

## Herbicides, Formulations, Manufacturers, and Crops

Trade Name*	MOA Group	Active Ingredient	Manufacturer	Crops
AAtrex 4WDL 90 WDG	Group 5	atrazine	Syngenta	corn (field, popcorn), grain sorghum
Abundit Extra [3 lb ae/gal]	Group 9	glyphosate (isopropylamine salt)	DuPont	corn (field, popcorn, sweet), soybean
Accent (SP) 75DF	Group 2	nicosulfuron (75%)	DuPont	corn (field, popcorn, sweet)
Accent Q	Group 2	nicosulfuron (54.5%)+ isoxadifen (safener)	DuPont	corn (field, popcorn, sweet)
Accolade	Group 2	flumetsulam	FMC	corn (field), soybean
Acumen 3.3EC	Group 3	pendimethalin	Tenkoz	corn (field, popcorn), soybean, tobacco
Acuron	Group 15 Group 5 Group 27 Group 27	S-metolachlor (2.14 lb) + atrazine (1.0 lb) + mesotrione (0.24 lb) + bicyclopyrone (0.06 lb) + benoxacor (safener)	Syngenta	corn (field, popcorn, sweet)
Acuron Flexi	Group 15 Group 27 Group 27	S-metolachlor (2.86 lb) + mesotrione (0.32 lb) + bicyclopyrone (0.08 lb) + benoxacor (safener)	Syngenta	corn (field, popcorn, sweet)
Afforia 50.8 WDG	Group 2 Group 2 Group 14	thifensulfuron (5%) + tribenuron (5%) + flumioxazin (40.8%)	DuPont	soybean
Aim 1.9EW or Aim 2EC	Group 14	carfentrazone	FMC	corn (field, popcorn), grain sorghum, soybean, wheat, barley
Andross	Group 14	fomesafen (1.88 lb)	Rotam N America	soybean
Anthem (2.15L)	Group 14 Group 15	fluthiacet-methyl (0.063 lb) + pyroxasulfone (2.087 lb)	FMC	corn (field, popcorn, sweet), soybean
Anthem ATZ (4.5S)	Group 5 Group 14 Group 15	atrazine (4.006 lb) + fluthiacet-methyl (0.014 lb) + pyroxasulfone (0.485 lb)	FMC	corn (field, popcorn, sweet)
Anthem Flex (4SE)	Group 14 Group 15	carfentrazone (0.267 lb) + pyroxasulfone (3.733 lb)	FMC	wheat
Anthem MAXX (4.3SC)	Group 14 Group 15	fluthiacet-methyl (0.126 lb) + pyroxasulfone (4.174 lb)	FMC	corn (field, popcorn, sweet), soybean
Armezon 2.8SC	Group 27	topramezone	BASF	corn (field, popcorn, sweet)
Armezon PRO (6.25L)	Group 15 Group 27	dimethenamid-P (5.25 lb) + topramezone (0.1 lb)	BASF	corn (field, popcorn, sweet)
Arrow 2EC	Group 1	clethodim	ADAMA	soybean
Assure II 0.88E	Group 1	quizalofop P-ethyl	DuPont	soybean
Atrazine 4 WDL 90 WDG	Group 5	atrazine	(various)	corn (field, popcorn), grain sorghum
Audit 75 WDG	Group 2	thifensulfuron (56.25%) + tribenuron (18.75%)	Arysta Life Science	wheat, barley, corn(field), grain sorghum, soybean, fallow
Authority Assist 4L	Group 14 Group 2	sulfentrazone (3.33 lb) + imazethapyr (0.67 lb)	FMC	soybean
Authority Elite 7L	Group 14 Group 15	sulfentrazone (0.7 lb) + S-metolachlor (6.3 lb)	FMC	soybean
Authority First (70DF)	Group 14 Group 2	sulfentrazone (62.1%) + cloransulam (7.9%)	FMC	soybean
Authority Maxx (60DF)	Group 14 Group 2	sulfentrazone (62.12%) + chlorimuron (3.88%)	FMC	soybean
Authority MTZ 45DF	Group 14 Group 5	sulfentrazone (18%) + metribuzin (27%)	FMC	soybean

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Authority XL 70DF	Group 14 Group 2	sulfentrazone (62.22%) + chlorimuron (7.78%)	FMC	soybean
Axial XL 0.42EC	Group 1	pinoxaden	Syngenta	wheat, barley
Axiom 68DF	Group 15 Group 5	flufenacet (54.4%) + metribuzin (13.6%)	Bayer CropScience	corn (field), soybean, wheat
Balance Flexx	Group 27(28)	isoxaflutole (2 lb) + cyprosulfamide (safener)	Bayer CropScience	corn (field)
Banvel 4S	Group 4	dicamba (dimethylamine salt)	Arysta Life Science	corn, grain sorghum, wheat, barley, oats
Basagran 4S	Group 6	bentazon	Arysta Life Science	corn (field, popcorn), grain sorghum, soybean
Basis 75 WDG	Group 2 Group 2	rimsulfuron (50%) + thifensulfuron (25%)	DuPont	corn (field)
Basis Blend	Group 2 Group 2	rimsulfuron (20%) + thifensulfuron (10%)	DuPont	corn (field)
Battle Star	Group 14	fomesafen (1.88 lb)	Albaugh	soybean
Battle Star GT	Group 14 Group 9	fomesafen (0.54 lb) + glyphosate (2.26 lb)	Albaugh	soybean
Beacon 75DF	Group 2	primisulfuron	Syngenta	corn (field, popcorn)
Bellum 4SC	Group 27	mesotrione (4 lb)	Rotam	corn (field, popcorn, sweet corn), sorghum (grain, sweet)
Bestow 25DF	Group 2	rimsulfuron (25%)	Cheminova	corn (field)
Bicep II Magnum 5.5L	Group 15 Group 5	S-metolachlor (2.4 lb) + atrazine (3.1 lb) + benoxacor (safener)	Syngenta	corn (all types), grain sorghum
Boundary 6.5EC	Group 15 Group 5	S-metolachlor (5.25 lb) + metribuzin (1.25 lb)	Syngenta	Soybean
Brawl II 7.64EC	Group 15	S-metolachlor (2.4 lb) + benoxacor (safener)	Tenkoz	corn (all types), soybean, grain & forage sorghum
Brawl II ATZ 5.5L	Group 15 Group 5	S-metolachlor (2.4 lb) + atrazine (3.1 lb) + benoxacor (safener)	Tenkoz	corn (all types), grain sorghum
Breakfree NXT 7E	Group 15	acetochlor (7 lb)+ dichlormid (safener)	DuPont	corn (field, popcorn)
Breakfree NXT ATZ 5.6L	Group 15 Group 5	acetochlor (3.1 lb) + atrazine (2.5 lb) + dichlormid (safener)	DuPont	corn (field, popcorn)
Broadaxe or BroadAxe XC	Group 14 Group 15	sulfentrazone (0.7 lb) + S-metolachlor (6.3 lb)	FMC Syngenta	soybean
Buccaneer 4S or Buccaneer Plus [3 lb ae/gal]	Group 9	glyphosate (isopropylamine salt)	Tenkoz	corn (field, popcorn), grain sorghum, soybean, wheat, barley
Buccaneer 5 [3.75 lb ae/gal]	Group 9	glyphosate (isopropylamine salt)	Tenkoz	corn (field, popcorn), grain sorghum, soybean, wheat, barley
Buctril 2EC	Group 6	bromoxynil (2 lb)	Bayer CropScience	corn (field, popcorn), grain sorghum, wheat, barley, oats
Butyrac 200 2EC	Group 4	2,4-DB	Albaugh	Soybean
Cadet 0.91EC	Group 14	fluthiacet-methyl (0.91 lb)	FMC	corn (field, popcorn), soybean
Callisto 4SC	Group 27	mesotrione (4 lb)	Syngenta	corn (field, popcorn, sweet corn), sorghum (grain, sweet)
Callisto GT (4.18L)	Group 9 Group 27(28)	glyphosate (3.8 lb) + mesotrione (0.38 lb)	Syngenta	corn (field)

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Callisto Xtra 3.7L	Group 5 Group 27(28)	atrazine (3.2 lb) + mesotrione (0.5 lb)	Syngenta	corn (field, yellow popcorn, silage, sweet corn)
Canopy 75WDG	Group 2 Group 5	chlorimuron (10.7 %) + metriburin (64.3%)	DuPont	Soybean
Canopy Blend	Group 2 Group 5	chlorimuron (8.3 %) + metribuzin (50%)	DuPont	soybean
Canopy EX 29.5 WDG	Group 2 Group 2	chlorimuron (22.7 %) + tribenuron (6.8%)	DuPont	Soybean
Capreno 3.45SC	Group 2 Group 27(28)	thiencarbozone (0.57 lb) + tembotrione (2.88 lb) + isoxadifen (safener)	Bayer CropScience	corn (field, popcorn, sweet corn)
Celebrity Plus	Group 4 Group 19 Group 2	dicamba (42.4%) + diflufenzopyr (17%) + nicosulfuron (10.6%)	BASF	corn (field)
Charger Basic 7.62 EC	Group 15	S-metolachlor	Winfield Solutions	corn (all types), grain sorghum, soybean
Charger Max 7.64EC	Group 15	S-metolachlor + (seed safener)	Winfield Solutions	corn (all types), grain sorghum, soybean
Charger Max ATZ 5.5 L	Group 15 Group 5	S-metolachlor (2.4 lb) + atrazine (3.1 lb) + (seed safener)	Winfield Solutions	corn (all types), grain sorghum
Cheetah	Group 10	glufosinate-ammon. (2.34 lb)	Nufarm	corn (field), soybean
Cheetah Max	Group 10 Group 14	glufosinate-ammonium (2 lb)+ fomesafen (1 lb)	Nufarm	soybean
Cinch 7.64EC	Group 15	S-metolachlor + benoxacor (safener)	DuPont	corn (all types), grain sorghum, soybean
Cinch ATZ 5.5L	Group 15 Group 5	S-metolachlor (2.4 lb) + atrazine (3.1 lb) + benoxacor (safener)	DuPont	corn (all types), grain sorghum
Cinco [4 lb ae/gal]	Group 9	glyphosate (isopropylamine salt)	Loveland Products	corn (field, popcorn), grain sorghum, soybean, wheat, barley
Clarity 4S	Group 4	dicamba (diglycolamine salt)	BASF	corn (field, popcorn), grain sorghum, wheat, barley
Clash	Group 4	dicamba (diglycolamine salt)	Nufarm	corn, grain sorghum, wheat, barley, oats
Classic 25DF	Group 2	chlorimuron	DuPont	soybean
Cloak 75WDG	Group 2 Group 5	chlorimuron (10.7% + metribuzin (64.3%)	Nufarm	soybean
Cloak EX 29.5WDG	Group 2 Group 2	chlorimuron (22.7% + tribenuron (6.8%)	Nufarm	soybean
Cobra 2EC	Group 14	Lactofen	Valent	soybean
Command 3ME	Group 13	clomazone	FMC	soybean, tobacco
Confidence 7E	Group 15	acetochlor + (safener)	Agrisolutions	corn (field, popcorn)
Confidence Xtra 5.6L	Group 15 Group 5	acetochlor (3.1 lb) + atrazine (2.5 lb) + (safener)	Agrisolutions	corn (field, popcorn)
Cornerstone or Cornerstone Plus [3 lb ae/gal]	Group 9	glyphosate (isopropylamine salt)	Agrisolutions	corn (field, popcorn), grain sorghum, soybean, wheat, barley
Cornerstone 5 Plus [4 lb ae/gal]	Group 9	glyphosate (isopropylamine salt)	Agrisolutions	corn (field, popcorn), grain sorghum, soybean, wheat, barley
Corvus 2.63L	Group 2 Group 27(28)	thiencarbozone (0.75 lb) + isoxaflutole (1.88 lb) + safener	Bayer CropScience	corn (field)

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Trade Name*	MOA Group	Active Ingredient	Manufacturer	Crops
Credit Xtreme [4.5 lb ae/gal]	Group 9	glyphosate [isopropylamine salt (2.5 lb)+ potassium salt (2.0 lb)]	Nufarm	corn (field, popcorn), grain sorghum, soybean, wheat, barley
Crusher 50WDG	Group 2 Group 2	rimsulfuron (25%) + thifensulfuron-methyl (25%)	Chemnova	corn (field), soybean
2,4-D [several forms]	Group 4	2,4-D	(various)	corn, grain sorghum, soybean, wheat, barley
Dawn 2L	Group 14	fomesafen	Chemnova	soybean
Degree 3.8CS	Group 15	acetochlor + MON13900 (safener)	Monsanto	corn (field, popcorn, sweet)
Degree Xtra 4.04CS	Group 15 Group 5	acetochlor (2.7 lb) + atrazine (1.34 lb) + MON13900 (safener)	Monsanto	corn (field, popcorn), grain sorghum
Diablo 4S	Group 4	dicamba (dimethylamine salt)	Nufarm	corn, grain sorghum, wheat, barley, oats
DiFlexx 4SC	Group 4	dicamba (diglycolamine salt) + cyprosulfamide (safener)	Bayer CropScience	corn (field, silage, popcorn)
DiFlexx Duo 2.13SC	Group 4 Group 27	dicamba (1.26 lb ae) + tembotrione (0.27 lb) cyprosulfamide (safener)	Bayer CropScience	corn (field, silage, popcorn)
Discover NG 0.5EC	Group 1	clodinafop-propargyl	Syngenta	wheat
Dual II Magnum 7.64EC	Group 15	S-metolachlor + benoxacor (safener)	Syngenta	corn (all types), grain sorghum, soybean
Duramax [4 lb ae/gal]	Group 9	glyphosate (dimethylamine salt)	Dow AgroSciences	corn (field, popcorn), grain sorghum, soybean, wheat, barley
Durango DMA [4 lb ae/gal]	Group 9	glyphosate (dimethylamine salt)	Dow AgroSciences	corn (field, popcorn), grain sorghum, soybean, wheat, barley
Encompass 51DG	Group 14	flumioxazin	Tenkoz	soybean
Enlist Duo	Group 4 Group 9	2,4-D [choline salt] (1.6 lb) + glyphosate [DMA salt] (1.7 lb)	Dow AgroSciences	corn, soybean [ <i>Enlist</i> ]
Envive 41.3DG	Group 2 Group 2 Group 14	chlorimuron (9.2%) + thifensulfuron (2.9%) + flumioxazin (29.2%)	DuPont	soybean
Establish 6E	Group 15	dimethenamid-P	Tenkoz	corn (field, popcorn), grain sorghum, soybean
Establish ATZ	Group 15 Group 5	dimethenamid-P (1.7 lb) + atrazine (3.3 lb)	Tenkoz	corn (field, popcorn), grain sorghum
Expert 4.88L	Group 15 Group 5 Group 9	S-metolachlor (1.74 lb) + atrazine (2.14 lb) + glyphosate [IPA salt] (1.0 lb)	Syngenta	corn (field corn, Roundup Ready hybrids, popcorn, sweet corn), grain sorghum, forage sorghum
Express (TotalSol) 50 DF	Group 2	tribenuron-methyl	DuPont	corn (field), grain sorghum, soybean, wheat, barley, fall fallow
Extra Credit 5	Group 9	glyphosate [IPA salt] (3.75 lb)	Nufarm	corn (field, popcorn), grain sorghum, soybean, wheat, barley
Extreme 2.17L	Group 2 Group 9	imazethapyr (0.17 lb) + glyphosate [IPA salt] (2 lb)	BASF	soybean
Fierce 76 WDG	Group 14 Group 15	flumioxazin (33.5%) + pyroxasulfone (42.5%)	Valent	corn (field), soybean
Fierce XLT	Group 2 Group 14 Group 15	chlorimuron (6.67%) flumioxazin (24.57 %) pyroxasulfone (31.7%)	Valent	soybean
Finesse 75DF	Group 2 Group 2	chlorsulfuron (62.5%) + metsulfuron-methyl (12.5%)	DuPont	wheat

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Finesse Grass & Broadleaf 71.7DF	Group 2 Group 2	chlorsulfuron (25%) + flucarbazone (46.7%)	DuPont	wheat
Firestorm 3S	Group 22	paraquat	Chemtura	corn (field, popcorn), grain sorghum, soybean, wheat, barley
FirstRate 84WDG	Group 2	cloransulam	Dow AgroSciences	soybean
FirstShot SG (TotalSol)	Group 2 Group 2	thifensulfuron (25%) + tribenuron (25%)	DuPont	corn (field), grain sorghum, soybean, wheat, barley, fallow
Flexstar 1.88L	Group 14	fomesafen	Syngenta	soybean
Flexstar GT 3.5 [2.82S]	Group 14 Group 9	fomesafen (0.56 lb) + glyphosate (2.26 lb)	Syngenta	soybean
Forfeit 280SL	Group 10	glufosinate-ammonium (2.34 lb)	Loveland	corn (field), soybean [LibertyLink]
FulTime NXT [4SE]	Group 15 Group 5	acetochlor (2.7 lb) + atrazine (1.34 lb)	Dow AgroSciences	corn (field, popcorn, sweet)
Fusilade DX 2E	Group 1	fluazifop-P-butyl (2 lb)	Syngenta	soybean
Fusion 2.56EC	Group 1 Group 1	fluazifop-P-butyl (2 lb) + fenoxaprop-P-ethyl (0.56 lb)	Syngenta	soybean
Glory 75DF Glory 4L	Group 5	metribuzin (75%)	ADAMA	Corn (field), soybean, wheat (tolerant varieties)
Gly-4 Plus [3 lb ae/gal]	Group 9	glyphosate (isopropylamine salt)	UniversalCrop Protection	corn (field, popcorn), grain sorghum, soybean, wheat, barley
Glyfos X-TRA [3 lb ae/gal]	Group 9	glyphosate (isopropylamine salt)	Cheminova	corn (field, popcorn), grain sorghum, soybean, wheat, barley
Glyphogan [3 lb ae/gal]	Group 9	glyphosate (isopropylamine salt)	Makhteshim Agan	corn (field, popcorn), grain sorghum, soybean, wheat, barley
Gly Star Plus [3 lb ae/gal]	Group 9	glyphosate (isopropylamine salt)	Albaugh	corn (field, popcorn), grain sorghum, soybean, wheat, barley
Gramoxone SL	Group 22	paraquat (2 lb)	Syngenta	corn (field, popcorn), grain sorghum, soybean, wheat, barley
Guardman Max 5E	Group 15 Group 5	dimethenamid-P (1.7 lb) + atrazine (3.3 lb)	BASF	corn (field, popcorn), grain sorghum
Halex GT [4.39EC]	Group 15 Group 9 Group 27(28)	S-metholachlor (2.09) + glyphosate (2.09) + mesotrione (0.209)	Syngenta	corn (Glyphosate-Tolerant hybrids)
Harass 75DF	Group 2	thifensulfuron (75%)	Cheminova	wheat, barley, oats, corn (field), grain sorghum, soybean, fallow
Harmony Extra (TotalSol) 50SG	Group 2 Group 2	thifensulfuron (33.33%) + tribenuron (16.67%)	DuPont	wheat, barley, oats, corn (field), grain sorghum, soybean, fallow
Harmony (TotalSol) 50SG	Group 2	thifensulfuron (50%)	DuPont	wheat, barley, oats, corn (field), grain sorghum, soybean, fallow
Harness 7E	Group 15	acetochlor + furlazole (safener)	Monsanto	corn (field, popcorn)
Harness Xtra 5.6L	Group 15 Group 5	acetochlor (3.1 lb) + atrazine (2.5 lb) + furlazole (safener)	Monsanto	corn (field, popcorn)
Helmquat 3SL	Group 22	paraquat	HELM AGRO	corn (field, popcorn), grain sorghum, soybean, wheat, barley
Helosate Plus [3 lb ae/gal]	Group 9	glyphosate (isopropylamine salt)	HELM AGRO	corn (field, popcorn), grain sorghum, soybean, wheat, barley
Honcho or Honcho Plus [3 lb ae/gal]	Group 9	glyphosate (isopropylamine salt)	Monsanto	corn (field, popcorn), grain sorghum, soybean, wheat, barley

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Hornet 68.5WDG	Group 2 Group 4	flumetsulam (18.5%) + clopyralid (50%)	Dow AgroSciences	corn (field)
Hoss Ultra [3 lb ae/gal]	Group 9	glyphosate (isopropylamine salt)	Helena	corn (field, popcorn), grain sorghum, soybean, wheat, barley
Huskie	Group 27 Group 6	pyrasulfotole (0.31 lb) + bromoxynil (1.75 lb)	Bayer CropScience	wheat, barley, grain sorghum
Impact 2.8SC	Group 27(28)	topramezone	AMVAC	corn (field, popcorn, sweet)
Incinerate 4SC	Group 27	mesotrione (4 lb)	WinField	corn (field, popcorn, sweet corn), sorghum (grain, sweet)
Instigate 45.8 WDG	Group 2 Group 27(28)	rimsulfuron (4.17%) + mesotrione (41.67%)	DuPont	corn (field)
Intensity 2EC	Group 1	clethodim	Loveland	soybean
IntensityOne 0.97EC	Group 1	clethodim	Loveland	soybean, corn (field)
Interline (SL)	Group 10	glufosinate (2.34 lb)	United Phosphorus	corn (field), soybean [ <i>LibertyLink</i> ]
Intimidator	Group 15 Group 5 Group 14	S-metolachlor (3.39 lb) + metribuzin (0.75 lb) + fomesafen (0.67 lb)	Loveland	soybean
Keystone NXT 5.6SE	Group 15 Group 5	acetochlor (3.1 lb) + atrazine (2.5 lb)	Dow AgroSciences	corn (field, popcorn, sweet)
Laudis	Group 27(28)	tembotrione (3.5 lb)	Bayer CropScience	corn (field, popcorn, sweet)
LeadOff 33.4WDG	Group 2 Group 2	rimsulfuron (16.7%) + thifensulfuron-methyl (16.7%)	DuPont	corn (field), soybean
Lexar EZ	Group 15 Group 27(28) Group 5	S-metolachlor (1.74 lb) + mesotrione (0.224 lb) + atrazine (1.74 lb) + benoxacor (safener)	Syngenta	corn (field, popcorn, sweet), grain sorghum
Liberty 280SL	Group 10	glufosinate-ammonium (2.34 lb)	Bayer CropScience	corn (field), soybean [ <i>LibertyLink</i> ]
Linex 4L	Group 7	linuron (4 lb)	Tessenderlo Kerley	soybean
Lumax EZ	Group 15 Group 27(28) Group 5	S-metolachlor (2.49 lb) + mesotrione (0.249 lb) + atrazine (0.935 lb) + benoxacor (safener)	Syngenta	corn (field, popcorn, sweet), grain sorghum
Mad Dog or Mad Dog Plus [3 lb ae/gal]	Group 9	glyphosate (isopropylamine salt)	Loveland	corn (field, popcorn), grain sorghum, soybean, wheat, barley
Maestro 2EC Maestro 4EC	Group 6	bromoxynil	Nufarm	corn (field, popcorn), sorghum, wheat, barley, oats, rye, triticale
Marksman 3.2S	Group 4 Group 5	dicamba (1.1 lb) + atrazine (2.1 lb)	BASF	corn (field, popcorn)
Marvel 3L	Group 14 Group 14	fluthiacet (0.117 lb) + fomesafen (2.883 lb)	FMC	soybean
Matador	Group 15 Group 5 Group 2	metolachlor (4.01 lb) + metribuzin (0.56 lb) + imazethapyr (0.13)	Loveland	soybean
MCPA	Group 4	MCPA	(various)	small grains
Medal 7.62EC	Group 15	S-metolachlor	Syngenta	corn (all types), grain & forage sorghum, soybean
Medal II 7.64EC	Group 15	S-metolachlor + benoxacor (safener)	Syngenta	corn (all types), grain & forage sorghum, soybean
Medal II AT 5.5L or Medal II ATZ	Group 15 Group 5	S-metolachlor (2.4 lb) + atrazine (3.1 lb) + benoxacor (safener)	Syngenta	corn (all types), grain & forage sorghum
Metribuzin 75DF	Group 5	metribuzin (75%)	ADAMA	corn(field), soybean, wheat (tolerant varieties)

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Trade Name*	MOA Group	Active Ingredient	Manufacturer	Crops
Milo-Pro 4F	Group 5	propazine (4.0 lb)	Albaugh	grain sorghum
Mirage or Mirage Plus [3 lb ae/gal]	Group 9	glyphosate (isopropylamine salt)	Loveland	corn (field, popcorn), grain sorghum, soybean, wheat, barley
Nimble 75DF	Group 2 Group 2	thifensulfuron (50%) + tribenuron (25%)	FMC	wheat, barley, oats, corn (field), grain sorghum, soybean, fallow
NorthStar 47.4DG	Group 2 Group 4	primisulfuron (7.5%) + dicamba [sodium salt] (39.9%)	Syngenta	corn (field, popcorn)
OpTill 68WDG	Group 14 Group 2	saflufenacil (17.8%) + imazethapyr (50.2%)	BASF	corn (CLEARFIELD hybrids), soybean
OpTill PRO [co-pack]	Group 14 Group 2 Group 15	saflufenacil (17.8%) + imazethapyr (50.2%) & dimethenamid (6 lb)	BASF	corn (CLEARFIELD hybrids), soybean
Olympus Flex	Group 2 Group 2	propoxycarbazone (6.75%) + mesosulfuron (4.5%)	Bayer CropScience	wheat
Osprey 4.5WDG	Group 2	mesosulfuron-methyl	Bayer CropScience	wheat
Outflank (51WDG)	Group 14	flumioxazin (51%)	ADAMA	corn (field), soybean, wheat
Outlook 6E	Group 15	dimethenamid-P	BASF	corn (field, popcorn), grain sorghum, soybean
Panoflex 50SG	Group 2 Group 2	tribenuron (40%) + thifensulfuron (10%)	DuPont	corn (field), soybean, wheat, fallow, burndown, post harvest,
Panther 51WDG	Group 14	flumioxazin (51%)	Nufarm	corn (field), soybean, wheat
Panther SC	Group 14	flumioxazin (4 lb)	Nufarm	corn (field), soybean, wheat
Parallel 7.8E	Group 15	metolachlor + safener	ADAMA	corn (all types), grain & forage sorghum, soybean
Parallel Plus 5.5L	Group 15 Group 5	metolachlor (2.7 lb) + atrazine (2.8 lb) + benoxacor (safener)	ADAMA	corn, grain sorghum
Parazone 3SL	Group 22	paraquat	ADAMA	corn (field, popcorn), grain sorghum, soybean, wheat, barley
Permit 75DF	Group 2	halosulfuron	Gowan	corn (field), grain sorghum
Phoenix 2EC	Group 14	lactofen	Valent	soybean
Poast 1.5E	Group 1	sethoxydim	Micro Flo /BASF	soybean, tobacco
Poast Plus 1EC	Group 1	sethoxydim	BASF	soybean
PowerFlex HL	Group 2	pyroxulam (13%)	Dow AgroSciences	wheat
Prefix 5.29L	Group 15 Group 14	S-metolachlor (4.34 lb) + fomesafen (0.95 lb)	Syngenta	soybean
Prequel 45WDG	Group 2 Group 27(28)	rimsulfuron (15%) + isoxaflutole (30%)	DuPont	corn (field)
Presidual 6.5EC	Group 15 Group 5	S-metolachlor (5.25 lb) + metribuzin (1.25 lb)	WinField	Soybean
Princep 4L 90DF	Group 5	simazine	Syngenta	corn (all types)
Prowl 3.3EC	Group 3	pendimethalin	BASF	corn (field, popcorn), soybean, tobacco
Prowl H <sub>2</sub> O 3.8L	Group 3	pendimethalin	BASF	corn (field, popcorn), soybean, tobacco, wheat
Pruvin	Group 2	rimsulfuron (25%)	ADAMA	corn (field)
Pursuit 2S	Group 2	imazethapyr	BASF	corn (CLEARFIELD hybrids), soybean
Python 80WDG	Group 2	flumetsulam	Dow AgroSciences	corn (field), soybean

## Herbicides, Formulations, Manufacturers, and Crops

Trade Name*	MOA Group	Active Ingredient	Manufacturer	Crops
Quelex	Group 2 Group 4	florasulam (10%) + halauxifen-methyl (10,4%) + cloquintocet (safener)	Dow AgroSciences	barley, triticale, wheat
Raptor 1S	Group 2	imazamox	BASF	soybean
Realm Q 38.8WDG	Group 2 Group 27(28)	rimsulfuron (7.5%) + mesotrione (31.25%) + isoxadifen [safener]	DuPont	corn (field)
Reflex	Group 14	fomesafen (2 lb)	Syngenta	soybean
Report Extra 75DF	Group 2 Group 2	chlorsulfuron (62.5%) + metsulfuron-methyl (12.5%)	Chemnova	wheat, barley
Resicore 3.29SE	Group 15 Group 27 Group 4	acetochlor (2.8 lb) + mesotrione (0.3 lb) + clopyralid (0.19 lb) + furlazole (safener)	Dow AgroSciences	corn (field, silage, popcorn)
Resolve Q	Group 2 Group 2	rimsulfuron (18.4%) + thifensulfuron (4.0%)	DuPont	corn (field)
Resource 0.86EC	Group 14	flumiclorac pentyl	Valent	corn (field), soybean
Revulin Q	Group 2 Group 27	nicosulfuron (14.4%)+ mesotrione (36.8% + isoxadifen (safener)	DuPont	corn (field, popcorn, sweet)
Rhythm 1.88L	Group 14	fomesafen	FMC	soybean
Rifle	Group 2	dicamba (dimethylamine salt)	Loveland	corn, grain sorghum, wheat, barley, oats
Ringside	Group 14	fomesafen (2 lb)	Syngenta	soybean
Roundup Ultra [3 lb ae/gal]	Group 9	glyphosate (isopropylamine salt)	Monsanto	corn (field, popcorn), grain sorghum, soybean, wheat, barley
Roundup PowerMAX [4.5 lb ae/gal]	Group 9	glyphosate (potassium salt)	Monsanto	corn (field, popcorn), grain sorghum, soybean, wheat, barley
Roundup WeatherMAX [4.5 lb ae/gal]	Group 9	glyphosate (potassium salt)	Monsanto	corn (field, popcorn), grain sorghum, soybean, wheat, barley
Rowel	Group 14	flumioxazin	Monsanto	corn (field), soybean
RowelFX	Group 14 Group 2	flumioxazin chlorimuron	Monsanto	soybean
Rugged	Group 4	2,4-D (3.49 lb ae)	Winfield	corn, grain sorghum, soybean, wheat, barley, oats, rye
Rumble	Group 14	fomesafen (1.88 lb)	ADAMA	soybean
Sandea 75DF	Group 2	halosulfuron	Gowan	corn (field), grain sorghum
Scepter 70DG	Group 2	imazaquin	AMVAC	soybean
Section 2EC	Group 1	clethodim	Winfield	soybean
Select 2EC	Group 1	clethodim	Valent	soybean
Select MAX 0.97EC	Group 1	clethodim	Valent	soybean, corn (field)
Sequence 5.25L	Group 9 Group 15	glyphosate (2.25 lb ae) + S-metolachlor (3 lb)	Syngenta	corn (field, popcorn), grain & forage sorghum, soybean
Shadow	Group 1	clethodim (2 lb)	Arysta	soybean
Shafen	Group 14	fomesafen (2 lb)	Shardra USA	soybean
Shafen Star	Group 14	fomesafen (1.88 lb)	Shardra USA	soybean
Sharpen 2.85S	Group 14	saflufenacil (2.85 lb)	BASF	corn(field, popcorn),grain sorghum, soybean, wheat, barley, oats
Showdown [3 lb ae/gal]	Group 9	glyphosate (isopropylamine + monoammonium salt)	Helena	corn (field, popcorn), grain sorghum, soybean, wheat, barley



## Herbicides, Formulations, Manufacturers, and Crops

Trade Name*	MOA Group	Active Ingredient	Manufacturer	Crops
Simazat 4L	Group 5 Group 5	simazine (2 lb)+ atrazine (2 lb)	Drexel	corn
Solstice 4.216L	Group 14 Group 27	fluthiacet methyl (0.216 lb) + mesotrione (4 lb)	FMC	corn (field), popcorn, sweet)
Sonic 70DG	Group 14 Group 2	sulfentrazone (62.1%) + cloransulam (7.9%)	Dow AgroSciences	soybean
Spartan Charge	Group 14 Group 14	sulfentrazone (3.15 lb) + carfentrazone (0.35 lb)	FMC	soybean
Spirit 57DF	Group 2 Group 2	prosulfuron (14.2%) + primisulfuron (42.8%)	Syngenta	corn (field, popcorn)
Spitfire	Group 4 Group 4	dicamba (0.5 lb) + 2,4-D (3.07 lb)	Nufarm	corn, soybean, wheat
Stalwart 8EC	Group 15	metolachlor	Sipcam Advan	soybean
Starane Ultra 2.8EC	Group 4	fluroxypyr	Dow AgroScience	corn (field), grain sorghum, small grains
Statement 5.24L	Group 15 Group 14	metolachlor (4.33 lb) + fomesafen (0.91 lb)	Chemnova	soybean
Status 56WG	Group 19 Group 4	diflufenzopyr (0.16 lb) + dicamba (0.4 lb) + isoxadifen (safener)	BASF	corn (field)
Steadfast Q	Group 2 Group 2	nicosulfuron (25.2%) + rimsulfuron (12.5%) + isoxadifen (safener)	DuPont	corn (field)
Stealth 3.3EC	Group 3	pendimethalin	Loveland	corn (field, popcorn), soybean, tobacco
Sterling Blue 4S	Group 4	dicamba (4 lb) (dimethylamine salt)	Agrilience	corn, grain sorghum, wheat, barley, oats
Storm 4S	Group 6 Group 14	bentazon (2.67 lb) + acifluorfen (1.33 lb)	United Phosphorus	Soybean
SureStart II 4.25SE	Group 15 Group 2 Group 4	acetochlor (3.75 lb) + flumetsulam (0.12 lb) + clopyralid (0.38 lb) + furfuralazole (safener)	Dow AgroSciences	corn (field, silage)
Surmise (SL)	Group 10	glufosinate (2.34 lb)	Albaugh	corn (field), soybean [ <i>LibertyLink</i> ]
Surpass 6.4EC or Surpass NXT (7SE)	Group 15	acetochlor + dichlormid (safener)	Dow AgroSciences	corn (field, popcorn, sweet)
Surveil	Group 2 Group 14	cloransulam 12% flumioxazin 36%	Dow AgroSciences	soybean
Synchrony XP 28.4DF	Group 2 Group 2	chlorimuron (21.5%) + thifensulfuron (6.9%)	DuPont	soybean (STS varieties)
TailWind 6.5L	Group 15 Group 5	metolachlor (5.25 lb) + metribuzin (1.25 lb)	ADAMA	soybean
Tackle 4.1L	Group 2 Group 9	imazethapyr (0.128 lb) + glyphosate [IPA salt] (4 lb)	Chemnova	soybean
Targa 0.88E	Group 1	quizalofop P-ethyl	Gowan	soybean
ThunderMaster 2.17L	Group 2 Group 9	imazethapyr (0.17 lb) + glyphosate [IPA salt] (2 lb)	Albaugh	Soybean
Top Gun	Group 14	fomesafen ( lb)	Loveland	soybean
TopNotch 3.2CS	Group 15	acetochlor + dichlormid (safener)	Dow AgroSciences	corn (field, popcorn, sweet)
Torment 2.5L	Group 14 Group 2	fomesafen (2 lb) + imazethapyr (0.5 lb)	ADAMA	soybean
TriCor 75DF TriCor 4F	Group 5	metribuzin	United Phosphorus	corn (field), soybean, wheat (tolerant varieties)

## Herbicides, Formulations, Manufacturers, and Crops

Trade Name*	MOA Group	Active Ingredient	Manufacturer	Crops
TripleFLEX II 4.25SE	Group 15 Group 2 Group 4	acetochlor (3.75 lb) + flumetsulam (0.12 lb) + clopyralid (0.38 lb) + furilazole (safener)	Monsanto	corn (field, silage)
Trivence	Group 2 Group 14 Group 5	chlorimuron (3.9%) + flumioxazin (12.8%) + metribuzin (44.6%)	DuPont	soybean
Ultra Blazer 2L	Group 14	acifluorfen	United Phosphorus	soybean
Valor SX 51WDG	Group 14	flumioxazin	Valent	corn (field), soybean
Valor XLT 40.3DG	Group 14 Group 2	flumioxazin (30%) + chlorimuron (10.3%)	Valent	soybean
Verdict	Group 14 Group 15	saflufenacil (0.57 lb) + dimethenamid-P (5.0 lb)	BASF	corn (field, popcorn, silage), soybean
Vise	Group 15 Group 14	metolachlor (4.45 lb) + fomesafen (0.95 lb)	ADAMA	soybean
Vision	Group 4	dicamba (3.8 lb ae)	Helena	corn, grain sorghum, wheat, barley, oats
Volley ATZ NXT 5.6SE	Group 15 Group 5	acetochlor (3.1 lb) + atrazine (2.5 lb)	TENKOZ	corn (field, popcorn)
Volunteer 2EC	Group 1	clethodim	TENKOZ	soybean
Warrant 3CS	Group 15	acetochlor (3 lb)	Monsanto	soybean
Warrant Ultra	Group 15 Group 14	acetochlor (2.82 lb) fomesafen (0.63 lb)	Monsanto	soybean
Weedmaster	Group 4 Group 4	dicamba (2.87 lb) + 2,4-D (1.0 lb)	Nufarm	sorghum
Weedone 638	Group 4	2,4-D (2.8 lb ae) [2,4-D acid+butoxyethyl ester]	Nufarm	corn, sorghum, soybean, small grains
Weedone 650	Group 4	2,4-D (5.64 lb ae) [ethylhexyl ester]	Nufarm	corn, sorghum, soybean, small grains
Weedone LV4	Group 4	2,4-D (3.8 lb ae) [isooctyl ester]	Nufarm	corn, sorghum, soybean, small grains
Yukon 67.5WDG	Group 2 Group 4	halosulfuron (12.5%) + dicamba (55%)	Gowan	corn (field), grain sorghum
Zemax	Group 15 Group 27	S-metolachlor (3.34 lb) + mesotrione (0.33 lb) + benoxacor (safener)	Syngenta	corn (field, sweet, yellow popcorn), grain sorghum
Zidua 85WDG	Group 15	pyroxasulfone (85%)	BASF	corn (field, popcorn, sweet), soybean, wheat
Zidua Pro	Group 14 Group 2 Group 15	saflufenacil (0.48 lb) + imazethapyr (1.33 lb) + pyroxasulfone (2.28 lb)	BASF	soybean
Zone Herbicide	Group 14 Group 2	sulfentrazone (62.2%) + chlorimuron (7.8%)	HELM AGRO	soybean

\*AS=aqueous suspension, DF=dry flowable, EC=emulsifiable concentrate, F=flowable, G=granule, L=liquid, ME or CS= micro-encapsulated, HFP=high flash point formulation, S=water solution, SC=soluble concentrate, SE=suspension emulsion, SG=soluble granule, SL=liquid solution, WDG=water dispersible granule, WDL=water dispersible liquid, WP=wettable powder.