



IPM-1291

Commercial Turf and Lawns



Disease and Nematode Control Recommendations
for 2017 Continue to be Appropriate for 2019

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 DACONIL WEATHER STIK DACONIL ULTREX	2-0.36 fl.oz. 1.8-5 oz. (5-13.5 lb./A)	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.
LEGEND	2-3.6 fl.oz.	
chlorothalonil + acibenzolar S-methyl DACONIL ACTION	2-3.5 fl.oz.	Apply as needed at 7- to 14-day intervals in 1 gallon of water per 1,000 square feet of turf. See label for use guidelines for golf course greens, tees, and fairways.
chlorothalonil + azoxystrobin RENOWN	2.5-4 fl.oz.	For suppression of algae, apply at 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.
fludioxonil MEDALLION	0.5 oz.	For suppression of algae, apply on a 10- to 14-day schedule. When algae is well established, dry out affected area. Once dry, manage to enhance turfgrass recovery in conjunction with Medallion treatments. May tank mix with 3.2 ounces per 1,000 square feet of Daconil Ultrex to enhance algae suppression.
mancozeb DITHANE T/O RAINSHIELD 4 FLOWABLE MANCOZEB FORE 80W MANCOZEB DG PROTECT T/O	6 oz. 9.6 fl.oz. 6 oz. 6 oz. 6 oz.	Apply as needed to affected areas. For professional use only.
triticonazole TRINITY TRITON 70WDG	0.5-1 fl.oz. 0.15-0.6 oz.	For curative control add chlorothalonil or mancozeb to tank mixture. Repeat as needed at 14- to 28-day intervals.
ANTHRACNOSE		
azoxystrobin HERITAGE TL HERITAGE G HERITAGE FUNGICIDE	1-2 fl.oz. 2-4 oz. 0.2-0.4 oz.	Occurs in summer on bentgrass and poa greens and tees. 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.
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 1,000 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.

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.)		
chlorothalonil		Bentgrass Tees, Greens, Fairways: Apply to tees and greens at 7- to 10-day intervals in 2 to 10 gallons of water per 10000 square feet. Use 0.8 to 1 gallon water per 1000 square feet on fairways. Apply at shorter intervals and higher rate when disease appears.
DACONIL ULTREX	1.8-5 oz.	
DACONIL WEATHER STIK	2-5.5 fl.oz.	
ECHO 6 ETQ	3.6-5.5 fl.oz.	
LEGEND	3-3.6 fl.oz.	
chlorothalonil + acibenzolar S-methyl		Apply before symptoms appear and when conditions favor disease. Repeat at 7- to 14-day intervals in 1 gallon of water per 1,000 square feet of turf. See label for use guidelines for golf course greens, tees, and fairways.
DACONIL ACTION	3-5.4 fl.oz.	
chlorothalonil + azoxystrobin		Use preventively. Begin applications when conditions favor disease and prior to disease symptoms development. Repeat at 14 to 28 day intervals. Do not exceed 14-day treatment interval on golf greens.
RENOWN	2.5-4 fl.oz.	
chlorothalonil + propiconazole		Golf Courses and Sod Farms: Apply at 14-day intervals in a minimum of 0.3 gallons of water per 1,000 square feet when conditions favor disease development.
ECHO/PROPICONAZOLE EC CO-PACK	2.0 + 0.36 fl.oz.	
CONCERT II	4.5-8.5 fl.oz.	
chlorothalonil + propiconazole + fludioxonil		Use preventively. Apply when conditions favor disease and repeat applications at 7- to 28-day intervals as needed at a rate of 1 gallon of water per 1,000 square feet of turf. Use higher rate at shorter interval when disease pressure is high. Not for use in residential landscapes.
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 six applications may be made per year.
E-SCAPE ETQ	2.6 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	3.7-5.7 oz.	
CONSYST WDG	2-4 oz.	
TEE-1-UP	2-4 oz.	
fenarimol		Begin sprays before symptoms appear; apply at 30-day intervals as long as conditions favor disease.
RUBIGAN AS	1.75-3.5 fl.oz.	
fludioxonil		Begin applications before disease symptoms are seen. Repeat applications at 14-day intervals. For best results, use as part of comprehensive preventive control program.
MEDALLION	0.25-0.5 oz.	
fluoastrobilin		Bentgrass and Other Cool season Turfgrasses: Apply at 14- to 28-day intervals in 1 to 4 gallons of water per 1,000 square feet when conditions favor disease development. Repeat as needed.
DISARM 480SC	8-16 fl.oz.	
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 1,000 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.
fluoastrobilin + chlorothalonil		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 1,000 square feet of turf area.
DISARM C	3-5.9 fl.oz.	
	3-5.9 fl.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 1,000 square feet of turf area.

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.)		
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 + thiophanate-methyl 26/36 FUNGICIDE	2-4 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.
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 GOLDEN EAGLE G	1.2 fl.oz. 2-8 lb.	Apply in summer at 14- to 21-day intervals when conditions favor disease. Use higher rate at shorter interval when disease is active.
polyoxin D zinc salt ENDORSE WP AFFIRM WDG	0.25 lb. 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 BANNER MAXX II PROPICONAZOLE PRO PROPICONAZOLE SPC 14.3MEC PROPENSITY 1.3ME SPECTATOR ULTRA STRIDER	1-2 fl.oz. 1-2 fl.oz. 1-2 fl.oz. 1-2 fl.oz. 1-2 fl.oz. 1-2 fl.oz. 1-2 fl.oz.	Apply at 14- to 28-day intervals. Use higher rate at shorter interval when disease is present.
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 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.
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.
tebuconazole CLEARSCAPE ETQ TORQUE	0.6 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.

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.)		
thiophanate-methyl		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.
3336F	2-8 fl.oz.	
3336G	6-12 lb.	
3336 WP	2-8 oz.	
3336 PLUS	2-8 oz.	
CAVALIER 4.5F	4-8 fl.oz.	
CAVALIER 2G	3-9 lb.	
CAVALIER WSB	2-8 oz.	
SYSTEC 1998 F	1-2 fl.oz.	
SYSTEC 1998 50W	0.7-1.3 oz.	
TEE-OFF 4.5E	4-8 fl.oz.	
SYSTEMIC FUNGICIDE	1.35-2.7 lb.	
thiophanate-methyl (cont.)		For prevention on previously damaged greens, apply twice at 14-day intervals when soil temperature reaches 60°F. For curative control, apply when disease first appears and continue at 14-day intervals as needed. Rotate with application of chlorothalonil or triadimefon. See label for spreader settings.
3336 DG LITE	3-9 oz.	
thiophanate-methyl + chlorothalonil		Apply at 7- to 14-day intervals. Use higher rate at shorter intervals when disease is present.
CONSYST	2-8 oz.	
TEE-1-UP	2-8 oz.	
triadimefon		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.
BAYLETON T/O	1 oz.	
BAYLETON FLO	1 fl.oz.	
GRANULAR TURF FUNGICIDE	1.5-3 lb.	
FUNGICIDE VII	1.3-5 lb.	
trifloxystrobin		Apply every 14 to 21 days when conditions favor disease. Use higher rate for curative control.
COMPASS 50WDG	0.15-0.25 oz.	
COMPASS G	5 lb.	Apply every 21 days as needed when conditions favor disease. May be tank mixed with Bayleton T/O to control dollar spot.
trifloxystrobin + triadimefon		Apply at 14- to 28-day intervals in 1 to 2 gallons of water per 1,000 square feet when conditions favor disease development.
ARMADA 50WDG	0.6-1.2 oz.	
TARTAN	1-2 fl.oz.	
triticonazole		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.
TRINITY	0.5-1 fl.oz.	
TRITON FLO	0.41-1.1 fl.oz.	
TRITON 70WDG	0.15-0.6 oz.	
triticonazole + chlorothalonil		Begin fungicide applications 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, use the higher rate and shorter interval.
RESERVE	3.2-5.4 fl.oz.	
BENTGRASS DEAD SPOT		
boscalid		Begin applications prior to or in the early stages of disease development. Apply at 14-day intervals during prolonged favorable weather for disease development.
EMERALD	0.18 oz.	
fludioxonil		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 1,000 square feet of Banner Maxx.
MEDALLION	0.3-0.5 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		

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
BERMUDAGRASS DECLINE		
chlorothalonil + tebuconazole E-SCAPE ETQ	2.6 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 INTRINSIC	0.7 fl.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 1,000 square feet.
pyraclostrobin + boscalid HONOR INTRINSIC	1.1 fl.oz.	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 1,000 square feet. Aerify prior to application.
pyraclostrobin + triticonazole PILLAR G PILLAR G INTRINSIC	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 1,000 square feet..
tebuconazole CLEARSCAPE ETQ	0.6 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.
thiophanate-methyl 3336 DG LITE	6-9 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 HERITAGE TL	1-2 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. Does not control dollar spot. Also for brown ring patch control.
HERITAGE G	2-4 oz.	
HERITAGE FUNGICIDE	0.2-0.4 oz.	
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 1,000 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 DACONIL ULTREX	1.8-5 oz.	Tees, Greens, and Fairways: Apply at 7- to 10-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.
DACONIL WEATHER STIK	2-5.5 fl.oz.	
ECHO 6 ETQ	2-3.6 fl.oz.	
LEGEND	3-3.6 fl.oz.	
MANICUR DG	1.75-6.5 oz.	
MANICUR FLOWABLE	3-11 fl.oz.	
chlorothalonil DACONIL ULTREX	5-13.5 lb./A	Golf Course Fairways, Sod Farms, Athletic Fields, Parks: Apply in 30 to 40 gallons per acre when conditions favor disease and repeat as long as conditions persist. Use higher rate and shorter spray schedule when disease is severe.
DACONIL WEATHER STIK	5.5-15.1 pt./A	
ECHO 90DF	4.5-8 lb./A	
MANICUR DG	4.5-8 lb./A	
MANICUR FLOWABLE	8-14 pt./A	

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.)		
chlorothalonil + acibenzolar S-methyl DACONIL ACTION	2-3.5 fl.oz.	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 1,000 square feet of turf. See label for use guidelines for golf course greens, tees, and fairways.
	4-5.4 fl.oz.	Curative: Repeat at 7- to 14-day intervals in 1 to 3 gallons of water per 1,000 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 fl.oz.	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
chlorothalonil + propiconazole ECHO/PROPICONAZOLE EC CO-PACK	2.0 + 0.36 fl.oz.	Golf Courses and Sod Farms: Apply at 14-day intervals in a minimum of 0.3 gallons of water per 1,000 square feet when conditions favor disease development.
CONCERT II	3-8.5 fl.oz.	Use preventively. Apply when conditions favor disease and repeat applications at 7- to 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.
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 + tebuconazole E-SCAPE ETQ	2.6 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 six applications may be made per year.
chlorothalonil + thiophanate-methyl SPECTRO 90	2-5.7 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.
CONSYST WDG	2-4 oz.	
TEE-1-UP	2-4 oz.	
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.
fenarimol + chlorothalonil BROADWAY 4.4F	3-6 fl.oz.	Apply at 7- to 10-day intervals. Begin sprays when conditions favor disease.
TWO SOME 4.4F	3-6 fl.oz.	
fludioxonil MEDALLION	0.25-0.5 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.
fluoxastrobin DISARM 480SC	8-16 fl.oz.	Bentgrass and Other Cool Season Turfgrasses: Apply at 14- to 28-day intervals in 1 to 4 gallons of water per 1,000 square feet when conditions favor disease development. Repeat as needed. For brown patch on zoysiagrass in spring, make one or two applications at 50 percent greenup at 14- to 28-day intervals. Use higher rate at shorter interval on turf previously damaged by brown patch.
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 1,000 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.

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.)		
fluoaxastrobin + chlorothalonil DISARM C	1.5-5.9 fl.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 1,000 square feet of treated area. Repeat applications at 14- to 28-day intervals as needed.
fluoaxastrobin + myclobutanil DISARM M	0.5-1 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 70WDG	1.5-2.2 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. Does not control dollarspot.
flutolanil + triadimefon PROSTAR PLUS	1 bag/8000-12,000 sq.ft.	Apply in 2 to 5 gallons of water per 1000 square feet at 30-day intervals. See label for mixing and application directions.
iprodione IPRODIONE PRO 2SE IPRODIONE SPC FUNGICIDE CHIPCO 26019 50W	2-4 fl.oz. 2-4 fl.oz. 1-2 oz. (9-13 T.)	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.
26 GT FLO FUNGICIDE X	4 fl.oz. 2.4-4.8 lb.	
iprodione + thiophanate-methyl 26/36 FUNGICIDE	2-4 fl.oz.	
iprodione + trifloxystrobin INTERFACE	3-5 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.
mancozeb DITHANE T/O RAINSHIELD 4 FLOWABLE MANCOZEB FORE 80W	4 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.
	6.4 fl.oz.	
	4 oz. (10-27 T.)	
	MANCOZEB DG PROTECT T/O	
metconazole TOURNEY	0.28-0.37 fl.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.
myclobutanil EAGLE 20EW GOLDEN EAGLE G	1.2 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.
	2-8 lb.	
PCNB DEFEND 2F DEFEND 10G REVERE 75W REVERE 4000 TURFCIDE 10G TURFCIDE 400	1 qt.	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.
	7.5 lb.	
	1 lb.	
	16-24 fl.oz.	
	7.5 lb.	
	16-24 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
BROWN PATCH AND BROWN RING PATCH (cont.)		
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.	
ENDORSE WP	0.25 lb.	
VERANDA T WDG	2.4 lb./A	
propiconazole		Apply in 2 to 5 gallons of water per 1000 square feet before symptoms are present. Repeat at 14- to 28-day intervals. DO NOT exceed 4 fluid ounces per 1000 square feet in a 30-day period for bermudagrass.
BANNER MAXX	1-2 fl.oz.	
BANNER MAXX II	1-2 fl.oz.	
PROPICONAZOLE PRO	1-2 fl.oz.	
PROPICONAZOLE SPC 14.3MEC	1-2 fl.oz.	
PROPENSITY 1.3ME	1-2 fl.oz.	
SPECTATOR ULTRA	1-2 fl.oz.	
STRIDER	1-2 fl.oz.	
PROPHECY 0.7G	2.5 lb.	Apply Prophecy 0.7G at 14- to 21-day intervals as need to control disease. See label for spreader settings.
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. Use higher rate at longer treatment interval. See label for resistance management recommendations.
INSIGNIA	0.5-0.9 oz.	
INSIGNIA 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		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		
tebuconazole		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.
CLEARSCAPE ETQ	0.6 fl.oz.	
TORQUE	0.6 fl.oz.	
thiophanate-methyl		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. See label for application intervals for 3336 Plus.
3336 50W	4-8 oz.	
3336F	1-2 fl.oz.	
3336G	1.5-3 lb.	
3336 PLUS	4-8 oz.	
CAVALIER 4.5F	1-2 fl.oz.	
CAVALIER WSB	2 oz.	
FUNGO FLO	1-2 fl.oz.	
SYSTEC 1998 F	1-2 fl.oz.	
SYSTEC 1998 WDG	0.6-1.3 oz.	
TEE-OFF 4.5F	1-2 fl.oz.	
T-STORM 50W	1-4 oz.	
3336 DG LITE	1.5-6 oz.	
		For prevention use low rate and apply before symptoms appear or before weather conditions favor disease development. Reapply at 14-day intervals as needed. Rotate with application of chlorothalonil or triadimefon. See label for spreader settings.

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.)		
thiophanate-methyl + chlorothalonil		Apply at 7- to 14-day intervals. Use higher rate at shorter intervals when disease is present.
CONSYST	3-8 oz.	
TEE-1-UP	2-8 oz.	
thiophanate-methyl + iprodione		Golf Courses, Sod Farms, and Institutional Turf: Apply at 1- to 2-week intervals in 4 to 7 gallons of water per 1000 square feet. Use higher rate and/or shorter intervals when disease appears. DO NOT water or mow within 24 hours of application.
FLUID FUNGICIDE	1.1-2.1 fl.oz.	
26/36 FUNGICIDE	2-4 fl.oz.	
TWSOME	1-4 fl.oz.	
triadimefon		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 T/O	0.5-1 oz.	
BAYLETON FLO	0.5 fl.oz.	
FUNGICIDE VII	2.7-5.3 lb.	For use on bentgrass, perennial ryegrass, and bermudagrass. For preventive use, apply to moist or dry foliage at low rate every 14 days as needed. If disease appears, apply at a higher rate every 14 days. Refer to label for spreader settings.
GRANULAR TURF FUNGICIDE	1.5-3 lb.	
trifloxystrobin		Apply every 14 days when conditions favor disease and repeat as needed. Use higher rate for curative control.
COMPASS 50WDG	0.1-0.2 oz. 0.15-0.25 oz.	
COMPASS G	2-5 lb.	Apply every 21 days when conditions favor disease and repeat as needed. Does not control dollarspot. No PGR activity on bentgrass or bermudagrass.
trifloxystrobin + triadimefon		Apply at 14- to 28-day intervals in 1 to 2 gallons of water per 1,000 square feet when conditions favor disease development.
ARMADA 50WDG	0.6-1.2 oz.	
TARTAN	1-2 fl.oz.	
triticonazole		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.
TRINITY	0.75-2 fl.oz.	
TRITON FLO	0.41-1.1 fl.oz.	
TRITON 70WDG	0.225-0.6 oz.	
triticonazole + chlorothalonil		Begin fungicide applications preventively when conditions are favorable for disease development. Continue as needed at 14- to 28-day intervals.
RESERVE	3.2-5.4 fl.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.	
DOLLAR SPOT		
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 1,000 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	0.75-1.5 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.
boscalid		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.
EMERALD	0.13-0.18 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
DOLLAR SPOT (cont.)		
chlorothalonil		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.
DACONIL ULTREX	1.8-5 oz.	
DACONIL WEATHER STIK	2-5.5 fl.oz.	
ECHO 90DF	1.75-6.5 oz.	
LEGEND	1-3.6 fl.oz.	
MANICUR DG	1.75-6.5 oz.	
MANICUR FLOWABLE	3-11 fl.oz.	
chlorothalonil		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	5-13.5 lb./A	
DACONIL WEATHER STIK	5.5-15.1 pt./A	
ECHO 6 ETQ	2-3.6 fl.oz.	
LEGEND	1-3.6 fl.oz.	
MANICUR DG	2.25-8 lb./A	
MANICUR FLOWABLE	4-14 pt./A	
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 1,000 square feet of turf. See label for use guidelines for golf course greens, tees, and fairways.
DACONIL ACTION	1-3.5 fl.oz.	
	4-5.4 fl.oz.	Curative: Repeat at 7- to 14-day intervals in 1 to 3 gallons of water per 1,000 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 preventatively. Begin applications when conditions favor disease and prior to disease symptoms development. Repeat at 14-day intervals.
RENOWN	2.5-4 fl.oz.	
chlorothalonil + propiconazole		Golf Courses and Sod Farms: Apply at 14-day intervals in a minimum of 0.3 gallons of water per 1,000 square feet when conditions favor disease development.
ECHO/PROPICONAZOLE EC CO-PACK	2.0 + 0.36 fl.oz.	
CONCERT II	1.5-8.5 fl.oz.	Use preventively. Apply when conditions favor disease and repeat applications at 7- to 28-day intervals as needed at a rate of 1 gallon of water per 1,000 square feet of turf. Use higher rate at shorter interval when disease pressure is high. Not for use in residential landscapes.
chlorothalonil + propiconazole + fludioxonil		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.
INSTRATA	2.75-7.0 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 six applications may be made per year.
E-SCAPE ETQ	2.6 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	2-5.7 oz.	
TEE-1-UP	2-4 oz.	
CONSYST WDG	2-4 oz.	
fenarimol		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.
RUBIGAN AS	0.75-1.5 oz.	
fenarimol + chlorothalonil		Apply on a 2- to 3-week spray schedule. Begin sprays when conditions favor disease.
BROADWAY 4.4F	3-4.5 fl.oz.	
TWO SOME 4.4F	3-4.5 fl.oz.	
	(1-1.5 gal./A)	

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
DOLLAR SPOT (cont.)		
fluoaxastrobin + chlorothalonil DISARM C	3-5.9 fl.oz.	Use preventively. 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.
fluoaxastrobin + myclobutanil DISARM M	0.25-1 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. May be applied to residential turf by a certified applicator.
iprodione IPRODIONE PRO 2SE IPRODIONE SPC FUNGICIDE CHIPCO 26019 50W 26GT FLO	2-4 fl.oz. 4 fl.oz. 1-2 oz. (6-13 T.) 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 26/36 FUNGICIDE	2-4 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.
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 20EW GOLDEN EAGLE G	1.0-2.4 fl.oz. 2-8 lb.	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.
PCNB DEFEND 75W DEFEND 10G REVERE 75W TURFCIDE 2E TURFCIDE 10G TURFCIDE 400	7-10 oz. 7.5 lb. 7-10 oz. 1-1.5 qt. 50-75 lb. 10.5-15 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 BANNER MAXX II PROPICONAZOLE PRO PROPICONAZOLE SPC 14.3MEC PROPENSITY 1.3ME SPECTATOR ULTRA STRIDER PROPHECY 0.7G	0.5-2 fl.oz. 1-2 fl.oz. 0.5-2 fl.oz. 0.5-2 fl.oz. 1-2 fl.oz. 1-2 fl.oz. 2.5 lb.	Apply at 7- to 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.
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.

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
DOLLAR SPOT (cont.)		
pyraclostrobin + triticonazole PILLAR G PILLAR G INTRINSIC	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 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 50W 3336F 3336G 3336 PLUS CAVALIER 4.5F CAVALIER WSB FUNGO FLO SYSTEC 1998 F SYSTEC 1998 WDG TEE-OFF T-STORM 3336 DG LITE	2-4 oz. 2-4 fl.oz. 1.5-6 lb. 2-4 oz. 1-2 fl.oz. 2 oz. 1-2 fl.oz. 1-2 fl.oz. 0.6-1.3 oz. 1-2 fl.oz. 1-4 oz. 1.5-6 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. See label for application intervals for 3336 Plus. Apply Systec at 7- to 14-day intervals. Use higher rate at shorter interval when disease is present. For prevention use low rate and apply before symptoms appear or before weather conditions favor disease development. Reapply at 14-day intervals as needed. Rotate with application of chlorothalonil or triadimefon. See label for spreader settings.
thiophanate-methyl + iprodione FLUID FUNGICIDE 26/36 FUNGICIDE TWO SOME	1.1-2.1 fl.oz. 2-4 fl.oz. 1-4 fl.oz.	Golf Courses, Sod Farms, and Institutional Turf: Apply at 7- to 14-day intervals in 4 to 7 gallons of spray volume per 1000 square feet. Use higher rate at shorter intervals when disease appears. DO NOT water or mow within 24 hours of application.
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 T/O BAYLETON FLO FUNGICIDE VII GRANULAR TURF FUNGICIDE	0.25-1 oz. 0.25 fl.oz. 1.3-5.3 lb. 0.75-3 lb.	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. Use Fungicide VII or Granular Turf Fungicide on bentgrass, perennial ryegrass, and bermudagrass. For preventive use, apply low rate on moist or dry foliage at 14-day intervals as needed. If disease appears, apply higher rate at 14-day intervals. May be applied to residential turf by a certified applicator.
trifloxystrobin + triadimefon ARMADA 50WDG TARTAN	0.6-1.2 oz. 1-2 fl.oz.	Apply at 14- to 28-day intervals in 1 to 2 gallons of water per 1,000 square feet when conditions favor disease development.
triticonazole TRINITY TRITON FLO TRITON 70WDG	1-2 fl.oz. 0.28-1.1 fl.oz. 0.15-0.6 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.

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
DOLLAR SPOT (cont.)		
triticonazole + chlorothalonil RESERVE	3.2-4.5 fl.oz.	Begin fungicide applications 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, use the higher rate and shorter interval.
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	2-5.7 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.
TEE-1-UP WDG	4-8 oz.	
DOWNY MILDEW (YELLOW TUFT)		
aluminum tris SIGNATURE	4-8 fl.oz.	Apply at 14- to 21-day intervals as a preventive treatment in 1 to 5 gallons of water per 1000 square feet of turf when conditions favor disease. Do not mow after application. Not intended for home lawn use.
mefenoxam SUBDUE MAXX	0.5-1 fl.oz.	Established Turf: Apply at 10- to 21-day intervals in 3 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.
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.
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		
FAIRY RING		
azoxystrobin HERITAGE TL	2 fl.oz.	Apply Heritage TL in 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.
HERITAGE G	2-4 oz.	
HERITAGE FUNGICIDE	0.4 oz.	
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 1,000 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 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.
chlorothalonil + azoxystrobin RENOWN	2.5-4 fl.oz.	Apply as soon as symptoms appear. Apply in 4 gallons of water per 1,000 square feet (174 GPA). Add a wetting agent to tank mixture. Spray; then irrigate with 0.25 inch of water per 1000 square feet. Repeat at 14-day intervals. Takes several weeks for symptoms to disappear.
fluoxastrobin DISARM 480SC	16 fl.oz.	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.

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
FAIRY RING (cont.)		
fluoastrobilin + chlorothalonil DISARM C	4.5-5.9 fl.oz.	As symptoms appear, apply in 4 gallons of water per 1,000 square feet of treated area. Add a wetting agent to facilitate soil penetration. Reapply at 21- to 28-day intervals.
fluoastrobilin + myclobutanil DISARM M	0.5-1 fl.oz.	Apply when rings first appear and repeat 21 to 28 days later as needed in 4 gallons of water per 1,000 square feet. Use higher rate at shorter interval when disease pressure is high. May be applied to residential turf by a certified applicator.
flutolanil PROSTAR 70WDG	2.2-4.5 oz.	Apply in 10 to 30 gallons of water per 1000 square feet. If needed, make a second application at least 30 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.
metconazole TOURNEY	0.37 fl.oz.	Apply when rings first appear and repeat 21 days later as needed in 4 gallons of water per 1,000 square feet of turf. Aerify or tank mix with wetting agent to improve soil penetration.
polyoxin D zinc salt AFFIRM WDG ENDORSE WP VERANDA T WDG	0.9 oz. 0.25 lb. 1 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 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.	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 TORQUE	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 1,000 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.
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.

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
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 Heritage 50DG per year.
HERITAGE TL	1-2 fl.oz.	
HERITAGE G	4-7 oz.	
HERITAGE FUNGICIDE	0.2-0.4 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 1,000 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 10-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.
DACONIL ULTREX	1.8-5 oz.	
DACONIL WEATHER STIK	2-5.5 fl.oz.	
ECHO 6 ETQ	2-3.6 fl.oz.	
LEGEND	2-3.6 fl.oz.	
MANICUR DG	1.75-6.5 oz.	
MANICUR FLOWABLE	3-11 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 1,000 square feet of turf. See label for use guidelines for golf course greens, tees, and fairways.
DACONIL ACTION	1-3.5 fl.oz.	
	4-5.4 fl.oz.	Curative: Repeat at 7- to 14-day intervals in 1 to 3 gallons of water per 1,000 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-day intervals.
RENOWN	2.5-4 fl.oz.	
chlorothalonil + propiconazole		Use preventively. Apply when conditions favor disease and repeat applications at 7- to 28-day intervals as needed at a rate of 1 gallon of water per 1,000 square feet of turf. Use higher rate at shorter interval when disease pressure is high. Not for use in residential landscapes.
CONCERT II	3-8.5 fl.oz.	
chlorothalonil + propiconazole + fludioxonil		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.
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	3.7-5.7 oz.	
TEE-1-UP	2-8 oz.	
CONSYST WDG	2-4 oz.	
fenarimol + chlorothalonil		Apply at 7- to 10-day intervals. Begin sprays when conditions favor disease.
BROADWAY 4.4F	3-9 fl.oz.	
TWO SOME 4.4F	3-9 fl.oz.	
fluoxastrobin		Begin applications when conditions favor disease and prior to disease symptoms development. Tank mix with another product labeled for gray leaf spot control.
DISARM 480SC	8-16 fl.oz.	
fluoxastrobin + chlorothalonil		Begin applications when conditions favor disease and prior to disease symptoms development. Tank mix with another product labeled for gray leaf spot control.
DISARM C	3-5.9 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
GRAY LEAF SPOT (cont.)		
fluoastrobilin + 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	0.25-0.5 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 fl.oz.	Apply when conditions favor disease and repeat at 14-day intervals as needed.
propiconazole BANNER MAXX BANNER MAXX II PROPICONAZOLE PRO PROPICONAZOLE SPC 14.3MEC PROPENSITY 1.3ME SPECTATOR ULTRA STRIDER	1-2 fl.oz. 1-2 fl.oz. 1-2 fl.oz. 1-2 fl.oz. 1-2 fl.oz. 1-2 fl.oz. 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.
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 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 PILLAR G INTRINSIC	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 fl.oz. 0.6 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.
triadimefon BAYLETON T/O BAYLETON FLO	0.5-1 oz. 0.5-1 fl.oz.	Apply every 14 days. Tank mix Bayleton with a contact fungicide to control moderate to severe outbreaks.
trifloxystrobin COMPASS 50WDG	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.
COMPASS G	3-4 lb.	Apply every 14 days as needed.
trifloxystrobin + triadimefon ARMADA 50WDG TARTAN	0.6-1.2 oz. 1-2 fl.oz.	Apply at 14- to 28-day intervals in 1 to 2 gallons of water per 1,000 square feet when conditions favor disease development. Use higher rate at shorter intervals when disease is present.

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
GRAY LEAF SPOT (cont.)		
triticonazole + chlorothalonil RESERVE	3.2-4.5 fl.oz.	Begin fungicide applications 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, use the higher rate and shorter interval.
HELMINTHOSPORIUM LEAF SPOT AND CROWN ROT (MELTING-OUT)		
azoxystrobin HERITAGE TL HERITAGE G HERITAGE FUNGICIDE	1-2 fl.oz. 2-4 oz. 0.2-0.4 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.
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 1,000 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 risk of disease is high.
chlorothalonil DACONIL ULTREX DACONIL WEATHER STIK ECHO 6 ETQ LEGEND MANICUR DG MANICUR FLOWABLE	1.8-5 oz. 2-5.5 fl.oz. 2-3.6 fl.oz. 2-3.6 fl.oz. 1.75-6.5 oz. 3-11 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 DACONIL ULTREX DACONIL WEATHER STIK ECHO 90DF	5-13.5 lb./A 5.5-15.1 pt./A 4.5-8 lb./A	Golf Course Fairways, Sod Farms, Athletic Fields, Parks: Apply in 30 to 40 gallons per acre when conditions favor disease and repeat as long as conditions persist. Use higher rate and shorter intervals when disease is severe.
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 14-day intervals in 1 to 3 gallons of water per 1,000 square feet of turf. See label for use guidelines for golf course greens, tees, and fairways. Curative: Repeat at 7- to 14-day intervals in 1 to 3 gallons of water per 1,000 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 fl.oz.	Use preventatively. Begin applications when conditions favor disease and prior to disease symptoms development. Repeat at 14-day intervals.
chlorothalonil + propiconazole ECHO/PROPICONAZOLE EC CO-PACK CONCERT II	2.0 + 0.36 fl.oz. 3.5-8.5 fl.oz.	Golf Courses and Sod Farms: Apply at 14-day intervals in a minimum of 0.3 gallons of water per 1,000 square feet when conditions favor disease development. Use preventively. Apply when conditions favor disease and repeat applications at 7- to 28-day intervals as needed at a rate of 1 gallon of water per 1,000 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 21 to 28 days. Use higher rate at shorter interval under high disease pressure.
chlorothalonil + tebuconazole E-SCAPE ETQ	2.6 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 six applications may be made per year.

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.)		
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	2-5.7 oz.	
TEE-1-UP	2-8 oz.	
CONSYST WDG	2-4 oz.	
fenarimol + chlorothalonil		Apply on a 2- to 3-week spray schedule.
BROADWAY 4.4F	2-4 fl.oz.	
TWO SOME 4.4F	2-4 fl.oz.	
fluoxastrobin		Begin applications when conditions favor disease and prior to disease symptoms development. Repeat as needed at 14- to 21-day intervals.
DISARM 480SC	8-16 fl.oz.	
fluoxastrobin + chlorothalonil		Begin applications when conditions favor disease and repeat as needed every 14 to 28 days. Apply in 1 to 4 gallons per 1,000 square feet of turf area.
DISARM C	3-5.5 fl.oz.	
fluoxastrobin + myclobutanil		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.
DISARM M	0.25-1 fl.oz.	
fludioxonil		Begin applications before disease symptoms are seen. Repeat applications at 14- to 21-day intervals. Use higher rate at shorter interval when disease symptoms are seen. For best results, use as part of comprehensive preventive control program.
MEDALLION	0.25-0.5 oz.	
iprodione		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.
IPRODIONE PRO 2SE	2-4 fl.oz.	
IPRODIONE SPC FUNGICIDE	2-4 fl.oz.	
CHIPCO 26019 50W	1.5-2 oz.	
26GT FLO	3-4 fl.oz.	
FUNGICIDE X	2.4-4.8 lb.	Apply Fungicide X to moist or dry foliage when weather conditions favor disease. Repeat at 14-day intervals as needed. Make no more than six applications per year. See label for accurate spreader settings. For use on golf courses ONLY .
iprodione + thiophanate-methyl		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	2-4 fl.oz.	
iprodione + trifloxystrobin		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.
INTERFACE	3-5 fl.oz.	
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 T/O RAINSHIELD	4 oz.	
4 FLOWABLE MANCOZEB	6.4 fl.oz.	
FORE 80W	4 oz.	
MANCOZEB DG	4 oz.	
PROTECT T/O	4 oz.	
myclobutanil		Apply 2 to 3 gallons of spray solution per 1000 square feet of turf every 14 to 21 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.	
ENDORSE WP	0.25 lb.	

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.)		
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	1-2 fl.oz.	
BANNER MAXX II	1-2 fl.oz.	
PROPICONAZOLE PRO	1-2 fl.oz.	
PROPICONAZOLE SPC 14.3MEC	1-2 fl.oz.	
PROPENSITY 1.3ME	1-2 fl.oz.	
SPECTATOR ULTRA	1-4 fl.oz.	
STRIDER	1-4 fl.oz.	
PROPHECY 0.7G	2.5 lb.	For control of light to moderate disease outbreaks. Apply at 14-day intervals. See label for spreader settings.
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 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		
thiophanate-methyl + iprodione		Golf Courses, Sod Farms, and Institutional Turf: Apply at 1- to 2-week intervals in 4 to 7 gallons of water per 1000 square feet. Use higher rate and/or shorter intervals when disease appears. DO NOT water or mow within 24 hours of application.
FLUID FUNGICIDE	1.1-2.1 fl.oz.	
26/36 FUNGICIDE	2-4 fl.oz.	
TWO SOME	1-4 fl.oz.	
trifloxystrobin		Apply every 14 days when conditions favor disease. High rate may be applied at 21-day intervals. Repeat as needed.
COMPASS 50WDG	0.15-0.25 oz.	
COMPASS G	2-5 lb.	
trifloxystrobin + triadimefon		Apply at 14- to 28-day intervals in 1 to 2 gallons of water per 1,000 square feet when conditions favor disease development. Use higher rate at shorter intervals when disease is present.
ARMADA 50WDG	0.6-1.2 oz.	
TARTAN	1-2 fl.oz.	
triticonazole		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.
TRINITY	0.5-2 fl.oz.	
TRITON 70WDG	0.15-0.6 oz.	
triticonazole + chlorothalonil		Begin fungicide applications 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, use the higher rate and shorter interval.
RESERVE	3.2-4.5 fl.oz.	
NEMATODES		
1,3 dichloropropene		Curfew is a postplant fumigant for control of nematodes on bentgrass and bermudagrass greens and tees. Custom application only.
CURFEW	—	
abamectin		Apply in early morning or irrigate area with 0.1 inch water prior to treatment. Make three to four consecutive applications at 14- to 21-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.
AVID 0.15EC	1.3 fl.oz. (57 fl.oz./A)	

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
NEMATODES (cont.)		
<i>Bacillus firmus</i> (strain I-1582) NORTICA	0.7-2.3 lb.	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.
chitin and other organic nitrogen sources CLANDOSAN 618 25G	45-140 lb. (1-3 T./A)	Irrigate with 0.5 inch of water immediately after treatment with all products to avoid foliar burn. Clandosan contains 10.4 percent urea.
fermented solutes of <i>Myrothecium verrucaria</i> DiTERA	0.3-2.3 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.
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.
<i>Pasteuria usage</i> ECONEM	2-10 lb.	Apply prior to, during, and after turf green-up in 3- to 4-week intervals using calibrated, standard granule application equipment such as a drop spreader. For best control, a minimum of three sequential applications is required. For warm-season grasses, these green-up periods may be in early spring and again in later summer. Apply 0.1 inch water immediately following all applications. Use the higher application rates on sites with high sting nematode populations (more than 60 sting nematodes per 100 cubic centimeters of soil), on areas with extensive nematode damage such as bare turf areas, on dying turf areas, or on turf with root systems less than 0.8 to 1.2 inches in length.
PYTHIUM BLIGHT		
aluminum tris SIGNATURE	4-8 fl.oz.	Apply at 14- to 21-day intervals as a preventive treatment in 1 to 5 gallons of water per 1000 square feet of turf when conditions favor disease. Do not mow after application.
azoxystrobin HERITAGE TL	2 fl.oz.	Apply at 14- to 28-day intervals when conditions favor disease. Use highest rate at the shortest interval when disease is present.
HERITAGE G	2-4 oz.	DO NOT apply more than six times per year. See label for resistance management guidelines.
HERITAGE FUNGICIDE	0.4 oz.	
azoxystrobin + propiconazole HEADWAY	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 1,000 square feet of turf.
chloroneb FUNGICIDE V	4 oz.	Apply at 5- to 10-day intervals when conditions favor disease.
TEREMEC SP 65W	4 oz.	
chloroneb + thiophanate-methyl FUNGICIDE IX	1.9-5.8 lb.	Apply to wet foliage at 5- to 7-day intervals when conditions favor disease. Increase rate when symptoms appear. See label for spreader settings.
chlorothalonil + acibenzolar S-methyl DACONIL ACTION	2-3.5 fl.oz.	For Suppression of Pythium Blight, Preventive: Apply before symptoms appear and when conditions favor disease. Repeat at 7- to 21-day intervals in 1 gallon of water per 1,000 square feet of turf. See label for use guidelines for golf course greens, tees, and fairways. Not for use in residential landscapes.

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
PYTHIUM BLIGHT (cont.)		
chlorothalonil + azoxystrobin RENOWN	4 fl.oz.	Use preventively. Begin applications when conditions favor disease and prior to disease symptoms development. Repeat at 10-day intervals.
cyazofamid SEGWAY	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 mefenozam or fosetyl-Al (Group 21 fungicide).
	0.45 fl.oz.	Newly Seeded Turf: Apply immediately after seeding in 2 to 4 gallons of water per 1000 square feet of turf.
etridiazole KOBAN 30W	2-4.5 oz.	Established Turf: Apply at 5- to 10-day intervals in 5 gallons of water per 1000 square feet when conditions favor disease.
	4.5 oz.	Newly Seeded Turf: Apply in 5 to 10 gallons of water per 1000 square feet immediately after seeding and irrigate promptly. Repeat application 5 to 7 days later with recommended fungicide to maintain control. For overseeded cool-season grasses.
TERRAZOLE 35W	2-4 oz.	Golf Course Greens and Tees: Apply in 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 480SC	12-16 fl.oz.	Begin applications when conditions favor disease and before symptoms appear. Repeat applications as needed on a 14- to 28-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 fl.oz.	Use as a preventive treatment. Begin applications when conditions favor disease and repeat as needed every 14 to 28 days. Apply in 1 to 4 gallons per 1,000 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.
fosetyl-Al ALIETTE T/O PRODIGY (SIGNATURE DG)	4 oz. 4 oz.	Apply when conditions favor disease at 14- to 21-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. Fosetyl-Al is not compatible with flowable formulations of Daconil 2787 (4F or 6F) or Fore Fungicide.

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
PYTHIUM BLIGHT (cont.)		
mefenoxam ²		Established Turf: Apply at 10- to 14-day intervals. Use higher rate at shorter intervals when disease is severe.
PYTHIUM CONTROL	0.8-1.5 lb.	
MEFENOXAM 2AQ	0.5-1 fl.oz.	Newly Seeded Turf: Apply immediately after seeding and repeat treatments when conditions favor disease.
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.
	0.5-1 fl.oz.	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.
SUBDUE GR	5-25 oz.	Established Turf: Apply uniformly as a preventive treatment. Repeat every 10 to 14 days when conditions favor disease. Irrigate at once with 0.25 to 0.5 inch of water. 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		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.
ALLUDE	5-10 fl.oz.	
MAGELLAN	4.1 fl.oz.	
propamocarb		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.
BANOL 66.5L	1.33-4 fl.oz.	
pyraclostrobin		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	0.9 oz.	
INSIGNIA 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 before symptoms appear. Repeat applications at 14- to 28-day intervals as needed. Will not control active Pythium blight.
HONOR INTRINSIC	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. Also labeled for control of Pythium root dysfunction.
PILLAR G	3 lb.	
PILLAR G INTRINSIC		

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
RUST		
azoxystrobin		Apply at 14- to 21-day intervals when conditions favor disease.
HERITAGE TL	1-2 fl.oz.	
HERITAGE G	2-4 oz.	
HERITAGE FUNGICIDE	0.4 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 1,000 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 + azoxystrobin		Use preventively. Begin applications when conditions favor disease and prior to disease symptoms development. Repeat at 14-day intervals.
RENOWN	2.5-4 fl.oz.	
chlorothalonil + propiconazole		Use preventively. Apply when conditions favor disease and repeat applications at 14- to 21-day intervals as needed at a rate of 1 gallon of water per 1,000 square feet of turf. Use higher rate at shorter interval when disease pressure is high. Not for use in residential landscapes.
CONCERT II	4.5-8.5 fl.oz.	
fluoxastrobin + chlorothalonil		Apply when conditions favor disease or at first sign of symptoms. Repeat as needed on a 14- to 28-day schedule.
DISARM C	3-5.9 fl.oz.	
fluoxastrobin + myclobutanil		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.
DISARM M	0.25-1 fl.oz.	
iprodione + trifloxystrobin		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.
INTERFACE	3-5 fl.oz.	
mancozeb		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 T/O RAINSHIELD	4 oz.	
4 FLOWABLE MANCOZEB	6.4 fl.oz.	
FORE 80W	4 oz.	
MANCOZEB DG	4 oz.	
PROTECT T/O	4 oz.	
metconazole		Apply when conditions favor disease and repeat applications at 14-day intervals as needed.
TOURNEY	0.37 fl.oz.	
myclobutanil		Apply 2 to 3 gallons of spray solution per 1000 square feet of turf at 14- to 28-day intervals when conditions favor disease.
EAGLE 20EW	1.2 fl.oz.	
propiconazole		Apply in 2 to 5 gallons of water per 1000 square feet before symptoms appear. Repeat at 14- to 28-day intervals as needed.
BANNER MAXX	1-2 fl.oz.	
BANNER MAXX II	1-2 fl.oz.	
PROPICONAZOLE PRO	1-2 fl.oz.	
PROPENSITY 1.3ME	1-2 fl.oz.	
SPECTATOR ULTRA	1-2 fl.oz.	
STRIDER	1-2 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.	

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
RUST (cont.)		
INSIGNIA 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 PILLAR G INTRINSIC	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 fl.oz. 0.6 fl.oz.	Golf Course Turf: Apply in 1 to 3 gallons of water per 1,000 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 T/O BAYLETON FLO	0.5-1 oz. 0.5-1 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 50WDG	0.1-0.15 oz. 0.2-0.25 oz.	Apply at 14-day intervals as needed. Apply at 21-day intervals as needed.
COMPASS G	2-5 lb.	Apply at 14- to 21-day intervals.
trifloxystrobin + triadimefon ARMADA 50WDG	0.6-1.2 oz.	Apply at 14- to 28-day intervals in 1 to 2 gallons of water per 1,000 square feet when conditions favor disease development. Use higher rate at shorter intervals when disease is present.
triticonazole TRINITY TRITON FLO TRITON 70WDG	0.5-1 fl.oz. 0.28-0.55 fl.oz. 0.15-0.3 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.
triticonazole + chlorothalonil RESERVE	3.2-4.5 fl.oz.	Begin fungicide applications 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, use the higher rate and shorter interval.
SPRING DEAD SPOT (SDS)		
azoxystrobin HERITAGE TL HERITAGE FUNGICIDE	2 fl.oz. 0.4 oz.	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.
azoxystrobin + propiconazole HEADWAY HEADWAY G	3 fl.oz. 2-4 lb.	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 1,000 square feet of turf. 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 E-SCAPE ETQ	2.6 fl.oz.	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.

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
SPRING DEAD SPOT (SDS) (cont.)		
fenarimol RUBIGAN AS	4-6 fl.oz.	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.
fluoxastrobin DISARM 480SC	16 fl.oz.	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.
fluoxastrobin + chlorothalonil DISARM C	5.9 oz.	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..
fluoxastrobin + myclobutanil DISARM M	0.5-1 fl.oz.	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.
myclobutanil 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 BANNER MAXX II PROPICONAZOLE PRO PROPICONAZOLE SPC 14.3MEC PROPENSITY 1.3ME SPECTATOR ULTRA STRIDER PROPHECY 0.7G	4 fl.oz. 1-2 fl.oz. 4 fl.oz. 4 fl.oz. 4 fl.oz. 4 fl.oz. 4 fl.oz. 4 fl.oz. 5.0 lb.	Make one to three applications at 30-day intervals beginning in August. Follow one or two fall applications with one or two spring applications. See label for spreader settings.
tebuconazole CLEARSCAPE ETQ TORQUE	0.6 fl.oz. 0.6 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 4.5F 3336 50W 3336 G	4-8 fl.oz. 4-8 oz. 6-12 lb.	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 TRITON FLO TRITON 70WDG	0.5-1.0 fl.oz. 0.55-1.1 fl.oz 0.15-0.6 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.

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
TAKE-ALL PATCH, TAKE-ALL ROOT ROT, BERMUDAGRASS DECLINE		
azoxystrobin		Make two applications at 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.
HERITAGE 50W	2 fl.oz.	
HERITAGE G	2-4 oz.	
HERITAGE FUNGICIDE	0.4 oz.	
azoxystrobin + propiconazole		Apply once or twice in early spring before disease development occurs. Reapply after 14- to 28-day in 2 to 4 gallons of water per 1,000 square feet of turf.
HEADWAY	3 fl.oz.	
HEADWAY G	3.5-4 lb.	Apply twice at 14- to 28-day intervals in spring and again in fall. Irrigate with 0.5 inch of water within 24 hours of application.
chlorothalonil + azoxystrobin		Use preventatively in fall and spring. Apply when conditions favor disease and prior to disease symptoms development. Repeat after 30 days.
RENOWN	4 fl.oz.	
chlorothalonil + propiconazole		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 1,000 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.
CONCERT II	8.5 fl.oz.	
chlorothalonil + tebuconazole		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.
E-SCAPE ETQ	2.6 fl.oz.	
fluoxastrobin		Make two applications in spring and fall with 30-day intervals between applications. Apply 0.25 to 0.5 inch of water after application to move Disarm into root zone.
DISARM 480SC	16 fl.oz.	
fluoxastrobin + myclobutanil		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.
DISARM M	0.5-1 fl.oz.	
metconazole		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.
TOURNEY	0.37 fl.oz.	
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	2-4 fl.oz.	
BANNER MAXX II	1-2 fl.oz.	
PROPICONAZOLE PRO	2-4 fl.oz.	
PROPICONAZOLE SPC 14.3MEC	2-4 fl.oz.	
PROPENSITY 1.3ME	2-4 fl.oz.	
SPECTATOR ULTRA	4 fl.oz.	
STRIDER	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. Apply in 2 to 4 gallons of water per 1000 square feet.
INSIGNIA	0.9 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		

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
TAKE-ALL PATCH, TAKE-ALL ROOT ROT, BERMUDAGRASS DECLINE (cont.)		
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 fl.oz.	
TORQUE	0.6 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 T/O	1-2 oz.	
BAYLETON FLO	1-2 fl.oz.	
BAYLETON T/O	2 oz.	
BAYLETON FLO	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.
TARTAN	1.5-2 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.	
TRITON FLO	0.55-1.1 fl.oz	
TRITON 70WDG	0.3-0.6 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 28-day intervals.
HERITAGE TL	1-2 fl.oz.	
HERITAGE G	2-4 oz.	
HERITAGE FUNGICIDE	0.4 oz.	
fludioxonil		Begin applications prior to appearance of symptoms and reapply at 14- to 28-day intervals. For best disease control, tank mix with 1 to 2 fluid ounces per 1,000 square feet of Banner Maxx,
MEDALLION	0.5 oz.	
flutolanil		Apply at 30-day intervals as needed.
PROSTAR 70WDG	2.2 oz.	
ipiodione		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.
CHIPCO 26019	2 oz.	
CHIPCO FLO	3-4 fl.oz.	
26GT FLO	3-4 fl.oz.	
metconazole		Apply when conditions favor disease and repeat applications at 14-day intervals as needed.
TOURNEY	0.37 fl.oz.	
myclobutanil		Make a single application in fall before turf goes dormant.
EAGLE 20EW	2-4 fl.oz.	
propiconazole		To control zoysia patch, make one application in early fall before symptoms appear.
BANNER MAXX	3-4 fl.oz.	
BANNER MAXX II	1-2 fl.oz.	
PROPICONAZOLE PRO	3-4 fl.oz.	
PROPICONAZOLE SPC 14.3MEC	3-4 fl.oz.	
PROPENSITY 1.3ME	3-4 fl.oz.	
STRIDER	3-4 fl.oz.	

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
ZOYSIA PATCH, COOL WEATHER BROWN PATCH, OR YELLOW PATCH OF ZOYSIAGRASS (cont.)		
pyraclostrobin + triticonazole PILLAR G PILLAR G INTRINSIC	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.
tebuconazole CLEARSCAPE ETQ TORQUE	0.6 fl.oz. 0.6 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.
thiophanate-methyl + ipiodione 26/36 FUNGICIDE	2-4 fl.oz.	Golf Courses, Sod Farms, and Institutional Turf: Apply in 1 to 10 gallons of water per 1,000 square feet when conditions favor disease. Reapply as needed to maintain disease control.
triadimefon BAYLETON T/O BAYLETON FLO	1-2 oz. 1-2 fl.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.
triticonazole TRITON FLO TRITON 70WDG	0.55-1.1 fl.oz. 0.3-0.6 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 99G	222-350 lb. (5-8.1 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 TELONE II	9-15 gal.	
dichloropropene + chloropicrin TELONE C-17 TERR-O-CIDE 30D	11-17 gal. 15-25 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
etridiazole KOBAN 30W	4.5-7 oz.	Add to seed in commercial seed treatment equipment. Mix until thorough coverage is obtained.
mefenoxam APRON FL APRON 25W APRON DRY SEED PROTECTION 12.5W	1.5 fl.oz. 2-4 oz. 4-8 oz.	Apply as water slurry with commercial seed treatment equipment. Apply just prior to planting. Thoroughly mix seed with product for maximum seed coverage.

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.



2019 IPM-1291

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.

Alabama Cooperative Extension System (Alabama A&M University and Auburn University) is committed to affirmative action, equal opportunity and the diversity of its workforce. Educational programs serve all people regardless of race, color, national origin, age, disability, sex, gender identity, marital status, family/parental status, religion, sexual orientation, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program.

© 2019 by the Alabama Cooperative Extension System. All rights reserved.

www.aces.edu