



WISCONSIN* HERBICIDE MODE OF ACTION CHART (SEE OTHER SIDE FOR COMBINATION PRODUCTS)

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Mode of action	Group number & Herbicide site of action	Chemical family	Active ingredient	Product trade name® example
Lipid Synthesis Inhibitors	1 ACCase Inhibitors	Aryloxyphenoxy-propionate 'FOPs'	fenoxaprop-P	Fusion, Wolverine, others
			fluazifop-P	Fusilade DX
			quizalofop-P	Assure II, Targa
		Cyclohexanedione 'DIMs'	clethodim	Select Max, others
Phenylpyrazoline 'DENS'	sethoxydim	Poast, Poast Plus		
Amino Acid Synthesis Inhibitors	2 ALS Inhibitors	Imidazolinone	imazamox	Raptor, Beyond
			imazapic	Plateau
			imazaquin	Scepter
			imazethapyr	Pursuit
			Pyrimidinyl (thio) benzoate	bispyribac-sodium
		Sulfonylaminocarbonyl-triazolinone	flucarbazone-sodium	Everest, Sierra
			propoxycarbazono-sodium	Component of Rimfire Max
		Sulfonylurea	thiencarbazono-methyl	Component of Corvus, others
			chlorimuron-ethyl	Classic
			chlorsulfuron	Glean XP
			foramsulfuron	Component of Derigo
			halosulfuron-methyl	Permit
			iodosulfuron-methyl	Component of Derigo
			mesosulfuron	Component of Rimfire Max
			metsulfuron-methyl	Ally XP
			nicosulfuron	Accent Q
			primisulfuron-methyl	Beacon
			prosulfuron	Peak
			rimsulfuron	Resolve
			thifensulfuron-methyl	Harmony
		tribenuron-methyl	Express, Express XP	
		triflurosulfuron-methyl	UpBeet	
		Triazolopyrimidine	cloransulam-methyl	FirstRate
florasulam	Component of Orion, others			
flumetsulam	Python			
penoxsulam	Component of Pindar GT, others			
9 EPSP Synthase Inhibitor	Glycine	pyroxsulam	PowerFlex HL	
		glyphosate	Roundup, others	
Growth Regulators	4 Synthetic Auxin	Arylpicolinate	halauxifen-methyl	Elevore, Component of Quelex
			Benzoic acid	dicamba
		Pyridine carboxylic acid	aminopyralid	Milestone
			clopyralid	Stinger
			fluroxypyr	Starane Ultra
		Quinoline carboxylic acid	triclopyr	Trycera
			quinclorac	Facet L
		Phenoxy-carboxylic-acid	2,4-D	2,4-D, Enlist One
			MCPA	MCPA, others
		19 Auxin Transport	Phthalamate Semicarbazone	diflufenzopyr

Mode of action	Group number & Herbicide site of action	Chemical family	Active ingredient	Product trade name® example	
Photosynthesis Inhibitors	5 Photosystem II Inhibitors (different binding than 6 & 7)	Phenyl-carbamate	desmedipham	Alphanex	
			phenmedipham	Component of Betamix	
		atrazine	AAtrex, others		
		Triazine	prometryn	Caparol	
	6 Photosystem II Inhibitors (different binding than 5 & 7)	Triazinone	simazine	Princep	
			hexazinone	Velpar	
			metribuzin	Tricor, others	
7 Photosystem II Inhibitors (different binding than 5 & 6)	Urea	terbacil	Sinbar		
		bentazon	Basagran, others		
10 Nitrogen Metabolism Inhibitor	10 Glutamine Synthesis Inhibitor	Phosphinic acid	glufosinate	Liberty	
			13 Diterpene Synthesis Inhibitor	Isoxazolidinone	clomazone
Pigment Inhibitors	27 HPPD Inhibitors	Pyrazole	isoxaflutole	Balance Flexx	
			pyrasulfotole	Component of Huskie	
			Pyrazolone	topramezone	Armezon, Impact
			Triketone	mesotrione	Callisto
Cell Membrane Disrupters	14 PPO Inhibitors	Diphenylether	tembotrione	Laudis	
			Triazolinone	sulfentrazone	Spartan
				carfentrazone-ethyl	Aim
		fluthiacet-methyl		Cadet	
		22 Photosystem I Electron Diverter	Bipyridylium	acifluorfen	Ultra Blazer
				fomesafen	Flexstar, Reflex, others
	lactofen			Cobra, Phoenix	
	oxyfluorfen			Component of Pindar GT, others	
	Seedling Root Growth Inhibitors	3 Microtubule Inhibitors	Benzamide	flumiclorac	Resource
				Dinitroaniline	flumioxazin
saflufenacil				Sharpen	
Seedling Shoot Growth Inhibitors	8 Lipid Synthesis Inhibitors (not ACCase)	Thiocarbamate	diquat	Reglone	
			paraquat	Gramoxone SL	
	15 Long-chain Fatty Acid Inhibitors	Chloroacetamide	pronamide	Kerb	
			ethalfuralin	Sonalan	
			pendimethalin	Prowl H2O, others	
16 Specific Site Unknown	Benzofurane	trifluralin	Treflan, others		
		thiencarbazone-methyl	Component of Corvus, others		
15 Long-chain Fatty Acid Inhibitors	Chloroacetamide	Oxyacetamide	cycloate	Ro-Neet	
			EPTC	Eptam 7E	
			acetochlor	Breakfree NXT, Degree, Harness, Surpass, Warrant, others	
			S-metolachlor	Dual II Magnum, EverpreX, others	
16 Specific Site Unknown	Benzofurane	Isoxazoline	dimethenamid-P	Outlook	
			pyroxasulfone	Component of Axiom	
16 Specific Site Unknown	Benzofurane	Benzofurane	ethofumesate	Zidua	
			ethofumesate	Nortron	



WISCONSIN* HERBICIDE COMBINATION PRODUCTS (SEE OTHER SIDE FOR MODE OF ACTION KEY)

Premix trade name*	Active ingredient	Product trade name* example	Site of action
ACURON	bicyclopyrone	--	27
	mesotrione	Callisto	27
	atrazine	AAtrex	5
	S-metolachlor	Dual II Magnum	15
ACURON FLEXI	bicyclopyrone	--	27
	mesotrione	Callisto	27
	S-metolachlor	Dual II Magnum	15
AFFINITY BROADSPEC	thifensulfuron-methyl	Harmony	2
	tribenuron-methyl	Express	2
AFFORIA	thifensulfuron-methyl	Harmony	2
	tribenuron-methyl	Express	2
	flumioxazin	Valor	14
ANTHEM ATZ	pyroxasulfone	Zidua	15
	fluthiacet-methyl	Cadet	14
	atrazine	AAtrex	5
ANTHEM FLEX	pyroxasulfone	Zidua	15
	carfentrazone-ethyl	Aim	14
ANTHEM MAXX	pyroxasulfone	Zidua	15
	fluthiacet-methyl	Cadet	14
ARMEZON PRO	topramezone	Armezon	27
	dimethenamid-P	Outlook	15
AUTHORITY ASSIST	sulfentrazone	Spartan	14
	imazethapyr	Pursuit	2
AUTHORITY ELITE	sulfentrazone	Spartan	14
	S-metolachlor	Dual II Magnum	15
AUTHORITY FIRST	sulfentrazone	Spartan	14
	cloransulam-methyl	FirstRate	2
AUTHORITY MTZ	sulfentrazone	Spartan	14
	metribuzin	Tricor	5
AUTHORITY XL	sulfentrazone	Spartan	14
	chlorimuron-ethyl	Classic	2
AUTHORITY SUPREME	sulfentrazone	Spartan	14
	pyroxasulfone	Zidua	15
AUTUMN SUPER	iodosulfuron	Autumn	2
	thiencarbazon	--	2
AXIAL BOLD	pinoxaden	Axial XL	1
	fenoxaprop-P	Fusion	1
AXIAL STAR	pinoxaden	Axial XL	1
	fluroxypyr	Starane	4
AXIOM	flufenacet	--	15
	metribuzin	Tricor	5
BASIS BLEND	rimsulfuron	Resolve	2
	thifensulfuron-methyl	Harmony	2
BETAMIX	desmedipham	--	5
	phenmedipham	N/A	5
BICEP II MAGNUM / BICEP LITE II MAGNUM	S-metolachlor	Dual II Magnum	15
	atrazine	AAtrex	5
BOUNDARY	S-metolachlor	Dual II Magnum	15
	metribuzin	Tricor	5
BREAKFREE NXT ATZ / BREAKFREE NXT LITE	acetochlor	Breakfree NXT	15
	atrazine	AAtrex	5
BROADAXE XC	S-metolachlor	Dual II Magnum	15
	sulfentrazone	Spartan	14
CALLISTO GT	mesotrione	Callisto	27
	glyphosate	glyphosate	9
CALLISTO XTRA	mesotrione	Callisto	27
	atrazine	AAtrex	5
CANOPY/ CANOPY BLEND	chlorimuron-ethyl	Classic	2
	metribuzin	Tricor	5

Premix trade name*	Active ingredient	Product trade name* example	Site of action
CANOPY EX	chlorimuron-ethyl	Classic	2
	tribenuron-methyl	Express	2
CAPRENO	thiencarbazon	--	2
	tembotrione	Laudis	27
CINCH ATZ/ CINCH LITE ATZ	S-metolachlor	Dual II Magnum	15
	atrazine	AAtrex	5
COLT + SALVO	2,4-D	2,4-D	4
	fluroxypyr	Starane	4
COLT + SWORD	MCPA	MCPA	4
	fluroxypyr	Starane	4
CORVUS	thiencarbazon-methyl	--	2
	isoxaflutole	Balance Flexx	27
CURTAIL	clopyralid	Stinger	4
	2,4-D	2,4-D	4
CURTAIL M	clopyralid	Stinger	4
	MCPA	MCPA	4
DEGREE XTRA	acetochlor	Degree	15
	atrazine	AAtrex	5
DERINGO	foramsulfuron	--	2
	iodosulfuron-methyl	--	2
	thiencarbazon-methyl	--	2
DIFLEX DUO	dicamba	DiFlexx	4
	tembotrione	Laudis	27
	2,4-D	2,4-D	4
ENLIST DUO	glyphosate	glyphosate	9
	chlorimuron-ethyl	Classic	2
	thifensulfuron-methyl	Harmony	2
ENLITE	flumioxazin	Valor	14
	chlorimuron-ethyl	Classic	2
ENVIVE	thifensulfuron-methyl	Harmony	2
	flumioxazin	Valor	14
	S-metolachlor	Dual II Magnum	15
EXPERT	atrazine	AAtrex	5
	glyphosate	glyphosate	9
	imazethapyr	Pursuit	2
EXTREME	glyphosate	glyphosate	9
	flumioxazin	Valor	14
FIERCE/FIERCE EZ	pyroxasulfone	Zidua	15
	flumioxazin	Valor	14
FIERCE MTZ	pyroxasulfone	Zidua	15
	metribuzin	Tricor	5
	flumioxazin	Valor	14
FIERCE XLT	pyroxasulfone	Zidua	15
	chlorimuron-ethyl	Classic	2
	fomesafen	Flexstar	14
FLEXSTAR GT	glyphosate	glyphosate	9
	aminopyralid	Milestone	4
FOREFRONT HL	2,4-D	2,4-D	4
	acetochlor	TopNotch	15
FULTIME NXT	atrazine	AAtrex	5
	fluazifop-P	Fusilade DX	1
FUSION	fenoxaprop-P	Puma	1
	pyroxasulfone	PowerFlex HL	2
	florasulam	--	2
GOLDSKY	fluroxypyr	Starane	4
	S-metolachlor	Dual II Magnum	15
	mesotrione	Callisto	27
HALEX GT	thifensulfuron-methyl	Harmony	2

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HARMONY EXTRA/ HARMONY EXTRA XP	thifensulfuron-methyl	Harmony	2
	tribenuron-methyl	Express	2
HARNESS MAX	acetochlor	Harness	15
	mesotrione	Callisto	27
HARNESS XTRA	acetochlor	Harness	15
	atrazine	AAtrex	5
HORNET	clopyralid	Stinger	4
	flumetsulam	Python	2
HUSKIE	pyrasulfotole	--	27
	bromoxynil	Brox	6
HUSKIE COMPLETE	pyrasulfotole	--	27
	bromoxynil	Brox	6
	thiencarbazon-methyl	--	2
INSTIGATE	rimsulfuron	Resolve, Matrix	2
	mesotrione	Callisto	27
KEYSTONE/ KEYSTONE NXT	acetochlor	Surpass NXT	15
	atrazine	AAtrex	5
LEXAR EZ	mesotrione	Callisto	27
	S-metolachlor	Dual II Magnum	15
	atrazine	AAtrex	5
LUMAX EZ	mesotrione	Callisto	27
	S-metolachlor	Dual II Magnum	15
	atrazine	AAtrex	5
MARVEL	fluthiacet-methyl	Cadet	14
	fomesafen	Flexstar	14
NORTHSTAR	primisulfuron-methyl	Beacon	2
	dicamba	Clarity	4
OPTILL	saflufenacil	Sharpen	14
	imazethapyr	Pursuit	2
OPTILL PRO	saflufenacil	Sharpen	14
	dimethenamid-P	Outlook	15
	imazethapyr	Pursuit	2
ORION	florasulam	--	2
	MCPA	MCPA	4
	thifensulfuron-methyl	Harmony	2
PANOFLEX	tribenuron-methyl	Express	2
	penoxsulfam	--	2
PINDAR GT	oxyfluorfen	--	14
	S-metolachlor	Dual II Magnum	15
PREFIX	fomesafen	Flexstar	14
	halauxifen-methyl	Arylex	4
QUELEX	florasulam	--	2
	rimsulfuron	Resolve	2
REALM Q	mesotrione	Callisto	27
	clopyralid	Stinger	4
RESICORE	acetochlor	Surpass NXT	15
	mesotrione	Callisto	27
	rimsulfuron	Resolve	2
RESOLVE Q	thifensulfuron-methyl	Harmony	2
	nicosulfuron	Accent Q	2
REVULIN Q	mesotrione	Callisto	27
	propoxycarbazon-sodium	--	2
RIMFIRE MAX	mesosulfuron	--	2
	dicamba	XtendiMax	4
ROUNDUP XTEND	glyphosate	glyphosate	9
	flumioxazin	Valor	14
ROWEL FX	chlorimuron-ethyl	Classic	2
	S-metolachlor	Dual II Magnum	15
SEQUENCE	glyphosate	glyphosate	9

Premix trade name*	Active ingredient	Product trade name* example	Site of action
SOLSTICE	mesotrione	Callisto	27
	fluthiacet-methyl	Cadet	14
SONIC	sulfentrazone	Spartan	14
	cloransulam-methyl	FirstRate	2
SPARTAN CHARGE	sulfentrazone	Spartan	14
	carfentrazone-ethyl	Aim	14
SPARTAN ELITE	sulfentrazone	Spartan	14
	S-metolachlor	Dual II Magnum	15
SPIRIT	prosulfuron	Peak	2
	primisulfuron-methyl	Beacon	2
STANZA	clopyralid	Stinger	4
	flumetsulam	Python	2
STARANE FLEX	florasulam	--	2
	fluroxypyr	Starane Ultra	4
STATUS	diflufenzopyr	Distinct	19
	dicamba	Clarity	4
STEADFAST/ STEADFAST Q	nicosulfuron	Accent Q	2
	rimsulfuron	Resolve	2
STORM	bentazon	Basagran	6
	acifluorfen	Ultra Blazer	14
SURESTART/ SURESTART II	acetochlor	Surpass NXT	15
	clopyralid	Stinger	4
SURESTART II	flumetsulam	Python	2
	flumioxazin	Valor	14
SURVEIL	cloransulam-methyl	FirstRate	2
	chlorimuron-ethyl	Classic	2
SYNCHRONY XP	thifensulfuron-methyl	Harmony	2
	acetochlor	Harness	15
TRIPLEFLEX/ TRIPLEFLEX II	clopyralid	Stinger	4
	flumetsulam	Python	2
	chlorimuron-ethyl	Classic	2
TRIVENCE	flumioxazin	Valor	14
	metribuzin	Tricor	5
	flumioxazin	Valor	14
VALOR XLT	flumioxazin	Valor	14
	chlorimuron-ethyl	Classic	2
VARISTO	imazamox	Raptor	2
	bentazon	Basagran	6
VELPAR ALFAMAX	hexazinone	Velpar	5
	diuron	--	7
VERDICT	saflufenacil	Sharpen	14
	dimethenamid-P	Outlook	15
WARRANT ULTRA	fomesafen	Reflex	14
	acetochlor	Warrant	15
WELD	MCPA	MCPA	4
	fluroxypyr	Starane	4
	clopyralid	Stinger	4
WIDEMATCH	clopyralid	Stinger	4
	fluroxypyr	Starane	4
WOLVERINE ADVANCED	fenoxaprop-P	--	1
	pyrasulfotole	--	27
YUKON	bromoxynil	Brox	6
	dicamba	Banvel	4
ZEMAX	halosulfuron-methyl	Permit	2
	mesotrione	Callisto	27
ZIDUA PRO	S-metolachlor	Dual II Magnum	15
	imazethapyr	Pursuit	2
	saflufenacil	Sharpen	14
ZIDUA PRO	pyroxasulfone	Zidua	15