



# Commercial Turf and Lawns

Disease and Nematode Control Recommendations for 2008

## 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 <sup>1</sup>
<b>Algae</b>			
	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. <b>DO NOT</b> use on residential lawns.
	mancozeb DITHANE T/O RAINSHIELD 4 FLOW ABLE 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. <i>For professional use only.</i>
<b>Anthraco-nose</b>			
	azoxystrobin HERITAGE 50W	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. <b>DO NOT</b> apply more than six times or 3.7 ounces per year.
	chlorothalonil DACONIL ULTREX DACONIL WEATHER STIK	1.8-5 oz. 2-5.5 fl.oz.	<b>BENTGRASS TEES, GREENS, FAIRWAYS:</b> Apply to tees and greens at 7- to 10-day intervals in 2 to 10 gallons of water per 1000 square feet. Use 0.8 to 1 gallon water per 1000 square feet on fairways. Apply at shorter intervals and higher rate when disease appears.
	chlorothalonil + propiconazole ECHO/PROPICONAZOLE EC CO-PACK	2.0 + 0.36 fl.oz.	<b>GOLF COURSES AND SOD FARMS:</b> Apply at 14-day intervals in a minimum of 0.3 gallons of water per 1,000 square feet when conditions favor disease development.
	chlorothalonil + thiophanate-methyl SPECTRO 90	3.7-5.7 oz.	<b>GOLF COURSES, SOD FARMS, COMMERCIAL AND INSTITUTIONAL GROUNDS:</b> 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.

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

Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments <sup>1</sup>
<b>Anthracnose (cont.)</b>			
	fluoaxastrobin 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.
	myclobutanil EAGLE 40W EAGLE 20EW	0.6 oz. 1.2 fl.oz.	Apply in summer at 14- to 21-day intervals when conditions favor disease.
	polyoxin D zinc salt ENDORSE WP	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.
	propiconazole BANNER MAXX PROPICONOZOLE PRO PROPENSITY 1.3ME	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.
	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	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.	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.
	thiophanate-methyl + chlorothalonil CONSYST	2-8 oz.	Apply at 7- to 14-day intervals. Use higher rate at shorter intervals when disease is present.
	triadimefon BAYLETON T/O GRANULAR TURF FUNGICIDE	1 oz. 1.5-3 lb.	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.
	trifloxystrobin COMPASS 50W	0.15-0.2 oz. 0.25 oz.	Apply every 14 days when conditions favor disease. Apply every 21 days as needed when conditions favor disease. May be tank mixed with Bayleton T/O to control dollar spot.
	trifloxystrobin + triadimefon ARMADA 50W	0.6-1.2 oz.	Apply at 14-day intervals in 1 to 2 gallons of water per 1,000 square feet when conditions favor disease development.

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

Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments <sup>1</sup>
<b>Brown Patch</b>			
	azoxystrobin HERITAGE 50W	0.2-0.4 oz.	Apply at 14- to 28-day intervals when conditions favor disease. Use the highest rate at the shortest interval when disease is present. <b>DO NOT</b> apply more than six times or 3.7 ounces per year. Does not control dollar spot.
	chlorothalonil DACONIL ULTREX DACONIL WEATHER STIK ECHO 90DF MANICUR DG MANICUR FLOWABLE	1.8-5 oz. 2-5.5 fl.oz. 1.75-6.5 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 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. <b>DO NOT</b> use on residential lawns.
	chlorothalonil DACONIL ULTREX DACONIL WEATHER STIK ECHO 90DF MANICUR DG MANICUR FLOWABLE	5-13.5 lb./A 5.5-15.1 pt./A 4.5-8 lb./A 4.5-8 lb./A 8-14 pt./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.
	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.
	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.
	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> <b>SHOULD NOT</b> be treated with fenarimol unless suppression is desired.
	fenarimol + chlorothalonil BROADWAY 4.4F TWO SOME 4.4F	3-6 fl.oz. 3-6 fl.oz.	Apply at 7- to 10-day intervals. Begin sprays when conditions favor disease.
	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	4-16 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.
	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.

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

Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments <sup>1</sup>
<b>Brown Patch (cont.)</b>			
	iprodione IPRODIONE PRO 2SE CHIPCO 26019 50W	3-4 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.	
	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.	
	myclobutanil EAGLE 40W EAGLE 20EW	0.6 oz. 1.2 fl.oz.	Apply at 14-day intervals in 1 to 3 gallons of water per 1000 square feet. See label for restrictions. If disease appears, tank-mix with recommended rate of Dithane T/O or Fore.
	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.
	polyoxin D zinc salt ENDORSE WP	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.
	propiconazole BANNER MAXX PROPICONAZOLE PRO PROPENSITY 1.3ME	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. <b>DO NOT</b> exceed 4 fluid ounces per 1000 square feet in a 30-day period for bermudagrass.
	PROPHESY 0.7G	2.5 lb.	
	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.

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

Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments <sup>1</sup>
<b>Brown Patch (cont.)</b>			
	thiophanate-methyl 3336 50W	4-8 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. <b>DO NOT</b> tank-mix with highly alkaline pesticides such as Bordeaux mixture or lime sulfur. See label for application intervals for 3336 Plus.
	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 50 50W	1-2 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.	Apply Systec at 7- to 14-day intervals. Use higher rate at shorter intervals when disease is present.
	T-STORM 50W	1-4 oz.	
	thiophanate-methyl + chloroneb FUNGICIDE IX	1.9-5.8 lb.	For use on bentgrass greens and tees. For preventive use, apply low rate to moist or dry foliage at 2- to 3-week intervals. Use higher rate every 2 weeks if disease appears. Control failure may be due to resistance. Refer to product label for accurate spreader settings.
	thiophanate-methyl + chlorothalonil CONSYST	3-8 oz.	Apply at 7- to 14-day intervals. Use higher rate at shorter intervals when disease is present.
	thiophanate-methyl + iprodione FLUID FUNGICIDE 26/36 FUNGICIDE	1.1-2.1 fl.oz. 2-4 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. <b>DO NOT</b> water or mow within 24 hours of application.
	triadimefon BAYLETON T/O	0.5-1 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. Does not control dollarspot. No PGR activity on bentgrass or bermudagrass.
	trifloxystrobin + triadimefon ARMADA 50W	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.
	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.

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

Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments <sup>1</sup>
<b>Dollarspot</b>			
	boscalid EMERALD	0.13-0.18 oz.	GOLF COURSE USE ONLY: Begin applications prior to or at early stages of the disease. Repeat applications at 14- to 28-days. Use shorter interval and/or higher rate when conditions favor disease. Apply in 2 to 4 gallons of water per 1000 square feet.
	chlorothalonil DACONIL ULTREX DACONIL WEATHER STIK ECHO 90DF MANICUR DG MANICUR FLOWABLE	1.8-5 oz. 2-5.5 fl.oz. 1.75-6.5 oz. 1.75-6.5 oz. 3-11 fl.oz.	TEES AND GREENS: Apply at 7- to 14-day intervals in 2 to 5 gallons of water per 1000 square feet before disease is seen. When disease appears, shorten intervals to 7 days and increase rate. <b>DO NOT</b> use on residential lawns.
	chlorothalonil DACONIL ULTREX DACONIL WEATHER STIK ECHO 90DF MANICUR DG MANICUR FLOWABLE	5-13.5 lb./A 5.5-15.1 pt./A 2.25-8 lb./A 2.25-8 lb./A 4-14 pt./A	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. <b>DO NOT</b> use on residential lawns.
	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.
	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.
	fenarimol RUBIGAN AS	0.75-1.5 oz.	Apply at 10- to 28-day intervals in 2 to 5 gallons of water per 1000 square feet. Use highest rate at the shortest interval when disease is present; then reduce rate for subsequent applications. Tank-mix with Daconil at the minimum label rate when disease is severe. Turf areas containing <i>Poa annua</i> <b>SHOULD NOT</b> be treated with fenarimol unless suppression is desired.
	fenarimol + chlorothalonil BROADWAY 4.4F TWO SOME 4.4F	3-4.5 fl.oz. 3-4.5 fl.oz. (1-1.5 gal./A)	Apply on a 2- to 3-week spray schedule. Begin sprays when conditions favor disease.
	iprodione IPRODIONE PRO 2SE CHIPCO 26019 50W 26GT FLO	3-4 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 <b>ONLY</b> .
	myclobutanil EAGLE 40W EAGLE 20EW	0.5-1.2 oz. 1.0-2.4 fl.oz.	Apply at 14- to 28-day intervals in 1 to 3 gallons of spray volume per 1000 square feet. <b>DO NOT</b> apply more than 7.2 ounces of Eagle per 1000 square feet per year.
	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.

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

Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments <sup>1</sup>
<b>Dollarspot (cont.)</b>			
	propiconazole BANNER MAXX PROPICONAZOLE PRO PROPENSITY 1.3ME	0.5-2 fl.oz. 0.5-2 fl.oz. 0.5-2 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. <b>DO NOT</b> 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.
	thiophanate-methyl 3336 50W 3336F 3336G 3336 PLUS CAVALIER 4.5F CAVALIER WSB FUNGO 50 50W FUNGO FLO SYSTEC 1998 F SYSTEC 1998 WDG TEE-OFF T-STORM	2-4 oz. 2-4 fl.oz. 1.5-6 lb. 2-4 oz. 1-2 fl.oz. 2 oz. 1-2 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 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.
	thiophanate-methyl + chloroneb FUNGICIDE IX	1.9-5.8 lb.	For use on bentgrass greens and tees. For preventive use, apply low rate to moist or dry foliage at 2- to 3-week intervals. If disease appears, use higher rate every 2 weeks. Refer to product label for accurate spreader settings. Control failure may be due to resistance.
	thiophanate-methyl + iprodione FLUID FUNGICIDE 26/36 FUNGICIDE	1.1-2.1 fl.oz. 2-4 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. <b>DO NOT</b> water or mow within 24 hours of application.
	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.
	FUNGICIDE VII GRANULAR TURF FUNGICIDE	1.3-5.3 lb. 0.75-3 lb.	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.
	trifloxystrobin + triadimefon ARMADA 50W	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.
	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.
<b>Downy Mildew of St. Augustinegrass</b>			
	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.

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

Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments <sup>1</sup>
<b>Fairy Ring</b>			
	azoxystrobin HERITAGE 50DG	0.4 oz.	Apply in 4 gallons of water per 1000 square feet as symptoms first appear. Reapply as needed 28 days later.
	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.
	polyoxin D zinc salt ENDORSE WP	0.25 lb.	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.	GOLF COURSE USE ONLY: 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.
<b>Gray Leaf Spot</b>			
	azoxystrobin HERITAGE 50DG	0.2-0.4 oz.	Apply every 14 to 28 days when conditions favor disease. Use highest rate at shortest interval when disease is present. <b>DO NOT</b> apply more than six times or a total of 3.7 ounces of Heritage 50DG per year.
	chlorothalonil DACONIL ULTREX DACONIL WEATHER STIK ECHO 90DF MANICUR DG MANICUR FLOWABLE	1.8-5 oz. 2-5.5 fl.oz. 1.75-6.5 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. <b>DO NOT</b> use on residential lawns.
	chlorothalonil + thiophanate-methyl SPECTRO 90	3.7-5.7 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.
	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.
	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.
	propiconazole BANNER MAXX PROPICONAZOLE PRO PROPENSITY 1.3ME	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.	GOLF COURSE USE ONLY: 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.
	triadimefon BAYLETON T/O	0.5-1 oz.	Apply every 14 days. Tank mix Bayleton T/O with a contact fungicide to control moderate to severe outbreaks.
	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.

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

Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments <sup>1</sup>
<b>Gray Leaf Spot (cont.)</b>			
	trifloxystrobin + triadimefon ARMADA 50W	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.
<b>Helminthosporium Leafspot and Crown Rot (Melting-Out)</b>			
	azoxystrobin HERITAGE 50W	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. <b>DO NOT</b> apply more than six times or a total of 3.7 ounces per year.
	chlorothalonil DACONIL ULTREX DACONIL WEATHER STIK ECHO 90DF MANICUR DG MANICUR FLOWABLE	1.8-5 oz. 2-5.5 fl.oz. 1.75-6.5 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. <b>DO NOT</b> 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 + 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.
	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.
	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.
	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 FUNGICIDE X	3-4 fl.oz. 1.5-2 oz. 3-4 fl.oz. 2.4-4.8 lb.	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. 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 <b>ONLY</b> .
	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.

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

Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments <sup>1</sup>
<b>Helminthosporium Leafspot and Crown Rot (Melting-Out) (cont.)</b>			
	myclobutanil EAGLE 40W EAGLE 20EW	6 oz. 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 ENDORSE WP	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.
	propiconazole BANNER MAXX PROPICONAZOLE PRO PROPENSITY 1.3ME PROPESY 0.7G	1-2 fl.oz. 1-2 fl.oz. 1-2 fl.oz. 2.5 lb.	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.  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.	GOLF COURSE USE ONLY: 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.
	thiophanate-methyl + iprodione FLUID FUNGICIDE 26/36 FUNGICIDE	1.1-2.1 fl.oz. 2-4 fl.oz.	GOLF COURSES, SOD FARMS, AND INSTITUTIONAL TURF: Apply at 1- to 2-week intervals in 4 to 7 gallons of water per 1,000 square feet. Use higher rate and/or shorter intervals when disease appears. <b>DO NOT</b> water or mow within 24 hours of application.
	trifloxystrobin COMPASS 50W	0.15-0.25 oz.	Apply every 14 days when conditions favor disease. High rate may be applied at 21-day intervals. Repeat as needed.
	trifloxystrobin + triadimefon ARMADA 50W	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.
<b>Nematodes</b>			
	1,3 dichloropropene CURFEW	---	Curfew is a postplant fumigant for control of nematodes on bentgrass and bermudagrass greens and tees. Custom application only.
	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.
	ground sesame NEO-TROL	5.3 lb.	Broadcast in enough water to move product to roots. Efficacy has been questioned.

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

Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments <sup>1</sup>
<b>Nematodes (cont.)</b>			
	phenamiphos NEMACUR 10G	2.3 lb. (100 lb./A)	Apply evenly with drop spreader or sprayer with enough water for good coverage. Irrigate immediately after application with 0.5 to 1 inch of water. Up to two applications per year (spring and fall) are allowed. <b>DO NOT</b> treat newly seeded areas. <b>DO NOT</b> apply Nemacur on residential or public recreational areas other than golf courses. <b>DO NOT</b> apply where runoff is likely or turf may become wet. Nemacur is a <b>RESTRICTED USE</b> pesticide. See product labels for additional information and use restrictions. Production of Nemacur has stopped. Remaining stocks may be used.
	NEMACUR 3E	9.7 fl.oz.	
<b>Pythium Blight</b>			
	azoxystrobin HERITAGE 50DG	0.4 oz.	Apply at 14- to 28-day intervals when conditions favor disease. Use highest rate at the shortest interval when disease is present. <b>DO NOT</b> apply more than six times or a total of 3.7 ounces per year.
	chloroneb FUNGICIDE GRANULE TEREMEC SP 65W	4 oz. 4 oz.	Apply at 5- to 10-day intervals when conditions favor disease.
	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.
	etridiazole KOBAN 30W	2-4.5 oz. 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. 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.
	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. <b>DO NOT</b> 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.

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

Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments <sup>1</sup>
<b>Pythium Blight (cont.)</b>			
	mefenoxam*		
	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 2	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.
	SUBDUE 2X WSP	0.11-0.56 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 OVERSEDED 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. See label for resistance management recommendations.
<b>Rust</b>			
	azoxystrobin		
	HERITAGE 50W	0.2-0.4 oz.	Apply at 14- to 21-day intervals when conditions favor disease.
	mancozeb		
	DITHANE T/O RAINSHIELD	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.
	4 FLOWABLE MANCOZEB	6.4 fl.oz.	
	FORE 80W	4 oz.	
	MANCOZEB DG	4 oz.	
	PROTECT T/O	4 oz.	
	myclobutanil		
	EAGLE 40W	0.6 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.
	EAGLE 20EW	1-2 fl.oz.	
	propiconazole		
	BANNER MAXX	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.
	PROPICONAZOLE PRO	1-2 fl.oz.	
	PROPENSITY 1.3ME	1-2 fl.oz.	

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

\* 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 <sup>1</sup>
<b>Rust (cont.)</b>			
	pyraclostrobin INSIGNIA	0.5-0.9 oz.	GOLF COURSE USE ONLY: 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.
	triadimefon BAYLETON T/O	0.5-1 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.
	trifloxystrobin + triadimefon ARMADA 50W	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.
<b>Spring Dead Spot (SDS)</b>			
	azoxystrobin HERITAGE 50DG	0.4 oz.	Apply once or twice in late fall or when conditions favor disease. Apply at 28-day intervals. <b>DO NOT</b> apply more than six times or a total of 3.7 ounces per year.
	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.
	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.
	propiconazole BANNER MAXX PROPICONAZOLE PRO PROPENSITY 1.3ME	4 fl.oz. 4 fl.oz. 4 fl.oz.	Make one to three applications at 30-day intervals beginning in August.
	PROPENSITY 0.7G	5.0 lb.	Follow one or two fall applications with one or two spring applications. See label for spreader settings.
	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.
<b>Take-All Patch, Take-All Root Rot, Bermudagrass Decline</b>			
	azoxystrobin HERITAGE 50W	0.4 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> . <b>DO NOT</b> apply more than six times or a total of 3.7 ounces per year.
	propiconazole BANNER MAXX PROPICONAZOLE PRO PROPENSITY 1.3ME	2-4 fl.oz. 2-4 fl.oz. 2-4 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.
	PROPENSITY 0.7 G	2.5-5.0 lb.	Follow one or two fall applications with one or two spring applications. See label for spreader settings.

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

Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments <sup>1</sup>
<b>Take-All Patch, Take-All Root Rot, Bermudagrass Decline (cont.)</b>			
	pyraclostrobin INSIGNIA	0.5 - 0.9 oz.	GOLF COURSE USE ONLY: 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.
	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	1-2 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	2 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>Gaeuman nomycetes graminis</i> var. <i>graminis</i> on St. Augustinegrass, zoysiagrass, bermudagrass, and centipedegrass.
<b>Zoysia Patch, Cool Weather Brown Patch, or Yellow Patch of Zoysiagrass</b>			
	azoxystrobin HERITAGE 50W	0.4 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.
	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.
	myclobutanil EAGLE 40W Eagle 20EW	1.2 oz. 2-4 fl.oz.	Make a single application in fall before turf goes dormant.
	propiconazole BANNER MAXX PROPICONAZOLE PRO PROPENSITY 1.3ME	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.
	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	1-2 oz.	To control zoysia patch, apply in early fall before symptoms appear. If needed, apply in early spring where disease is known to be severe.

<sup>1</sup>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 <sup>1</sup>
dazomet BASAMID 99G	222-350 lb. (5-8.1 lb./ 1000 sq.ft.)	All preplant nematicides are <b>RESTRICTED USE</b> 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 <b>ONLY</b> 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.

**2008IPM-1291**

**For more information**, call your county Extension office. It is listed in your telephone directory under your county's name.

---

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 cancelled, 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.

---

Issued in furtherance of Cooperative Extension work in agriculture and home economics, Acts of May 8 and June 30, 1914, and other related acts, in cooperation with the U.S. Department of Agriculture. The Alabama Cooperative Extension System (Alabama A&M University and Auburn University) offers educational programs, materials, and equal opportunity employment to all people without regard to race, color, national origin, religion, sex, age, veteran status, or disability.



*Your Experts for Life*