

Table E-5. Important Herbicide Groups for Commercial Vegetables

In the table below, important herbicide groups for vegetable crops grown in the Mid-Atlantic region are listed with their sites of action. Note that more than one herbicide family may have the same site of action.

Trade Name	Active Ingredient	WSSA Group	Herbicide Class	Site of Action
2,4-D	2-4-D	4	Plant growth regulators	IAA-like
Accent Q	nicosulfuron	2	Amino acid biosynthesis	ALS (acetolactate synthase)
Aim	carfentrazone	14	Cell membrane disrupters	PPO (oxidase)
Armezon	topramezone	27	Pigment inhibitors	HPPD (4-hydroxyphenyl-pyruvatedioxygenase)
Assure II	quizalofop	1	Fatty acid (Lipid) biosynthesis inhibitors	ACCase (acetyl coA carboxylase)
Atrazine	atrazine	5	Photosynthesis inhibitors (mobile 1)	Photosystem II
Banvel	dicamba	4	Plant growth regulators	IAA-like
Basagran	bentazon	6	Photosynthesis inhibitors (non-mobile)	Photosystem II
Cadet	fluthiacet	14	Cell membrane disrupters	PPO (protoporphyrinogen oxidase)
Callisto	mesotrione	27	Pigment inhibitors	HPPD (4-hydroxyphenyl-pyruvatedioxygenase)
Caparol	prometryn	5	Photosynthesis inhibitors (mobile 1)	Photosystem II
Chateau	flumioxazin	14	Cell membrane disrupters	PPO (protoporphyrinogen oxidase)
Clarity	dicamba	4	Plant growth regulators	IAA-like
Command	clomazone	13	Pigment inhibitors	Diterpenes (carotenoid biosynthesis)
Curbit	ethalfuralin	3	Seedling growth inhibitors (Root)	Microtubule inhibitors
Dacthal	DCPA	3	Seedling growth inhibitors (Root)	Microtubule inhibitors
Devrinol	napropamide	15	Seedling growth inhibitors (Shoot)	mitosis inhibitor
Dimetric	metribuzin	5	Photosynthesis inhibitors (mobile 1)	Photosystem II
Dual Magnum	s-metolachlor	15	Seedling growth inhibitors (Shoot)	mitosis inhibitor
Eptam	EPTC	8	Seedling growth inhibitors (Shoot)	Lipid synthesis inhibitors
Fusilade	fluazifop	1	Fatty acid (Lipid) biosynthesis inhibitors	ALS (acetolactate synthase)
Glory	metribuzin	5	Photosynthesis inhibitors (mobile 1)	Photosystem II
Glyphosate	glyphosate	9	Amino acid biosynthesis	EPSPS-enzyme
Goal	oxyfluorfen	14	Cell membrane disrupters	PPO (protoporphyrinogen oxidase)
Goal Tender	oxyfluorfen	14	Cell membrane disrupters	PPO (protoporphyrinogen oxidase)
Gramoxone	paraquat	22	Cell membrane disrupters	Photosystem I
Harness	acetochlor	15	Seedling growth inhibitors (Shoot)	mitosis inhibitor
Impact	topramezone	27	Pigment inhibitors	HPPD (4-hydroxyphenyl-pyruvatedioxygenase)
Karmex	diuron	7	Photosynthesis inhibitors (mobile 2)	Photosystem II
Kerb	pronamide	3	Seedling growth inhibitors (Shoot)	mitosis inhibitor
Laudis	tembotrione	27	Pigment inhibitors	HPPD (4-hydroxyphenyl-pyruvatedioxygenase)
Liberty	glufosinate	10	Phosphorylated amino acid (N metabolism disrupter)	Glutamine synthetase
Linex	linuron	7	Photosynthesis inhibitors (mobile 2)	Photosystem II
Lorox	linuron	7	Photosynthesis inhibitors (mobile 2)	Photosystem II
Maestro	bromoxynil	6	Photosynthesis inhibitors (non-mobile)	Photosystem II
Matrix	rimsulfuron	2	Amino acid biosynthesis	ALS (acetolactate synthase)
Metribuzin	metribuzin	5	Photosynthesis inhibitors (mobile 1)	Photosystem II
Outlook	dimethenamid	15	Seedling growth inhibitors (Shoot)	mitosis inhibitor
Permit	halosulfuron	2	Amino acid biosynthesis	ALS (acetolactate synthase)
Poast	sethoxydim	1	Fatty acid (Lipid) biosynthesis inhibitors	ALS (acetolactate synthase)
Prefar	bensulide	8	Seedling growth inhibitors (Shoot)	Lipid synthesis inhibitors
Prowl	pendimethalin	3	Seedling growth inhibitors (Root)	Microtubule inhibitors
Prowl H2O	pendimethalin	3	Seedling growth inhibitors (Root)	Microtubule inhibitors
Pursuit	imazethapyr	2	Amino acid biosynthesis	ALS (acetolactate synthase)
Raptor	imazamox	2	Amino acid biosynthesis	ALS (acetolactate synthase)
Reflex	fomesafen	14	Cell membrane disrupters	PPO (protoporphyrinogen oxidase)
Reglone	diquat	22	Cell membrane disrupters	Photosystem I
Rely	glufosinate	10	Phosphorylated amino acid (N metabolism disrupter)	Glutamine synthetase
Ro-Neet	cycloate	8	Seedling growth inhibitors (Shoot)	Lipid synthesis inhibitors
Roundup	glyphosate	9	Amino acid biosynthesis	EPSPS-enzyme
Sandea	halosulfuron	2	Amino acid biosynthesis	ALS (acetolactate synthase)

Select	clethodim	1	Fatty acid (Lipid) biosynthesis inhibitors	ALS (acetolactate synthase)
Sharpen	saflufenacil	14	Cell membrane disrupters	PPO (protoporphyrinogen oxidase)
Sinbar	terbacil	5	Photosynthesis inhibitors (mobile 1)	Photosystem II
Solicam	norflurazon	12	Pigment inhibitors	PDS (carotenoid biosynthesis)
Spin-Aid	phenmedipham	5	Photosynthesis inhibitors (mobile 1)	Photosystem II
Spur	clopyralid	4	Plant growth regulators	IAA-like
Starane Ultra	fluroxypyr	4	Plant growth regulators	IAA-like
Stinger	clopyralid	4	Plant growth regulators	IAA-like
Surpass	acetochlor	15	Seedling growth inhibitors (Shoot)	mitosis inhibitor
Targa	quizalofop	1	Fatty acid (Lipid) biosynthesis inhibitors	ALS (acetolactate synthase)
Thistrol	MCPB	4	Plant growth regulators	IAA-like
Treflan	trifluralin	3	Seedling growth inhibitors (Root)	Microtubule inhibitors
TriCor	metribuzin	5	Photosynthesis inhibitors (mobile 1)	Photosystem II
Valor	flumioxazin	14	Cell membrane disrupters	PPO (protoporphyrinogen oxidase)
Weedar 64	2-4-D	4	Plant growth regulators	IAA-like
Zeus	sulfentrazone	14	Cell membrane disrupters	PPO (protoporphyrinogen oxidase)
Zidua	pyroxasulfone	15	Seedling shoot inhibitor	Mitosis inhibitor