

## HERBICIDE CLASSIFICATION ACCORDING TO PRIMARY SITE OF ACTION

Resistance Group		Site of Action	Herbicide Families in Group
WSSA	HRAC		
1	A	ACCase (acetyl CoA carboxylase) inhibitor	Aryloxyphenoxy propionate Cyclohexanedione
2	B	ALS (acetolactate synthase) or AHAS (acetohydroxyacid synthase) inhibitor	Imidazolinone Pyrimidinylthio-benzoate Sulfonylamino-carbonyl triazolinone Sulfonylurea Triazolopyrimidine
3	K1	Inhibitor of microtubule assembly	Dinitroaniline Pyridine
4	O	Synthetic auxins	Phenoxy Benzoic acid Carboxylic acid Quinaline carboxylic acid
5	C1	Inhibitor of photosynthesis at photosystem II site A	Phenyl-carbamate Pyridazinone Triazine Triazinone Triazolinone Uracil
6	C3	Inhibitor of photosynthesis at photosystem II site B	Benzothiadiazole Nitrile Phenyl-pyridazine
7	C2	Inhibitor of photosynthesis at photosystem II site A; different binding from group 5	Amide Urea
8	N	Inhibitor of lipid synthesis; not ACCase inhibition	Thiocarbamate Phosphorodithioate*
9	G	EPSP synthase inhibitor	Glycine*
10	H	Glutamine synthetase inhibitor	Phosphinic acids*
11	F3	Carotenoid biosynthesis inhibitor (bleaching)	Triazole
12	F1	PDS (phytoene desaturase) inhibitor (bleaching)	Pyridazinone Pyridinecarboxamide Other

\* Name used by HRAC.

Resistance Group		Site of Action	Herbicide Families in Group
WSSA	HRAC		
13	F4	DOXP (1-deoxy-D-xyulose 5-phosphate synthetase) inhibitor (bleaching)	Isoxazolidinone
14	E	Protox (protoporphyrinogen oxidase) inhibitor	Diphenylether N-phenylphthalimide Oxadiazole Phenylpyrazole Pyrimidindione Thiadiazole Triazinone Triazolone
15	K3	Inhibitor of synthesis of very long-chain fatty acids	Acetamide Chloroacetamide Oxyacetamide Tetrazolinone
16	N	Unknown	Benzofuran
17	Z	Unknown	Organoarsenical
18	I	DHP (7,8-dihydro-pterolate) synthetase inhibitor	Carbamate
19	P	Inhibitor of indoleacetic acid transport	Phthalamate Semicarbazone
20	L	Inhibitor of cell wall synthesis site A	Nitrile
21	L	Inhibitor of cell wall synthesis site B	Benzamide
22	D	Photosystem I electron diverter	Bipyridylum
23	K2	Mitosis inhibitor	Carbanilate
24	M	Membrane disruptor (uncouplers)	Dinitrophenol
25	Z	Unknown	Arylamino propionic acid
26	Z	Unknown	Various
27	F2	Inhibitor of 4-HPPD (4-hydroxy-phenyl-pyruvate dioxygenase) (bleaching)	Isoxazole Pyrazole Triketone