



DISEASE AND NEMATODE CONTROL

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

Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
Algae			
	chlorothalonil		Apply at 7- to 14-day intervals in 2 to 10 gallons of water per 1000 square feet as needed. See label for additional instructions. DO NOT use on residential lawns.
	DACONIL WEATHER STIK	2-0.36 fl.oz.	
	DACONIL ULTREX	1.8-5 oz. (5-13.5 lb./A)	
	LEGEND	2-3.6 fl.oz.	
	chlorothalonil + acibenzolar S-methyl		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.
	DACONIL ACTION	2-3.5 fl.oz.	
	mancozeb		Apply as needed to affected areas. <i>For professional use only.</i>
	DITHANE T/O	6 oz.	
	RAINSHIELD		
	4 FLOWABLE MANCOZEB	9.6 fl.oz.	
	FORE 80W	6 oz.	
	MANCOZEB DG	6 oz.	
	PROTECT T/O	6 oz.	
	triticonazole		For curative control add chlorothalonil or mancozeb to tank mixture. Repeat as needed at 14- to 28-day intervals.
	TRINITY	0.5-1 fl.oz.	
	TRITON 70WDG	0.15-0.6 oz	
Anthracnose			
	azoxystrobin		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.
	HERITAGE TL	1-2 fl.oz.	
	HERITAGE G	2-4 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.

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Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
Anthracnose (cont.)			
	chlorothalonil DACONIL ULTREX	1.8-5 oz.	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 WEATHER STIK	2-5.5 fl.oz.	
	ECHO 720	3.6-5.5 fl.oz.	
	LEGEND	3-3.6 fl.oz.	
	chlorothalonil + acibenzolar S-methyl DACONIL ACTION	3-5.4 fl.oz.	Apply before symptoms appear and when conditions favor disease. Repeat at 7- to 14-day intervals in 1 gallon of water per 1,000 square feet of turf. See label for use guidelines for golf course greens, tees, and fairways.
	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	4.5-8.5 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 INSTRATA	2.75-6.0 fl.oz.	USE AS PREVENTIVE TREATMENT: Begin applications when conditions favor disease and repeat as needed every 14 to 28 days. Use higher rate at shorter interval under high disease pressure.
	chlorothalonil + thiophanate-methyl SPECTRO 90 CONSYST WDG TEE-1-UP	3.7-5.7 oz. 2-4 oz. 2-4 oz.	GOLF COURSES, SOD FARMS, COMMERCIAL AND INSTITUTIONAL GROUNDS: Apply in 2 to 4 gallons of water per 1000 square feet every 7 to 14 days as needed. See label for additional instructions.
	fenarimol RUBIGAN AS	1.75-3.5 fl.oz.	Begin sprays before symptoms appear; apply at 30-day intervals as long as conditions favor disease.
	fludioxonil MEDALLION	0.25-0.5 oz.	Begin applications before disease symptoms are seen. Repeat applications at 14-day intervals. For best results, use as part of comprehensive preventive control program.
	fluoaxastrobin 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.
	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.
	fluoaxastrobin + chlorothalonil DISARM C	3-5.9 fl.oz.	FOLIAR BLIGHT ON BENTGRASS: Begin applications when conditions favor disease and repeat as needed every 14 to 28 days. Apply in 1 to 4 gallons per 1,000 square feet of turf area.
		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.
	fluoaxastrobin + myclobutanil DISARM M	0.25-1 fl.oz.	Use preventively. Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed. Use higher rate at shorter interval when disease pressure is high. May be applied to residential turf by a certified applicator.

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Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
Anthracnose (cont.)			
	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	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 PROPICONOZOLE PRO 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.	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.
	tebuconazole TORQUE	0.6 fl.oz.	Apply when conditions favor disease. Do not make more than two consecutive applications of Torque. Alternate applications of Torque with another fungicide with a different mode of action. A second application may be made after 28 days.
	thiophanate-methyl 3336F 3336G 3336 WP 3336 PLUS CAVALIER 4.5F CAVALIER 2G CAVALIER WSB SYSTEC 1998 F SYSTEC 1998 50W TEE-OFF 4.5E SYSTEMIC FUNGICIDE 3336 DG LITE	2-8 fl.oz. 6-12 lb. 2-8 oz. 2-8 oz. 4-8 fl.oz. 3-9 lb. 2-8 oz. 1-2 fl.oz. 0.7-1.3 oz. 4-8 fl.oz. 1.35-2.7 lb. 3-9 oz.	Apply when disease first appears and repeat at 7- to 14-day intervals as needed. Allow spray to dry before watering. Use higher rate at shorter intervals for curative control.
			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.

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Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
Anthracnose (cont.)			
	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 days when conditions favor disease.
	COMPASS 50W	0.15-0.2 oz.	Apply every 21 days as needed when conditions favor disease.
	COMPASS G	5 lb.	May be tank mixed with Bayleton T/O to control dollar spot.
	trifloxystrobin + triadimefon		Apply at 14-day intervals in 1 to 2 gallons of water per 1,000 square feet when conditions favor disease development. Apply at 14- to 28-day intervals.
	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.
	TRINITY	0.5-1 fl.oz.	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.
	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.	
Bermudagrass Decline			
	thiophanate-methyl		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.
	3336 DG LITE	6-9 oz.	
Brown Patch			
	azoxystrobin		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.
	HERITAGE TL	1-2 fl.oz.	
	HERITAGE G	2-4 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	0.75-3 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.

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Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
Brown Patch (cont.)			
	chlorothalonil		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 ULTREX	1.8-5 oz.	
	DACONIL WEATHER STIK	2-5.5 fl.oz.	
	ECHO 720	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		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 ULTREX	5-13.5 lb./A	
	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	
	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	2-3.5 fl.oz.	
		4-5.4 fl.oz.	CURATIVE: Repeat at 7- to 14-day intervals in 1 to 3 gallons of water per 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 + 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	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		Begin applications when conditions favor disease and repeat as needed every 14 to 21 days. Use higher rate at shorter interval under high disease pressure.
	INSTRATA	2.75-6.0 fl.oz.	
	chlorothalonil + 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.	
	CONSYST WDG	2-4 oz.	
	TEE-1-UP	2-4 oz.	
	fenarimol		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.
	RUBIGAN AS	1.5 fl.oz.	
	fenarimol + chlorothalonil		Apply at 7- to 10-day intervals. Begin sprays when conditions favor disease.
	BROADWAY 4.4F	3-6 fl.oz.	
	TWO SOME 4.4F	3-6 fl.oz.	
	fludioxonil		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.
	MEDALLION	0.25-0.5 oz.	

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Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
Brown Patch (cont.)			
	fluoaxastrobin DISARM 480SC	4-16 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.
	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.
	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 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.
	flutolanil PROSTAR 70W	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 CHIPCO 26019 50W	2-4 fl.oz. 1-2 oz. (9-13 T.)	Apply at 14- to 28-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 + 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.
	mancozeb DITHANE T/O RAINSHIELD 4 FLOWABLE MANCOZEB FORE 80W	4 oz. 6.4 fl.oz. 4 oz. (10-27 T.)	Apply at 7- to 14-day intervals in 3 to 5 gallons per 1000 square feet when disease threatens. Use the high rate at shortest spray interval when disease is severe. Tank-mix with Eagle under severe disease conditions. For professional use only.
	MANCOZEB DG PROTECT T/O	4 oz. 4 oz.	
	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 at 14-day intervals in 1 to 3 gallons of water per 1000 square feet. See label for restrictions. If disease appears, tank-mix with recommended rate of Dithane T/O or Fore. Use higher rate at shorter intervals when disease is active.
	PCNB DEFEND 2F DEFEND 10G REVERE 75W REVERE 4000 TURFCIDE 10G TURFCIDE 400	1 qt. 7.5 lb. 1 lb. 16-24 fl.oz. 7.5 lb. 16-24 fl.oz.	Apply in 10 to 15 gallons to cover 1000 square feet and repeat every 3 to 4 weeks. Lightly water after application. See label for setting granular spreaders.

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Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
Brown Patch (cont.)			
	polyoxin D zinc salt AFFIRM	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.
	ENDORSE WP	0.25 lb.	
	VERANDA T WDG	2.4 lb./A	
	propiconazole BANNER MAXX BANNER MAXX II PROPICONAZOLE PRO 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.	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.
	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 INSIGNIA	0.5-0.9 oz.	Begin applications when conditions favor disease development and before symptoms are seen. Repeat at 14- to 28-day intervals. Apply in 2 to 4 gallons of water per 1000 square feet. Use higher rate at longer treatment interval. See label for resistance management recommendations.
	INSIGNIA INTRINSIC	0.4-0.7 fl.oz.	Use preventively. Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed. Use higher rate at shorter interval when disease pressure is high. Do not make more than three consecutive applications of Insignia.
	pyraclostrobin + boscalid HONOR INTRINSIC	0.55-1.1 oz.	GOLF COURSE TURF: Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed.
	tebuconazole TORQUE	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 28 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 4.5F T-STORM 50W	4-8 oz. 1-2 fl.oz. 1.5-3 lb. 4-8 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.	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 DG LITE	1.5-6 oz.	Apply Systec at 7- to 14-day intervals. Use higher rate at shorter intervals when disease is present.
	thiophanate-methyl + chlorothalonil CONSYST TEE-1-UP	3-8 oz. 2-8 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.
	thiophanate-methyl + iprodione FLUID FUNGICIDE 26/36 FUNGICIDE TWO-SOME	1.1-2.1 fl.oz. 2-4 fl.oz. 1-4 fl.oz.	Apply at 7- to 14-day intervals. Use higher rate at shorter intervals when disease is present.
			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.

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Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
Brown Patch (cont.)			
	triadimefon BAYLETON T/O BAYLETON FLO	0.5-1 oz. 0.5 fl.oz.	Apply at 15- to 30-day intervals in 2 to 4 gallons of water per 1000 square feet. Use higher rate and shorter intervals when disease appears.
	FUNGICIDE VII GRANULAR TURF FUNGICIDE	2.7-5.3 lb. 1.5-3 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.
	trifloxystrobin COMPASS 50W	0.1-0.2 oz. 0.15-0.25 oz.	Apply every 14 days when conditions favor disease and repeat as needed. Apply every 21 days when conditions favor disease and repeat as needed.
	COMPASS G	2-5 lb.	Does not control dollarspot. No PGR activity on bentgrass or bermudagrass.
	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	0.75-2 fl.oz. 0.41-1.1 fl.oz. 0.225-0.6 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. May be tank mixed with 26GT or ProStar for improved brown patch control.
	triticonazole + chlorothalonil RESERVE	3.2-5.4 fl.oz.	Begin fungicide applications preventively when conditions are favorable for disease development. Continue as needed at 14- to 28-day intervals.
	vinclozolin CURALAN EG TOUCHÉ EG	1 oz. 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.
Dollar Spot			
	azoxystrobin + propiconazole HEADWAY	0.75-1.5 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. Tank mix with Daconil for application on non-residential turf.
	HEADWAY G	2-4 lb.	Apply when conditions favor disease and repeat applications at 14- to 28-day intervals as needed. Alternate applications with Daconil. Use higher rate at shorter interval when disease pressure is high.
	boscalid EMERALD	0.13-0.18 oz.	GOLF COURSE USE ONLY: Begin applications prior to or at early stages of the disease. Repeat applications at 14- to 28-days. Use shorter interval and/or higher rate when conditions favor disease. Apply in 2 to 4 gallons of water per 1000 square feet.

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Disease	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 720	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 + 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	2.75-6.0 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)	

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Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
Dollar Spot (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 + 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.
	iprodione IPRODIONE PRO 2SE CHIPCO 26019 50W 26GT FLO	2-4 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 .
	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 PROPENSITY 1.3ME SPECTATOR ULTRA STRIDER	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.	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.
	PROPHECY 0.7G	2.5 lb.	Apply Prophecy 0.7G at 14- to 28-day intervals when conditions favor disease. To reduce the risk of control failures due to resistance, make no more than three consecutive applications of this or another triazole-type fungicide. See label for spreader settings.
	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.
	tebuconazole TORQUE	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 28 days. Torque is a group 3 triazole fungicide.

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Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹	
Dollar Spot (cont.)				
	thiophanate-methyl 3336 50W	2-4 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.	
	3336F	2-4 fl.oz.		
	3336G	1.5-6 lb.		
	3336 PLUS	2-4 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.		Apply Systec at 7- to 14-day intervals. Use higher rate at shorter interval when disease is present.
	SYSTEC 1998 WDG	0.6-1.3 oz.		
	TEE-OFF	1-2 fl.oz.		
	T-STORM	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.	
	thiophanate-methyl + iprodione FLUID FUNGICIDE	1.1-2.1 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.	
	26/36 FUNGICIDE	2-4 fl.oz.		
	TWOSOME	1-4 fl.oz.		
	triadimefon BAYLETON T/O	0.25-1 oz.	Apply Bayleton at 30-day intervals in 2 to 4 gallons of water per 1000 square feet. When disease is present, use full rate; then reduce rate for subsequent applications. 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.	
	BAYLETON FLO	0.25 fl.oz.		
	FUNGICIDE VII GRANULAR TURF FUNGICIDE	1.3-5.3 lb. 0.75-3 lb.		
	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.	
	TARTAN	1-2 fl.oz.		
	triticonazole TRINITY	1-2 fl.oz.	Apply preventively when conditions are favorable for disease development. Continue as needed at 14- to 28-day intervals. Under conditions for severe disease or for an early curative application , apply the higher rate at a shorter interval. Do not use on ultradwarf bermudagrass cultivars.	
	TRITON FLO	0.28-1.1 fl.oz		
	TRITON 70WDG	0.15-0.6 oz.		
	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.	

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Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
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.
Fairy Ring			
	azoxystrobin HERITAGE TL HERITAGE G	2 fl.oz. 2-4 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.
	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.
	fluoxastrobin + 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.
	fluoxastrobin + myclobutanil DISARM M	0.5-1 fl.oz.	Apply when rings first appear and repeat 21 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.
	flutolanil PROSTAR 70W	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 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	0.4-0.7 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.

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Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
Fairy Ring (cont.)			
	pyraclostrobin + boscalid HONOR INTRINSIC	0.55-1.1 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.
	tebuconazole TORQUE	0.6 fl.oz.	PREVENTIVE: Apply in spring before ring symptoms appear or when ring patterns are present. Apply in 1.5 to 3 gallons of water per 1,000 square feet and water in within 4 hours of application . Do not exceed a 28-day interval between applications.
		0.6 fl.oz.	CURATIVE: Apply as a foliar spray in 1 to 3 gallons of water per 1000 square feet of turf and irrigate within 4 hours. Make a second application after 28 days as needed to suppress symptoms.
Gray Leaf Spot			
	azoxystrobin HERITAGE TL HERITAGE G	1-2 fl.oz. 4-7 oz.	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.
	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.
	chlorothalonil DACONIL ULTREX DACONIL WEATHER STIK ECHO 720 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.	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. DO NOT use on residential lawns.
	chlorothalonil + acibenzolar S-methyl DACONIL ACTION	1-3.5 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 + propiconazole 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 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.

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Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
Gray Leaf Spot (cont.)			
	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 + thiophanate-methyl SPECTRO 90 TEE-1-UP CONSYST WDG	3.7-5.7 oz. 2-4 oz. 2-4 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.
	fenarimol + chlorothalonil BROADWAY 4.4F TWO SOME 4.4F	3-9 fl.oz. 3-9 fl.oz.	Apply at 7- to 10-day intervals. Begin sprays when conditions favor disease.
	fluoxastrobin + chlorothalonil DISARM C	3-5.9 fl.oz.	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.
	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.
	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.
	propiconazole BANNER MAXX BANNER MAXX II PROPICONAZOLE PRO 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.	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.
	tebuconazole TORQUE	0.6 fl.oz.	GOLF COURSE TURF: Apply in 1 to 3 gallons of water per 1000 square feet when conditions favor disease and before symptoms appear. Reapply after 28 days. A contact fungicide may be added to enhance disease control.
	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.

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Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
Gray Leaf Spot (cont.)			
	trifloxystrobin COMPASS 50W	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.
	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	1-2 fl.oz. 2-4 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 720 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 + 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.

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Disease	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 + 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 + thiophanate-methyl SPECTRO 90 TEE-1-UP CONSYST WDG	2-5.7 oz. 2-4 oz. 2-4 oz.	GOLF COURSES, SOD FARMS, COMMERCIAL AND INSTITUTIONAL GROUNDS: Apply in 2 to 4 gallons of water per 1000 square feet every 7 to 14 days as needed. See label for additional instructions.
	fenarimol + chlorothalonil BROADWAY 4.4F TWO SOME 4.4F	2-4 fl.oz. 2-4 fl.oz.	Apply on a 2- to 3-week spray schedule.
	fluoxastrobin + chlorothalonil DISARM C	3-5.5 fl.oz.	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.
	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.
	fludioxonil MEDALLION	0.25-0.5 oz.	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.
	iprodione IPRODIONE PRO 2SE CHIPCO 26019 50W 26GT FLO	2-4 fl.oz. 1.5-2 oz. 3-4 fl.oz.	GOLF COURSES, SOD FARMS, AND INSTITUTIONAL TURF: Apply at 14- to 28-day intervals in 2 to 10 gallons of water per 1000 square feet. Use higher rate and/or shorter intervals when disease is severe. Make no more than six applications per year. Residential use is prohibited.
	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 + trifloxystrobin INTERFACE	3-5 fl.oz.	Apply when conditions favor disease and repeat applications on greens at 14- to 21-day intervals as needed. Application interval for fairways and other turfs is 14 to 28 days. Use lower application rates on fairways.
	mancozeb DITHANE T/O RAINSHIELD 4 FLOWABLE MANCOZEB FORE 80W MANCOZEB DG PROTECT T/O	4 oz. 6.4 fl.oz. 4 oz. 4 oz. 4 oz.	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.
	myclobutanil EAGLE 20EW	1-2 fl.oz.	Apply 2 to 3 gallons of spray solution per 1000 square feet of turf every 14 to 21 days when conditions permit.
	polyoxin D zinc salt AFFIRM ENDORSE WP	0.9 oz. 0.25 lb.	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.

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Disease	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 BANNER MAXX BANNER MAXX II PROPICONAZOLE PRO PROPENSITY 1.3ME SPECTATOR ULTRA STRIDER	1-2 fl.oz. 1-2 fl.oz. 1-2 fl.oz. 1-2 fl.oz. 1-4 fl.oz. 1-4 fl.oz.	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.
	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 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.
	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 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.
	trifloxystrobin COMPASS 50W COMPASS G	0.15-0.25 oz. 2-5 lb.	Apply every 14 days when conditions favor disease. High rate may be applied at 21-day intervals. Repeat 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.
	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.
Leaf Spot Diseases			
	triticonazole TRINITY TRITON 70WDG	0.5-2 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.

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Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
Nematodes			
	1,3 dichloropropene CURFEW	---	Curfew is a postplant fumigant for control of nematodes on bentgrass and bermudagrass greens and tees. Custom application only.
	<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.
	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.
	ground sesame NEO-TROL	5.3 lb.	Broadcast in enough water to move product to roots. Efficacy has been questioned.
	<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 HERITAGE G	2 fl.oz. 2-4 oz.	Apply at 14- to 28-day intervals when conditions favor disease. Use highest rate at the shortest interval when disease is present. DO NOT apply more than six times per year. See label for resistance management guidelines.
	azoxystrobin + 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 TEREMEC SP 65W	4 oz. 4 oz.	Apply at 5- to 10-day intervals when conditions favor disease.

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² Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
Pythium Blight (cont.)			
	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 PHYTHIUM 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.
	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	8-16 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.
	fluoxastrobin + chlorothalonil DISARM C	3-5.9 fl.oz.	USE AS 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.
	fluopicolide + propamocarb STELLAR	1.2 fl.oz.	Apply when conditions favor disease and reapply after 14 days as needed. Maximum of two application fo Stellar per year. For golf course and sod farms.
	fosetyl-Al ALIETTE T/O	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.
	PRODIGY SIGNATURE DG	4 oz.	SUMMER STRESS COMPLEX: Apply tank-mix Aliette T/O with 8 ounces of Chipco 26019, Chipco Flo, Daconil Ultrex, or Dithane/Fore WP per 1000 square feet at 14-day intervals. Fosethyl-Al is not compatible with flowable formulations of Daconil 2787 (4F or 6F) or Fore Fungicide.

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Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
Pythium Blight (cont.)			
	mefenoxam ² PYTHIUM CONTROL	0.8-1.5 lb.	ESTABLISHED TURF: Apply at 10- to 14-day intervals. Use higher rate at shorter intervals when disease is severe.
	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 21-day intervals in 3 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 5 to 10 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 ALLUDE	5-10 fl.oz.	GOLF COURSES, SOD FARMS, COMMERCIAL AND INSTITUTIONAL TURF: Apply in 1 to 5 gallons of water per 1000 square feet at 7- to 14-day intervals when conditions favor disease.
	MAGELLAN	4.1 fl.oz.	
	propamocarb BANOL 66.5L	1.33-4 fl.oz.	ESTABLISHED AND OVERSEEDED SPORTS AND COMMERCIAL TURF: Apply in 2 to 5 gallons of water per 1000 square feet as a preventive treatment when conditions favor disease. Repeat applications at 7- to 21-day intervals according to conditions. Under severe conditions, use the highest rate at the shortest interval.
	pyraclostrobin INSIGNIA	0.9 oz.	Begin applications when conditions favor disease development and before symptoms are seen. Repeat at 10- to 14-day intervals. Apply in 2 to 4 gallons of water per 1000 square feet. To suppress root rot, lightly irrigate after application. Under severe disease, apply mefenoxam or etridizole followed by Insignia. See label for resistance management recommendations.
	INSIGNIA 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	1.1 oz.	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.

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² Caution: To reduce risk of resistance, make no more than three applications of mefenoxam per year and alternate mefenoxam with another systemic fungicide.

Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
Rust			
	azoxystrobin HERITAGE TL HERITAGE G	1-2 fl.oz. 2-4 oz.	Apply at 14- to 21-day intervals when conditions favor disease.
	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.
	chlorothalonil + propiconazole CONCERT II	4.5-8.5 fl.oz.	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.
	fluoxastrobin + myclobutanol 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 + 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.
	mancozeb DITHANE T/O RAINSHIELD 4 FLOWABLE MANCOZEB FORE 80W MANCOZEB DG PROTECT T/O	4 oz. 6.4 fl.oz. 4 oz. 4 oz. 4 oz.	Apply at 7- to 14-day intervals in 3 to 5 gallons of water per 1000 square feet when disease threatens. Use higher rate and/or shorter intervals when disease is severe. For professional use only.
	metconazole TOURNEY	0.37 fl.oz.	Apply when conditions favor disease and repeat applications at 14-day intervals as needed.
	myclobutanol EAGLE 20EW	1-2 fl.oz.	Apply 2 to 3 gallons of spray solution per 1000 square feet of turf at 14- to 28-day intervals when conditions favor disease.
	propiconazole BANNER MAXX BANNER MAXX II PROPICONAZOLE PRO 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.	Apply in 2 to 5 gallons of water per 1000 square feet before symptoms appear. Repeat at 14- to 28-day intervals as needed.
	pyraclostrobin INSIGNIA	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.

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Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
Rust (cont.)			
	tebuconazole TORQUE	0.6 fl.oz.	GOLF COURSE TURF: Apply in 1 to 3 gallons of water per 1000 square feet when conditions favor disease and before symptoms appear. Alternate applications of Torque with another fungicide with a different mode of action. A second application may be made after 28 days. Torque is a Group 3 triazole fungicide.
	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 50W	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	2 fl.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	3 fl.oz.	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.
	HEADWAY G	2-4 lb.	Apply once or twice in late summer to early fall to previously damaged turf. Reapply after 14 to 28 days. Irrigate with 0.5 inch of water within 24 hours of application.
	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 + myclobutanil DISARM M	0.5-1 fl.oz.	Use preventively. Apply once in early fall. Make a second application 14 to 28 days later as needed. 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 40W EAGLE 20EW	1.2 oz. 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.

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Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
Spring Dead Spot (SDS) (cont.)			
	propiconazole BANNER MAXX	4 fl.oz.	Make one to three applications at 30-day intervals beginning in August.
	BANNER MAXX II	1-2 fl.oz.	
	PROPICONAZOLE PRO	4 fl.oz.	
	PROPENSITY 1.3ME	4 fl.oz.	
	SPECTATOR ULTRA	4 fl.oz.	
	STRIDER	4 fl.oz.	
	PROPHECY 0.7G	5.0 lb.	Follow one or two fall applications with one or two spring applications. See label for spreader settings.
	tebuconazole TORQUE	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 green up 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 TRITON FLO TRITON 70WDG	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.
Take-All Patch, Take-All Root Rot, Bermudagrass Decline			
	azoxystrobin HERITAGE 50W HERITAGE G	2 fl.oz. 2-4 oz.	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.
	azoxystrobin + propiconazole HEADWAY	3 fl.oz.	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 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 + propiconazole CONCERT II	8.5 fl.oz.	Use preventively. Make one or two applications in September and October 14 days apart followed by one or two applications in April and May 14 days apart. Apply in 1 gallon of water per 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.
	fluoxastrobin + myclobutanil DISARM M	0.5-1 fl.oz.	Use preventively. Apply twice at 14- to 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.
	metconazole TOURNEY	0.37 fl.oz.	Apply twice at 14-day intervals in spring and again in fall. Use higher rate at shorter intervals on turf previously damage by take-all. Immediately apply 0.25 to 0.5 inch of water.

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Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments ¹
Take-All Patch, Take-All Root Rot, Bermudagrass Decline (cont.)			
	propiconazole BANNER MAXX BANNER MAXX II PROPICONAZOLE PRO PROPENSITY 1.3ME SPECTATOR ULTRA STRIDER	2-4 fl.oz. 1-2 fl.oz. 2-4 fl.oz. 2-4 fl.oz. 4 fl.oz. 4 fl.oz.	Make one to two applications in September and October and, if needed, again in April and May. Schedule applications about 30 days apart.
	pyraclostrobin INSIGNIA	0.9 oz.	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.
	tebuconazole TORQUE	0.6 fl.oz.	GOLF COURSE TURF: Apply in 1 to 3 gallons of water per 1000 square feet when conditions favor disease and before symptoms appear. Irrigate immediately to redistribute fungicide into root zone. Initiate cultural practices at time of first application to help control disease.
	thiophanate-methyl 3336 4.5F 3336 50W 3336G 3336 PLUS	4-8 fl.oz. 4-8 oz. 6-12 lb. 4-8 oz.	Apply in July as symptoms appear and repeat every 7 to 14 days to suppress disease. Use higher rate at shorter intervals when disease is severe. See label for application intervals for 3336 Plus.
	triadimefon BAYLETON T/O BAYLETON FLO	1-2 oz. 1-2 fl.oz.	PREVENTIVE CONTROL: Apply 2 to 4 weeks before symptoms normally appear. Repeat at 21- to 28-day intervals. Thoroughly water immediately after each application.
	BAYLETON T/O BAYLETON FLO	2 oz. 2 fl.oz.	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.
	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.
Zoysia Patch, Cool Weather Brown Patch, or Yellow Patch of Zoysiagrass			
	azoxystrobin HERITAGE TL HERITAGE G	1-2 fl.oz. 2-4 oz.	Make one or two applications in late fall or when conditions favor disease. Apply at 28-day intervals.
	flutolanil PROSTAR 70W	2.2 oz.	Apply at 30-day intervals as needed.

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Disease	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.)			
	ipiodione CHIPCO 26019 CHIPCO FLO 26GT FLO	2 oz. 3-4 fl.oz. 3-4 fl.oz.	GOLF COURSES, SOD FARMS, AND INSTITUTIONAL TURF: Apply once in fall when conditions favor disease. Repeat in spring as needed at 14- to 21-day intervals. Use on residential lawns is prohibited.
	metconazole TOURNEY	0.37 fl.oz.	Apply when conditions favor disease and repeat applications at 14-day intervals as needed.
	myclobutanil EAGLE 20EW	2-4 fl.oz.	Make a single application in fall before turf goes dormant.
	propiconazole BANNER MAXX BANNER MAXX II PROPICONAZOLE PRO PROPENSITY 1.3ME STRIDER	3-4 fl.oz. 1-2 fl.oz. 3-4 fl.oz. 3-4 fl.oz. 3-4 fl.oz.	To control zoysia patch, make one application in early fall before symptoms appear.
	tebuconazole TORQUE	0.6 fl.oz.	GOLF COURSE TURF: Apply 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.

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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° 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.	

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	1.5 fl.oz. 2-4 oz.	Apply as water slurry with commercial seed treatment equipment.
APRON DRY SEED PROTECTION 12.5W	4-8 oz.	Apply just prior to planting. Thoroughly mix seed with product for maximum seed coverage.

Commercial Turf and Lawns: Disease and Nematode Control Recommendations prepared by Austin Hagan, *Extension Plant Pathologist*, Professor, Entomology and Plant Pathology, Auburn University.

2012 IPM-1291

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

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

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

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

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