## FUNGICIDE CLASSIFICATION

		SITE OF ACTION	CHEMICAL FAMILY	ACTIVE INGREDIENT	PRODUCT EXAMPLES (TRADE NAME)	PRIANOR	Fluxapyroxad 14.33%	7
MITOSIS						PRIAXOR D	Fluxapyroxad 14.33%	7
DISRUPTERS	1	MBC (Methyl Benzimidazole Carbamates) B1: ß-tubuline assembly in mitosis	Thiophanates	Thiophanate-methyl	Topsin, multiple generics and component in premix		Tetraconazole 20.5%	3
<b>CELL MEMBRANE</b>					· · · · · · · · · · · · · · · · · · ·	STRATEGO	Trifloxystrobin 11.4%	11
DISRUPTERS				Cyproconazole	Alto and component in premix		Prothioconazole 11.4%	3
RESPIRATION INHIBITORS	3	DMI(DeMethylation Inhibitors)/Triazoles G1: C14- demethylase in sterol biosynthesis (erg11/cyp51) SDHI (Succinate dehydrogenase inhibitors)/Carboximides	Triazoles	Flutriafol Propiconazole	Topguard and component in premix Tilt, multiple generics	STRATEGO YLD	Trifloxystrobin 32.3% Prothioconazole 10.8%	11 3
				Tetraconazole Difenoconazole	Domark, multiple generics and component in premix	OVERRULE	Tebuconazole 7.5% Thiophanate-methyl 37.5%	3 1
					Component of Quadris Top		Tebuconazole 7.5%	3
				Tebuconazole	component in premix	TOPSIN XRT	Thiophanate-methyl 37.5%	1
			Triazolinthiones	Prothioconazole	Proline and component in premix	PPOTOCOL	Propiconazole 7.1%	3
						PROTOCOL	Thiophanate-methyl 23.7%	1
			Pyridinecarboxamides Pyrazole-4- carboxamides	Boscalid Fluxapyroxad Solatenol Penthiopyrad	Endura Component of Priaxor Component of Trivapro Fontelis		Tebuconazole 8.47%	3
	7					MUSCLE ADV	Chlorothalonil 30.51%	M5
		complex II: succinate-dehydrogenase					Azoxystrobin 9.35%	11
		Qol (Quinone oustide inhibitors)/ Strobilurins C3: complex III: cytochrome bc1 (ubiquinol oxidase) at Qo site (cyt b gene)	Methoxy-acrylates	Azoxystrobin	Quadris, Equation, Trevo, multiple generics and component in premix		Tetraconazole 7.48%	3
	11						Azoxystrobin 13.5%	11
				Discussion			Propiconazole 11.7%	3
				Picoxystrobin	Aftersback Evite	<b>ΔΖΟΧΥ ΤΕΒ</b>	Azoxystrobin 11.0%	11
			Dinydro-dioxazines	Fluoxastrobin			Tebuconazole 18.35%	3
			Methoxy-carbamates	Pyraclostrobin	Headline	AZOXYPROP XTRA	Azoxystrobin 13.5%	11
			Oximino-acetates	Trifloxystrobin	Component of Stratego YLD		Propiconazole 11.7%	3
MULTI-SITE CONTACT ACTIVITY	<b>B41</b>		Incurrente	Common (different colto)	Badge and multiple generics	CATAMARAN	Potassium Phosphite 38.9%	33
		 Multi-site contact activity	Chloronitriles (Phthalonitriles)	Copper (different salts) Chlorothalonil	Badge and multiple generics Bravo Weather Stik, multiple generics and component in premix		Chlorothalonil 16.7%	M5
UNKNOWN	M5					VIATHON	Potassium Phosphite 49%	33
							Tebuconazole 3.3%	3
		Unknown	Phosphonates	Phophorous acid and salts	Component in premix	COVER XL	Azoxystrobin 13.5%	11
	33						Propiconazole 11.7%	3
						CUSTODIA	Azoxystrobin 11.0%	11
	⊢or more II	nformation and links to additional resourc	ces visit <b>Soybean Fungicide</b> :	Resistance Hub at Plant	managementNetWork.org		Tebuconazole 18.35%	3
						PREEMPTOR	Fluoxastrobin 14.84%	11
							FIUTRIATOL 19.3%	5

## by **PREMIX**

This section lists premix fungicides alphabetically by their trade names so you can identify the premix's component fungicides and their respective site of action groups. Refer to the Site of Action section on the left for more information.

ACTIVE

REF	PEATED	USE OF FUNGICIDES WITH	PREMIX	ACTIVE INGREDIENT (%)	FRAC GROU			
IN 7	THE DE	VELOPMENT OF FUNGICIDE	QUADRIS TOP	Azoxystrobin 18.2% Difenoconazole 11.4%	11 3			
						AVARIS	Azoxystrobin 7.0% Propiconazole 11.7%	11 3
						QUILT	Azoxystrobin 7.0% Propiconazole 11.7%	11 3
	by M	ODE OF ACTION				QUILT XCEL	Azoxystrobin 13.5% Propiconazole 11.7%	11 3
	(effect This sect	ion plant pathogen)	APROACH PRIMA	Picoxystrobin 17.94% Cyproconazole 7.17%	11 3			
	diversity develop	in fungicide use and <b>2)</b> to rotate ment of fungicide resistance.	ΕΥΙΤΟ Τ	Fluoxastrobin 18.0% Tebuconazole 25.0%	11 3			
			FORTIX	Fluoxastrobin 14.84% Flutriafol 19.3%	11 3			
	FRAC	SITE OF ACTION	CHEMICAL	ACTIVE	PRODUCT EXAMPLES	PRIAXOR	Pyraclostrobin 28.58% Fluxapyroxad 14.33%	11 7
MITOSIS DISRUPTERS		MBC (Methyl Benzimidazole Carbamates)	<b>FAMILY</b> Thiophanates	Thiophanate-methyl	(TRADE NAME) Topsin, multiple generics and	PRIAXOR D	Pyraclostrobin 28.58% Fluxapyroxad 14.33% Tetraconazole 20.5%	11 7 3
CELL MEMBRANE DISRUPTERS		DMI(DeMethylation Inhibitors)/Triazoles G1: C14- demethylase in sterol biosynthesis (erg11/cyp51)		Cyproconazole	Alto and component in premix	STRATEGO	Trifloxystrobin 11.4% Prothioconazole 11.4%	11 3
	3		Triazoles	Flutriafol Propiconazole	Topguard and component in premix Tilt, multiple generics	STRATEGO YLD	Trifloxystrobin 32.3% Prothioconazole 10.8%	11 3
				Tetraconazole Difenoconazole	Domark, multiple generics and component in premix	OVERRULE	Tebuconazole 7.5% Thiophanate-methyl 37.5%	3 1
				Tebuconazole	Folicur, multiple generics and component in premix	TOPSIN XRT	Tebuconazole 7.5% Thiophanate-methyl 37.5%	3 1
RESPIRATION			Triazolinthiones	Prothioconazole	Proline and component in premix	PROTOCOL	Propiconazole 7.1% Thiophanate-methyl 23.7%	3 1
INHIBITORS	7	SDHI (Succinate dehydrogenase inhibitors)/Carboximides complex II: succinate-dehydrogenase	Pyridinecarboxamides Pyrazole-4- carboxamides	Boscalid Fluxapyroxad Solatenol	Endura Component of Priaxor Component of Trivapro	MUSCLE ADV	Tebuconazole 8.47% Chlorothalonil 30.51%	3 M5
				Penthiopyrad	Fontelis Quadris Equation Trevo multiple	AFFIANCE	Azoxystrobin 9.35% Tetraconazole 7.48%	11 3
	11	Qol (Quinone oustide inhibitors)/ Strobilurins C3: complex III: cytochrome bc1 (ubiquinol oxidase) at Qo site (cyt b gene)	Methoxy-acrylates	Azoxystrobin	generics and component in premix	AFRAME PLUS	Azoxystrobin 13.5% Propiconazole 11.7%	11 3
			Dihydro-dioxazines	Picoxystrobin Fluoxastrobin	Aproach and component in premix Aftershock, Evito	ΑΖΟΧΥ ΤΕΒ	Azoxystrobin 11.0% Tebuconazole 18.35%	11 3
			Methoxy-carbamates Oximino-acetates	Pyraclostrobin Trifloxystrobin	Headline Component of Stratego YLD	AZOXYPROP XTRA	Azoxystrobin 13.5% Propiconazole 11.7%	11 3
MULTI-SITE CONTACT ACTIVITY	M1		Inorganic	Copper (different salts)	Badge and multiple generics	CATAMARAN	Potassium Phosphite 38.9% Chlorothalonil 16.7%	33 M5
<b>UNKNOWN</b> F	M5	Multi-site contact activity	Chloronitriles (Phthalonitriles)	Chlorothalonil	Bravo Weather Stik, multiple generics and component in premix	VIATHON	Potassium Phosphite 49% Tebuconazole 3.3%	<b>33</b> 3
	33	Unknown	Phosphonates	Phophorous acid and salts	Component in premix	COVER XL	Azoxystrobin 13.5% Propiconazole 11.7%	11 3
	For more il	nformation and links to additional resourc	ces visit <b>Soybean Fungicide</b>	<b>Resistance Hub</b> at <b>Plantl</b>	ManagementNetwork.org	CUSTODIA	Azoxystrobin 11.0% Tebuconazole 18.35%	11 3
						PREEMPTOR	Fluoxastrobin 14.84% Flutriafol 19.3%	11 3

Technical editing for this publication was led by Drs. Heather Kelly, University of Tennessee, Carl Bradley, University of Kentucky, and Clayton Hollier, Louisiana State University.

Check for a label and Material Safety Data Sheet at www.cdms.net to confirm status and always consult label prior to use.

This chart was developed with funding from the soy checkoff.

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**QUADRIS TOP SB** 



Programs in agriculture and natural resources, 4-H youth development, family and consumer sciences, and resource development. University of Tennessee Institute of Agriculture, U.S. Department of Agriculture and county governments cooperating. UT Extension provides equal opportunities in programs and employment.

Azoxystrobin 18.2%

Difenoconazole 7.3%

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