Table 5. Basic fungicides labeled for management of turfgrass diseases. *(Compiled by Barb Corwin and Kyle Briscoe)*

Table 5 is maintained as a part of MU Extension publication IPM 1029, *Identification and Management of Turfgrass Diseases*. For updates, check http://extension.missouri.edu.

For an excellent companion reference giving relative rankings of fungicide efficacy, refer to *Chemical Control of Turfgrass Diseases 2007*, by Paul Vincelli and A.J. Powell, University of Kentucky http://www.ca.uky.edu/agc/pubs/ppa/ppa1/ppa1.pdf.

FRAC code[1]	Group name	Chemical group	Common name	Topical mode of action[2]	Relative risk of resistance	Selected registrant(s)	Selected trade name(s)	Ascomycetes							Basidiomycetes									Imperfects					Oomycetes				Other			
							Fungus classification ➧	dead spot	dollar spot	necrotic ring spot	powdery mildew	spring dead spot	summer patch	take-all patch	Rhizoctonia: brown patch	Rhizoctonia: large patch	Rhizoctonia: yellow patch	fairy ring	gray snow mold	pink patch	red thread	rust	smut	anthracnose	copper spot	gray leaf spot	Helminthosporium leaf spots	Microdochium patch	Pythium blight	Pythium root rot	Pythium seedling blight	yellow tuft	algae	seedling blight	slime mold
1	Methyl benzimidazole carbamate (MBC)																																				
		thiophanates	thiophanate methyl	XMS	H	The Andersons, Cleary	Fungo Flo, Cleary 3336 Plus	●	●	●		●	●	●	●	●	●				●		●	●	●	●	●	●									
2	Dicarboximide																																				
			iprodione	LS	M	Bayer	Chipco 26 GT		●	●					●	●			●		●						●	●									
			vinclozolin	LS	M	BASF	Curalan		●						●				●	●	●						●	●									
3	Demethylation inhibitors (DMI)																																				
		pyrimidines	fenarimol	XMS	M	Gowan	Rubigan		●	●	●	●	●	●	●				●		●		●	●	●			●									
		triazoles	myclobutanil	XMS	M	Dow AgroSciences	Eagle		●	●	●	●	●	●	●	●					●	●	●	●	●		●										
			propiconazole	XMS	M	Syngenta	Banner Maxx		●	●	●	●	●	●	●	●	●		●	●	●	●	●	●		●	●	●									
			triadimefon	XMS	M	Bayer	Bayleton		●		●		●	●	●	●		●	●		●	●	●	●	●	●		●									
4	Phenylamide																																				
		acylalalines	mefenoxam	XMS	H	Syngenta	Subdue Maxx																							●		●	●				
7	Carboxamide																																				
			boscalid	XMS	M	BASF	Emerald	●	●																												
			flutolanil	XMS	M	Bayer	Prostar								●	●	●	●	●	●	●																
11	Quinone outside inhibitor (QoI)																																				
		methoxy-acrylates	azoxystrobin	XMS	H	Syngenta	Heritage			●	●	●	●	●	●	●	●	●	●	●	●	●		●		●	●	●		●	●						
			fluoxastrobin	XMS	H	Arysta	Disarm					●	●	●	●				●	●	●			●		●	●	●		●	●						
		methoxy-carbamates	pyraclostrobin	LS	H	BASF	Insignia	●	●		●		●	●	●	●		●	●	●	●	●		●		●	●	●		●							
		oximino acetates	trifloxystrobin	LS	H	Bayer	Compass						●		●					●	●	●		●		●	●	●									
12	Phenylpyrrole																																				
			fludioxonil	C	M	Syngenta	Medallion	●					●		●		●		●					●		●	●	●									
14	Aromatic hydrocarbon																																				
			chloroneb	C	L-NS	The Andersons, PBI Gordon	Proturf Fungicide II, Teremec SP								●	●			●										●								
			PCNB (quintozene)	C	L-NS	Crompton	Turfcide		●						●	●			●								●	●									
		1,2,4-thiadiazoles	etridiazole	C	NS	The Andersons	Koban																							●	●	●					
19	Polyoxin																																				
		peptidyl pyrimidine nucleoside	polyoxin D	LS	M	Cleary	Endorse								●	●	●	●	●		●			●		●	●										
28	Carbamate																																				
			propamocarb	LS	M	Bayer	Banol																							●		●					
33	Phosphonate																																				
			phophorous acid	PMS	L	Cleary	Alude																							●		●					
		ethyl phosphonates	fosetyl-Al	PMS	L	Bayer	Chipco Signature																							●	●		●				
M	M3																																				
		dithio-carbamate	mancozeb	C	NS	Dow AgroSciences	Fore		●						●						●	●			●	●	●	●		●					●		●
			thiram	C	NS	Cleary	Spotrete		●						●				●									●									
M	M4																																				
		phthalimides	captan	C	NS	Drexel	Captan								●												●									●	
M	M5																																				
		chloronitriles	chlorothalonil	C	NS	Syngenta	Daconil		●						●		●		●		●	●			●	●	●	●	●						●		

Comments: [1] Numbers or letters assigned by the Fungicide Resistance Action Committee (FRAC). Fungicides with the same FRAC code have the same or similar mode of action. For a complete FRAC code list: http://frac.info

[2]Classification of topical mode of action and relative risk of resistance from Paul Vincelli, University of Kentucky.
C = contact, LS = locally systemic, XMS = xylem-mobile systemic, PMS = phloem-mobile systemic
H = high, M = medium, L = low, NS = not significant

Disclaimer: All product information in this table is presented with the understanding that no endorsement of named products is intended, nor is criticism implied of similar products that are not mentioned.

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