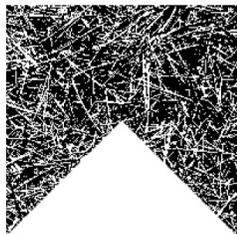


IPM



Homeowner Lawns

Disease and Nematode Control Recommendations for 2008

DISEASE AND NEMATODE CONTROL

Home Lawns: Disease and Nematode Control			
Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments
Algae			
	mancozeb		Apply as needed to affected areas. <i>For professional use only.</i>
	DITHANE T/O	6 oz.	
	DITHANE WF	9.6 fl.oz.	
	FORE 80W	6 oz.	
	MANCOZEB DG	6 oz.	
	MANZATE 200 DF	6 oz.	
	PROTECT T/O	6 oz.	
Brown Patch			
	azoxystrobin		Apply every 14 to 28 days when conditions favor disease. Use highest rate at shortest interval when disease is present. DO NOT apply more than six times or a total of 3.7 ounces of Heritage 50DG per year. Does not control dollar spot.
	HERITAGE 50DG	0.2-0.4 oz.	
	fenarimol		Apply at 7- to 14-day intervals in 2 to 5 gallons of water per 1000 square feet. Shorten interval for use when disease is present. Tank mix with Daconil 2787 at minimum label rate under severe disease conditions.
	RUBIGAN AS	1.5 fl.oz.	
	mancozeb		Apply at 7- to 14-day intervals in 3 to 5 gallons of water per 1000 square feet when disease threatens. Use high rate at shortest spray interval when disease is severe. Tank-mix with Eagle under severe disease conditions. <i>For professional use only.</i>
	DITHANE T/O	4 oz.	
	DITHANE WF	6.4 fl.oz.	
	FORE 80W	4 oz.	
	MANCOZEB DG	4 oz.	
	PROTECT T/O	4 oz.	
	myclobutanil		Apply at 14- to 21-day intervals in 2 to 3 gallons of water per 1000 square feet.
	EAGLE WSP	0.6 oz.	
	IMMUNOX LAWN DISEASE CONTROL	4-8 lb.	Apply when disease is likely to occur or when symptoms are first seen. Apply at 14- to 28-day intervals. Use shorter treatment interval when disease is severe. Make no more than three consecutive applications of this fungicide. Lightly irrigate after treatment. See label for spreader settings.
	F-STOP	4-8 lb.	
	IMMUNOX LAWN DISEASE CONTROL, READY-TO-SPRAY CONCENTRATE	0.3 qt.	Apply when disease is likely to occur or when symptoms are first seen. One quart bottle will treat 3000 square feet of lawn. Reapply at 14-day intervals as needed. Do not make more than three consecutive application of this fungicide. See label for additional application instructions.
	PCNB		Covers 1000 square feet. Lightly water after application. Repeat every 3 to 4 weeks. Apply in 10 to 15 gallons of water to cover 1000 square feet every 3 to 4 weeks.
	DEFEND 10G	7.5 lb.	
	DEFEND 75WP	1 lb.	
	TURFCIDE 400	24 fl.oz.	Apply Turfcide 10G with drop or cyclone-type spreader as needed. Refer to label for spreader settings.
	TURFCIDE 10G	7.5 lb.	
	TERRACLOR GRANULAR FUNGICIDE	8 lb.	Apply at first sign of disease. Repeat applications at 3- to 4-week intervals as needed. See label for spreader settings.

Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments
Brown Patch (cont.)			
	propiconazole BANNER MAXX SYSTEMIC FUNGICIDE	2-4 fl.oz. 20 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.
	thiophanate-methyl 3336 50W 3336F FUNGO 50 50W FUNGO FLO	2 oz. (4-8 T.) 1-2 fl.oz. 1-2 oz. 1-2 fl.oz.	Apply at 5- to 14-day intervals in 5 gallons of water per 1000 square feet. Shorten interval and increase rate when disease appears. Use on St. Augustinegrass, bermudagrass, and cool-season turfgrasses ONLY . Continuous use may result in control failure due to resistance.
	HALT 50W	2 oz.	Apply at first sign of disease and repeat applications every 7 to 14 days. Apply in 3 to 5 gallons of water per 1000 square feet of lawn.
	LAWN FUNGUS CONTROL	1.35-2.7 lb.	Apply when disease is likely to appear and repeat as needed at 14- to 21-day intervals. Use at shorter interval at higher rate when disease is present.
	triadimefon BAYLETON T/O	1-2 oz. (6-12 T.)	Apply at 15- to 30-day intervals in 2 to 4 gallons of water per 1000 square feet. Use higher rate and shorter interval when disease appears.
	LAWN FUNGICIDE GRANULES	3-6 lb.	PREVENTIVE CONTROL: Apply when disease is likely to appear and repeat applications at 14- to 30-day intervals. Apply 0.25 inch of water immediately after application.
	TURF FUNGICIDE GRANULES	3-6 lb.	CURATIVE CONTROL: Apply higher rate at shorter interval to control existing disease outbreak. Apply 0.25 inch of water immediately after application. See label for spreader setting.
	FUNGUS CONTROL FOR LAWNS	1.5 lb. 3 lb.	PREVENTIVE CONTROL: Apply when disease is likely to appear and repeat applications at 15- to 30-day intervals. Apply 0.25 inch of water immediately after application. CURATIVE CONTROL: Apply higher rate at shorter interval to control existing disease outbreak. Apply 0.25 inch of water immediately after application. See label for spreader setting.
	SYSTEMIC FUNGICIDE FOR TURF AND ORNAMENTALS	28 fl. oz. 56 fl. oz.	PREVENTIVE CONTROL: Apply when conditions favor disease but before symptoms are seen. Repeat as needed at 30-day intervals. Apply in 3 to 5 gallons of water per 1000 square feet. CURATIVE CONTROL: Apply after symptoms are seen. Follow preventive program if additional applications are needed. Apply in 3 to 5 gallons of water per 1000 square feet.
	trifloxystrobin COMPASS 50W	0.15-0.25 oz.	Apply at 21-day intervals and repeat as needed.
Dollarspot			
	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 shortest interval when disease is present; then reduce rate for subsequent applications.
	myclobutanil EAGLE WSP	0.6 oz.	Apply at 14- to 21-day intervals in 2 to 3 gallons of spray volume per 1000 square feet.
	IMMUNOX LAWN DISEASE CONTROL F-STOP	3-8 lb. 3-8 lb.	Apply when disease is likely to occur or when symptoms are first seen. Repeat at 14- to 28-day intervals as needed. Use higher rate at shorter treatment interval when disease is severe. Make no more than three consecutive applications of this fungicide and then switch to a fungicide (i.e. PCNB) with a different mode of action. Lightly irrigate after treatment. See label for spreader settings.
	IMMUNOX LAWN DISEASE CONTROL, READY-TO-SPRAY CONCENTRATE	0.3 qt.	Apply when disease is likely to occur or when symptoms are first seen. One quart bottle will treat 3000 square feet of lawn. Reapply at 14-day intervals as needed. Do not make more than three consecutive application of this fungicide. See label for additional application instructions.

Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments
Dollarspot (cont.)			
	PCNB DEFEND 75W	7-10 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.
	TURFCIDE 2E TURFCIDE 400 TURFCIDE 10G	1-1.5 qt. 10.5-15 fl.oz. 50-75 lb.	Apply Turfcide 10G with drop or cyclone-type spreader as needed. Refer to label for spreader settings.
	TERRACLOR GRANULAR FUNGICIDE	8 lb.	Apply at first sign of disease. Repeat applications at 3- to 4-week intervals as needed. See label for spreader settings.
	propiconazole BANNER MAXX SYSTEMIC FUNGICIDE	0.5-2 fl.oz. 12 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.
	thiophanate-methyl 3336 50W 3336F FUNGO 50 50W FUNGO FLO	1-2 oz. (4-8 T.) 1-2 fl.oz. 1-2 oz. 1-2 fl.oz.	Apply at 5- to 14-day intervals in 5 gallons of water per 1000 square feet. Shorten interval and increase rate when disease appears. Use on St. Augustinegrass, bermudagrass, and cool-season turfgrasses ONLY . Continuous use may result in control failures due to resistance.
	HALT 50W	2 oz.	Apply at first sign of disease and repeat applications every 7 to 14 days. Apply in 3 to 5 gallons of water per 1000 square feet of lawn.
	LAWN FUNGUS CONTROL	1.35-2.7 lb.	Apply when disease is likely to appear and repeat as needed at 14- to 21-day intervals. Use at shorter interval at higher rate when disease is present.
	triadimefon BAYLETON T/O	1-2 oz. (6-12 T.)	Apply 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.
	LAWN FUNGICIDE GRANULES	1.5-3 lb.	PREVENTIVE CONTROL: Apply when disease is likely to appear and repeat applications at 14- to 30-day intervals. Apply 0.25 inch of water immediately after application.
	TURF FUNGICIDE GRANULES	1.5-3 lb.	
	LAWN FUNGICIDE GRANULES	6 lb.	CURATIVE CONTROL: Apply higher rate at shorter interval to control existing disease outbreak. Apply 0.25 inch of water immediately after application. See label for spreader setting.
	TURF FUNGICIDE GRANULES	6 lb.	
	SYSTEMIC FUNGICIDE FOR TURF AND ORNAMENTALS	28 fl. oz. 56 fl. oz.	PREVENTIVE CONTROL: Apply when conditions favor disease but before symptoms are seen. Repeat as needed at 30 day intervals. Apply in 3 to 5 gallons of water per 1000 square feet. CURATIVE CONTROL: Apply after symptoms are seen. Follow preventative program if additional applications are needed. Apply in 3 to 5 gallons of water per 1000 square feet.
Fairy Ring			
	flutolanil PROSTAR 50W	6 oz.	Apply in 10 to 50 gallons of water per 1000 square feet. If needed, make a second application at least 30 days later. Core aerify before applying. Irrigate before and after applying. See label for additional instructions.
Gray Leaf Spot			
	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. DO NOT apply more than six times or a total of 3.7 ounces of Heritage 50DG per year. Does not control dollarspot.
	propiconazole BANNER MAXX	1-2 fl.oz.	Apply when conditions favor disease and repeat at 14-day intervals.

Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments
Gray Leaf Spot (cont.)			
	trifloxystrobin COMPASS 50W	0.15-0.2 oz.	Apply when conditions favor disease every 14 days. Repeat as needed.
Helminthosporium Leafspot and Crown Rot (Melting-Out)			
	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. DO NOT apply more than six times or a total of 3.7 ounces of Heritage 50DG per year.
	mancozeb DITHANE T/O DITHANE WF 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 interval when disease is severe. For professional use only.
	myclobutanil EAGLE WSP	6 oz.	Apply 2 to 3 gallons of spray solution per 1000 square feet of turf every 14 to 21 days when conditions permit.
	IMMUNOX LAWN DISEASE CONTROL F-STOP	4 lb. 4 lb.	Apply when disease is likely to occur or when symptoms are first seen. Apply at 14-day intervals. Make no more than three consecutive applications of this fungicide. Lightly irrigate after treatment. See label for spreader settings.
	IMMUNOX LAWN DISEASE CONTROL, READY-TO-SPRAY CONCENTRATE	0.3 qt.	Apply when disease is likely to occur or when symptoms are first seen. One quart bottle will treat 3000 square feet of lawn. Reapply at 14-day intervals as needed. Do not make more than three consecutive application of this fungicide. See label for additional application instructions.
	propiconazole BANNER MAXX	2 fl.oz.	Use under light to moderate pressure. Reapply every 14 days as needed.
	trifloxystrobin COMPASS 50W	0.1-0.15 oz.	Apply when conditions favor disease. Repeat as needed every 14 days.
Nematodes			
	chitin and other organic nitrogen sources CLANDOSAN 618 25G	45-140 lb. (1-3 T./A.)	Irrigate immediately after treatment with all products with 0.5 inch of water to avoid foliar burn. Clandosan contains 10.4 percent urea.
Pythium Blight			
	azoxystrobin HERITAGE 50DG	0.4 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.
	chloroneb TEREMEC SP 65W FUNGICIDE V	4 oz.	Apply at 5- to 10-day intervals when conditions favor disease.
	etridiazole KOBAN 1.3G	3 lb. 8 lb.	ESTABLISHED LAWN: Apply with spreader at 5- to 10-day intervals. NEWLY SEEDED LAWN: Apply over newly seeded areas and lightly topdress. Repeat 5 to 7 days later with recommended fungicide.
	KOBAN 30W	2-4.5 oz. 7-9 oz.	ESTABLISHED LAWN: Apply at 5- to 10-day intervals in 5 gallons of water per 1000 square feet when conditions favor disease. NEWLY SEEDED LAWN: 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	4-8 oz.	ESTABLISHED LAWN: 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.

Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments
Pythium Blight (cont.)			
	fosetyl-AI ALIETTE T/O	4-8 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 interval when disease is present. DO NOT mow or water until foliage dries.
	mefenoxam* SUBDUE GR	5-25 oz.	ESTABLISHED LAWN: Apply uniformly as a preventive treatment. Repeat at 10- to 14-day intervals when conditions favor disease. Irrigate immediately with 0.25 to 0.5 inch of water. Will not control cool-season Pythium blight. NEWLY SEEDED LAWN: Apply uniformly after seeding and irrigate with 0.25 to 0.5 inch of water. If needed, repeat at 7- to 14-day intervals. Will not control cool-season Pythium blight.
	SUBDUE MAXX SUBDUE 2X WSP	0.5-1 fl.oz. 0.11-0.56 fl.oz.	ESTABLISHED LAWN: 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 M- 45 at 8 ounces per 1000 square feet to improve performance. See label for mixing directions. NEWLY SEEDED LAWN: 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-mix with Fore/Dithane M-45 at 8 ounces per 1000 square feet to improve performance.
	propamocarb BANOL 66.5L	1.33-4 fl.oz.	ESTABLISHED AND OVERSEEDED LAWN: 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.
Rust			
	mancozeb DITHANE T/O DITHANE WF 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 of water per 1000 square feet at 7- to 14-day intervals when disease threatens. Use higher rate and/or shorter interval when disease is severe. For professional use only.
	myclobutanil IMMUNOX LAWN DISEASE CONTROL F-STOP	4 lb. 4 lb.	Apply when disease is likely to occur or when symptoms are first seen. Apply at 14- to 28-day intervals. Use shorter treatment interval when disease is severe. Make no more than three consecutive applications of this fungicide. Lightly irrigate after treatment. See label for spreader settings.
	IMMUNOX LAWN DISEASE CONTROL, READY-TO-SPRAY CONCENTRATE	0.3 qt.	Apply when disease is likely to occur or when symptoms are first seen. One quart bottle will treat 3000 square feet of lawn. Reapply at 14-day intervals as needed. Do not make more than three consecutive application of this fungicide. See label for additional application instructions.
	propiconazole BANNER MAXX SYSTEMIC FUNGICIDE	1-2 fl.oz. 12 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.

*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
Rust (cont.)			
	triadimefon BAYLETON T/O	1-2 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 interval; then return to original spray program. Mow and water after residue dries.
	LAWN FUNGICIDE GRANULES	3-6 lb.	PREVENTIVE CONTROL: Apply when disease is likely to appear and repeat applications at 14- to 30-day intervals. Apply 0.25 inch of water immediately after application.
	TURF FUNGICIDE GRANULES	3-6 lb.	CURATIVE CONTROL: Apply higher rate at shorter interval to control existing disease outbreak. Apply 0.25 inch of water immediately after application. See label for spreader setting.
	FUNGUS CONTROL FOR LAWNS	1.5 lb.	PREVENTIVE CONTROL: Apply when disease is likely to appear and repeat applications at 15- to 30-day intervals. Apply 0.25 inch of water immediately after application.
		3 lb.	CURATIVE CONTROL: Apply higher rate at shorter interval to control existing disease outbreak. Apply 0.25 inch of water immediately after application. See label for spreader setting.
	SYSTEMIC FUNGICIDE FOR TURF AND ORNAMENTALS	28 fl. oz.	PREVENTIVE CONTROL: Apply when conditions favor disease but before symptoms are seen. Repeat as needed at 30 day intervals. Apply in 3 to 5 gallons of water per 1000 square feet.
		56 fl. oz.	CURATIVE CONTROL: Apply after symptoms are seen. Follow preventive program if additional applications are needed. Apply in 3 to 5 gallons of water per 1000 square feet.
	trifloxystrobin COMPASS 50W	0.1-0.15 oz.	Apply when symptoms first appear and repeat every 14 days as needed.
Spring Dead Spot (SDS)			
	azoxystrobin HERITAGE 50DG	0.4 oz.	Make one to two applications late in the fall or when conditions favor disease. Apply every 28 days. DO NOT apply more than six times or a total of 3.7 ounces of Heritage 50DG per year.
	fenarimol RUBIGAN AS	4-6 fl.oz.	Make one application of 4 fluid ounces per 1000 square feet in September or in 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 WSP	1.2 oz.	Make two to three monthly applications beginning in August.
	IMMUNOX LAWN DISEASE CONTROL, READY-TO-SPRAY CONCENTRATE	0.3 qt.	Apply first in early September and repeat application 14 and 28 days later. One quart bottle will treat 3000 square feet of lawn. Target areas of lawn that were previously damaged by SDS for treatment. See label for additional application instructions.
	propiconazole BANNER MAXX	4 fl.oz.	Make three monthly applications beginning in August.

Disease	Fungicide and Formulation	Amount to Use per 1000 sq. ft. or as Specified	Comments
Take-All Patch, Take-All Root Rot, Bermudagrass Decline			
	azoxystrobin HERITAGE 50DG	0.4 oz.	Make two applications at 28-day intervals in the spring and fall. Also controls Zoysia Patch caused by <i>Gaeumannomyces</i> <i>incrustans</i> . DO NOT apply more than six times or a total of 3.7 ounces of Heritage 50DG per year.
	myclobutanil IMMUNOX LAWN DISEASE CONTROL F-STOP	8 lb. 8 lb.	Apply once or twice in September and/or October, and apply twice in spring as lawn greens up. Apply at 28-day intervals. Make no more than three consecutive applications of this fungicide. Irrigate with 0.5 to 1 inch of water per 1,000 square feet after treatment. See label for spreader settings.
	propiconazole BANNER MAXX	2-4 fl.oz.	Make one to two applications in early fall and, if needed, again in early spring. Apply at 30-day intervals.
	triadimefon BAYLETON T/O	2 oz.	PREVENTIVE CONTROL: Begin applications 2 to 4 weeks before symptoms normally appear. Repeat at 21- to 28-day intervals. Thoroughly water immediately after each application.
	BAYLETON T/O	4 oz.	CURATIVE CONTROL: Make one to two applications on a 14- to 21-day schedule; then apply the 2-ounce rate on 21- to 28-day intervals. Thoroughly water after each application. Use to control diseases of St. Augustinegrass, zoysiagrass, bermudagrass, and centipedegrass that are incited by <i>Gaeumannomyces</i> <i>graminis</i> var. <i>graminis</i> .

Homeowner Lawns: Disease and Nematode Control prepared by Austin K. Hagan, *Extension Plant Pathologist*, Alumni Professor, Entomology and Plant Pathology, Auburn University.

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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.

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