

WARM SEASON

Singular Fungicide Active Ingredient, Plant Mobility, and Fungicide Resistance Action

Committee Codes Distributed by WSC

Fungicide	Product Names*	Mobility ¹	FRAC
Acibenzolar-S-Methyl	Daconil Action, Heritage Action, Secure Action	PMS	P1
Azoxystrobin	Heritage WDG, Heritage Action, Heritage TL, Strobe 2L, Azoxy 2SC Select, Strobe 50 WG	XMS	11
Boscalid	Emerald, Boscalid	XMS	7
Chlorothalonil	Daconil Ultrex, Daconil Weatherstik, Daconil ZN, Daconil Action, Echo Ultimate, Echo Dyad ETQ, Chlorothalonil 720, Chlorothalonil DF	C	M5
Cyazofamid	Segway, Gateway	L	21
Etridiazole	Terrazole 35WP	C	14
Fluazinam	Secure, Secure Action, Flex Guard, Fluazinam 40SC, Downforce ETQ,	C	29
Fludioxonil	Medallion SC, Pendant SC	C	12
Fluxastrobin	Fame SC, Castlon, Floxcor	XMS	11
Flutolanil	Pedigree	XMS	7
Flutriafol	Rayora	XMS	3
Fluxapyroxad	Xzempler	XMS	7
Fosetyl-Al	Chipco Signature, Signature XTRA Stressgard, Fosetyl-Al 80 WDG	PMS	33
Iprodione	Chipco 26019, Chipco 26GT, Ipro 2, Eclipse ETQ	LS	2
Isofetamid	Kabuto	XMS	7
Mancozeb	Fore Rainshield, Protect DF, Manzate Max	C	M3
Mandestrobin	Pinpoint	XMS	11
Mefenoxam	Subdue Maxx, Mefenoxam 2AQ	XMS	4
Mefentrifluconazole	Maxtima	XMS	3
Metconazole	Tourney EZ	XMS	3
Myclobutanil	Eagle, Myclobutanil 20EW T&O	XMS	3
PCNB	Turfcide 400	C	14
Penthiopyrad	Velista	XMS	7
Phosphite	Appear II, Fiata Stressgard	PMS	33
Picarbutrazox	Serata	XMS	U17
Polyoxin-D	Affirm	LS	19
Propamocarb	Banol, Karma, Propam Select, Proplant	LS	28
Propiconazole	Banner Maxx II, Propiconazole 14.3, PPZ41.8 Select	XMS	3
Prothioconazole	Densicor, Prothioconazole 4L Select	XMS	3
Pydiflumetofen	Posterity	XMS	7
Pyraclostrobin	Insignia Intrinsic	LS	11
Tebuconazole	Mirage Stressgard, Tebuconazole 3.6F, Clearscape ETQ, Tourque	XMS	3
Thiophanate-methyl	3336 F, TM 4.5 Flowable	XMS	1
Thiram	Spotrete F	C	M3
Triadimefon	Bayleton, Triadimefon 43SC	XMS	3
Trifloxystrobin	Compass	LS	11

¹C = Contact; LS = Local systemic; XMS = Xylem-mobile systemic; PMS = Phloem-mobile systemic; SC = Surface contact (no residual left on leaf)

WARM SEASON

Fungicide Efficacy Against Common Warm-Season Amenity Turfgrass Diseases

Fungicide	Disease											
	Algae	Cream Leaf Blight	Dollar Spot	Fairy Ring	Gray Leaf Spot	Large Patch	Leaf Spot/ Melting Out	Mini Ring	Pythium Blight	Pythium Root Rot	Spring Dead Spot	Take-all Root Rot
Azoxystrobin		L		3	2	3	3.5	2	2.5	2	1.5	3
Boscalid			3.5									
Chlorothalonil	3.5		3		3		3	L				
Cyazofamid									4	4		
Etridazole									1	2		
Fluazinam	2		4			L	3.5					
Fludioxonil					L		3.5	L				
Fluxastrobin			2.5	3	2	3	3.5		2.5	3	2	
Flutolanil		L		3.5		4		2				
Flutriafol			3		3	L					3	
Fluxapyroxad	1.5		4	3		3	3					
Fosetyl-Al									3	3		
Iprodione		L	3.5			2	3.5					
Isofetamid			3.5	3							4	
Mancozeb	3		1		2.5		3.5		2			
Mandestrobin			3.5	L								
Mefenoxam									3	1.5		
Mefentrifluconazole			4	4			3.5				4	3
Metconazole				3.5	2	4						
Myclobutanil			3		2	2.5	1				1.5	
PCNB			2			4	2					
Penthiopyrad		L	3	3.5		3	3.5	3			3.5	
Phosphite									2.5	3		
Picarbutrazox									3	4		
Polyoxin-D				2	1	1.5	3	2				
Propamocarb									3	1.5		
Propiconazole			3.5		2	2.5	1.5				2.5	3
Prothioconazole			3.5	3.5	3	3.5	L	4			3	3
Pydiflumetofen			4	3							3.5	
Pyraclostrobin			2.5	3	2	3	3.5	3	2	2		3
Tebuconazole		L	3.5	3.5	2	4					2.5	3
Thiophanate-methyl			2		4		1				1	
Thiram			1						L			
Triadimefon			3.5		2	3.5						2
Trifloxystrobin					2		2.5					

Rating system for efficacy is as follows: 4 = consistently excellent results; 3 = good to excellent results; 2 = fair to good control; 1 = inconsistent control; L = limited data available; NA = label requires tank mix for control; **darkened cell** = not recommended or not labeled for that disease; **lime green cell** = labeled for that disease; **dark green cell** = best control for that disease

-Based on University of Kentucky Extension publication by P. Vincelli, et. al., NC State TurfFiles and other published university data

WARM SEASON

Combo-Fungicide Active Ingredient, Plant Mobility, and Fungicide Resistance Action

Committee Codes Distributed by WSC

Fungicide Combo	Product Names	Mobility ¹	FRAC
Azoxystrobin + Chlorothalonil	Renown	XMS+C	11+M5
Azoxystrobin + Cyazofamid	Union	XMS+L	11+21
Azoxystrobin + Difeniconazole	Briskway, Azoxy D Select	XMS+XMS	11+3
Azoxystrobin + Propiconazole	Headway, Compendium, Strobe Pro, AzProp Select	XMS+XMS	11+3
Azoxystrobin + Tebuconazole	AzTeb Select,	XMS+XMS	11+3
Benzovindiflupyr + Difeniconazole	Ascenity	XMS+XMS	7+3
Boscalid + Chlorothalonil	Encartis	XMS	7+M5
Chlorothalonil + Fludioxonil + Propiconazole	Instrata	C+C+XMS	M5+12+3
Chlorothalonil + Iprodione	E-Pro ETQ	C+L	M5+2
Chlorothalonil + Iprodione + Thiophanate Methyl + Tebuconazole	Enclave	C+L+XMS+XMS	M5+2+1+3
Chlorothalonil + Propiconazole	Concert II	C+XMS	M5+3
Chlorothalonil + Tebuconazole	E-Scape ETQ	C+XMS	M5+3
Copper hydroxide + Mancozeb	Junction	C	M3
Fluazinam + Tebuconazole	Traction, Fairview Select	C+XMS	29+3
Fludioxonil + Benzovindiflupyr	Tuque exoGem	C+XMS	12+7
Fluindapyr + Fluriafol	Kalida	XMS+XMS	7+3
Fluopyram + Prothioconazole + Propamocarb	Resilia	XMS+XMS+L	7+3+28
Fluopyram + Trifloxystrobin	Exteris Stressgard	XMS+L	7+11
Fluoxastrobin + Chlorothalonil	Fame C	XMS+C	11+M5
Fluoxastrobin + Flutriafol	Tarvecta	XMS+XMS	11+3
Iprodione + Thiophanate Methyl	26/36	LS+XMS	2+1
Iprodione + Trifloxystrobin	Interface Stressgard	LS+LS	2+11
Isofetamid + Tebuconazole	Tekken	XMS+XMS	7+11
Pydiflumetofen + Azoxystrobin + Propiconazole	Posterity Forte, Posterity Forte	XMS+XMS+XMS	7+11+3
Pyraclostrobin + Boscalid	Honor Intrinsic	XMS+XMS	11+7
Pyraclostrobin + Fluxapyroxad	Lexicon Intrinsic	XMS+XMS	11+7
Pyraclostrobin + Mefentrifluconazole	Navicon Intrinsic	XMS+XMS	11+3
Pyraclostrobin + Triticonazole	Aramax Intrinsic, Pillar G Intrinsic, Pillar SC Intrinsic	XMS+XMS	11+3
Trifloxystrobin + Triadimefon	Armada, Tartan	XMS+XMS	11+3

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	Algae	Cream Leaf Blight	Dollar Spot	Fairy Ring	Gray Leaf Spot	Large Patch	Leaf Spot/ Melting Out	Mini Ring	Pythium Blight	Pythium Root Rot	Spring Dead Spot	Take-all Root Rot
Azoxystrobin + Chlorothalonil	4		3		3.5	3	4	L				
Azoxystrobin + Cyazofamid				3	2	3	4		4	4		
Azoxystrobin + Difeniconazole		L	3	3.5	3	3	4	3				4
Azoxystrobin + Propiconazole		L	3.5	3	3.5	4	3.5	3	2	2	3	4
Azoxystrobin + Tebuconazole			3.5	4	3	4	4	L	2	2	L	
Benzo.+Difen.			3.5	4	3	4	4	3			L	
Boscalid + Chlorothalonil	4		4		3		4					
Chloro.+Fludio.+Prop.			4		3		4					
Chlorothalonil + Iprodione			L		L	L	L					
Chloro.+Ipro+T. Meth. +Teb.		L	3.5		3.5	4					3	
Chlorothalonil + Propiconazole	4		4		3.5		4					
Chlorothalonil + Tebuconazole			L		L						L	
Copper hydroxide + Mancozeb	4		L		2		L		L			
Fluazinam + Tebuconazole	2		4		L	L	4					
Fludioxonil + Benzovindiflupyr			3	L	L	3.5	L	L			L	
Fluindapyr + Fluriafol			3.5	3	L	3	3	2		L	3	3
Fluop.+Prothio+Propam.				4						2		4
Fluopyram + Trifloxystrobin			4		L						3	
Fluoxastrobin + Chlorothalonil	4		3	3	3	3	L		L	2	L	
Fluoxastrobin + Flutriafol			L	L	L	L	L	L			L	L
Iprodione + Thiophanate Methyl			3.5			2	3		2			
Iprodione + Trifloxystrobin			3.5			2	4					
Isofetamid + Tebuconazole			3.5	4	L	4					4	3
Pydiflum.+Azoxy.+Prop.			4	4	3	4	4	3	2	2	4	4
Pyraclostrobin + Boscalid			3.5	3	3	3	2	L	2	2		
Pyraclostrobin + Fluxapyroxad		L	3.5	3	3	3.5	4	3	2	2	3.5	3
Pyrac.+ Mefentrifluconazole			4	4	3	3	4	3	2	2	4	4
Pyraclostrobin + Triticonazole			3.5	L	3	3.5	3.5	L	L	L		
Trifloxystrobin + Triadimefon			3.5	4	3		3					3

Rating system for efficacy is as follows: 4 = consistently excellent results; 3 = good to excellent results; 2 = fair to good control; 1 = inconsistent control; L = limited data available; NA = label requires tank mix for control; darkened cell = not recommended or not labeled for that disease; lime green cell = labeled for that disease; dark green cell = best control for that disease

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