0.3-0.725 fl.oz.	Use preventively and begin applications when conditions favor disease development at 14- to 28-day intervals.
azoxystrobin + propiconazole HEADWAY HEADWAY G	1.5-3 fl.oz. 2-4 lb.	Begin applications prior to disease development and apply at 14-day intervals in 2 to 4 gallons of water per 1000 square feet of turf. Make 1 or 2 applications approximately one month prior to zoysiagrass dormancy. Reapply at 14- to 28-day intervals.
fludioxonil MEDALLION SC	2 fl.oz.	Begin applications prior to appearance of symptoms and reapply at 14 day intervals. For best disease control, tank mix with 1 to 2 fluid ounces per 1000 square feet of Banner Maxx.
flutolanil PROSTAR 70 WG PROSTAR 70 WP	2.2 oz. 1.5 oz.	Apply at 21- to 28-day intervals as needed when conditions favor disease development..
fluxapyroxad XZEMPLAR	0.21-0.26 fl.oz.	Apply at 14- to 28-day intervals. Make 2 sequential applications before dormancy and 2 additional applications in the spring at time of greenup. For optimum control, tank mix with Insignia SC and/or Trinity or other effective product.
fluxapyroxad + pyraclostrobin LEXICON INTRINSIC	0.34-0.47 fl.oz.	Apply preventively 14- to 28-day intervals when conditions favor disease development. Curative applications are not recommended. DO NOT make more than 3 sequential applications of this fungicide.
ipiodione CHIPCO 26019 FLO ECLIPSE ETQ RAVEN 26 GT	4 fl.oz. 4 fl.oz. 4 fl.oz. 3-4 fl.oz.	Golf Courses, Sod Farms, and Institutional Turf: Apply once in fall when conditions favor disease. Repeat in spring as needed at 14- to 21-day intervals. Use on residential lawns is prohibited.
iprodisone + trifloxystrobin INTERFACE	4 fl.oz.	Apply when conditions favor disease and repeat applications on greens at 14- to 21-day intervals as needed. Applications interval for fairways and other turfs is 14 to 28 days. Use lower application rate on fairways. DO NOT use on residential turf.
isofetamid + tebuconazole TEKKEN	3 fl.oz.	Apply preventively when conditions favor disease development. Apply at 14-day intervals with high disease pressure. Apply at 21- to 28-day intervals when disease pressure is low. Alternate applications of with other fungicides with different modes of action (non-group 3 and 7 fungicides). DO NOT use on residential lawns.
metconazole TOURNEY	0.37 fl.oz.	Apply when conditions favor disease and repeat applications at 14-day intervals as needed.
myclobutanil EAGLE 20EW	2.4 fl.oz.	Make a single application in fall before turf goes dormant.
penthiopyrad VELISTA	0.7 oz.	Make 1-2 applications in the fall as a preventative and apply at 14- to 28-day intervals. Apply as an early spring application if disease pressure is high.
propiconazole BANNER MAXX II BUMPER ES PROPICONAZOLE SPC 14.3MEC PROPICONAZOLE 41.8% EC PROPICONAZOLE 1.3 ME T&O PROPIMAX EC STRIDER	3-4 fl.oz. 1.1-1.45 fl.oz. 3-4 fl.oz. 1.1-1.45 fl.oz. 3-4 fl.oz. 1.1-1.45 fl.oz. 3-4 fl.oz.	To control zoysia patch, make one application in early fall before symptoms appear.

¹ Fungicide products are registered for use on residential lawns except as specified in comments.

Table 1. Commercial Turf and Lawns: Disease and Nematode Control

Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
ZOYSIA PATCH, COOL WEATHER BROWN PATCH, OR YELLOW PATCH OF ZOYSIAGRASS (cont.)		
pyraclostrobin INSIGNIA	0.5-0.9 OZ.	Apply 2 sequential applications at 14- to 28-day intervals prior to or at early signs of infection in the fall before dormancy. Reapply in the spring at greenup if necessary.
INSIGNIA SC INTRINSIC	0.4-0.7 fl.oz.	
pyraclostrobin + triticonazole PILLAR G	3 lb.	Use preventively. Begin applications when conditions favor disease and before disease symptoms development in the fall; repeat in spring following greenup as needed. Repeat at 14- to 28-day intervals. Do not make more than five applications of Pillar G per year.
PILLAR G INTRINSIC	3 lb.	
tebuconazole CLEARSCAPE ETQ	0.6-1.1 fl.oz.	Golf Course Turf: For prevention, make two applications at the lower rate in 1 to 3 gallons of water per 1000 square feet when conditions favor disease in late summer or early fall and before symptoms appear. An early spring application may be needed where disease pressure is heavy.
TEBUZOL	0.6-1.1 fl.oz.	
TORQUE	0.6-1.1 fl.oz.	
triadimefon BAYLETON 50	1-2 oz.	To control zoysia patch, apply in early fall before symptoms appear. If needed, apply in early spring where disease is known to be severe.
BAYLETON FLO	1-1.9 fl.oz.	
triticonazole TRITON FLO	1-2 fl.oz.	Make one or two applications in the fall and repeat at 14- to 28-day intervals. Under preventive applications where light disease pressure is anticipated, use the lower rate and longer interval. Under conditions or prior history for severe disease or for an early curative application, apply the higher rate at a shorter interval. May be applied to residential turf by a certified applicator.

¹ Fungicide products are registered for use on residential lawns except as specified in comments.

Table 2. Preplant Fumigant Nematicides

Nematicide and Formulation	Amount to Use per Acre	Comments ¹
dazomet BASAMID G	302-446 lb. (7-10 lb./ 1000 sq.ft.)	All preplant nematicides are RESTRICTED USE pesticides. For best results, apply fumigant to soil in seedbed condition, free of clods and undecomposed matter. Soil temperature at 6-inch depth should be between 50°F and 80°F. Telone II is effective ONLY against nematodes. See product labels for specific application instructions.
dichloropropene CURFEW	3-5 gal.	
TELONE II	9-18 gal.	
dichloropropene + chloropicrin TELONE C-17	11-17 gal.	
metam sodium VAPAM	40-100 gal.	

¹ Fungicide products are registered for use on residential lawns except as specified in comments.

Table 3. Fungicide Seed Dressings

Fungicide and Formulation	Amount to Use per 100 lb. Seed	Comments
azoxystrobin		Apply as a mist seed treatment or slurry.
AZOXYSTROBIN 100 ST	0.1-3.75 fl.oz.	
STARTUP AZOXY SEED TREATMENT	0.25-1.5 fl.oz.	
WILLOWOOD AZOXY 2SC	0.25-1.5 fl.oz.	
fludioxonil		Apply as a water-based slurry through standard slurry or mist-type commercial seed treatment equipment.
DYNA-SHIELD FLUDIOXONIL	1.5 fl.oz.	
FLUDIOXONIL 4L ST	0.08-0.16 fl.oz.	
MAXIM 4FS	0.08-0.16 fl.oz.	
SPIRATO 480 FS	0.08-0.16 fl.oz.	
mefenoxam		Apply as water slurry with commercial seed treatment equipment.
APRON XL	0.64-1.28 fl.oz.	

Commercial Turf and Lawns: Disease and Nematode Control Recommendations prepared by **Amanda Strayer-Scherer**, *Extension Plant Pathologist*, Assistant Professor, Entomology and Plant Pathology, Auburn University.

FOR MORE INFORMATION on pesticides, pesticide safety, or submitting samples for analysis, see the following publications in the IPM series:

IPM 1293, "Safety." Safety contact information; worker protection standards; the safe use, handling, and storage of pesticides

IPM 1294, "Submitting Samples." Procedures for submitting samples for diagnosis, analysis, and identification

IPM 1295, "General Pesticide Information." Federal and state restricted use pesticide lists; pesticides and water quality

IPM 1317 "Appendix." Pesticide guidelines for agronomic crops, including preharvest intervals; rain-free requirements; grazing restrictions; crop rotation guidelines; and the names, classifications, and toxicities of pesticides.



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For more information, contact your county Extension office. Visit www.aces.edu/counties or look in your telephone directory under your county's name to find contact information.

Use pesticides **only** according to the directions on the label. Follow all directions, precautions, and restrictions that are listed. Do not use pesticides on plants that are not listed on the label

The pesticide rates in this publication are recommended **only** if they are registered with the Environmental Protection Agency or the Alabama Department of Agriculture and Industries. If a registration is changed or canceled, the rate listed here is no longer recommended. Before you apply **any** pesticide, check with your county Extension agent for the latest information.

Trade names are used **only** to give specific information. The Alabama Cooperative Extension System does not endorse or guarantee any product and does not recommend one product instead of another that might be similar.

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