

Publication 75, Guide to Weed Control 2008-2009

Ontario Ministry of Agriculture, Food and Rural Affairs

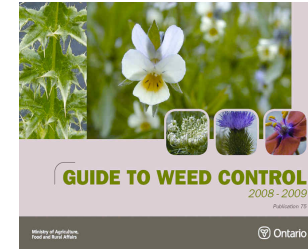


TABLE 4-5. HERBICIDE GROUPINGS FOR ONTARIO

Gr ¹	Site of Action	Single Modes of Action (alphabetic order)	Confirmed herbicide resistant weeds in Ontario
1	Inhibitors of acetyl CoA carboxylase (ACCCase)	Acclaim Super, Achieve, Assure II, Excel Super, Poast, Puma ¹²⁰ Super, Select, Ultra, Venture	Currently none confirmed.
2	Inhibitors of acetolactate synthase (ALS) and also called acetohydroxyacid synthase (AHAS)	Accent, Arsenal, Classic, Elim EP, FirstRate, Muster, Option 2.25 OD, Pinnacle, Prism, Pursuit, Refine Extra, Telar, Ultim, Upbeet	Cocklebur, common ragweed, eastern black nightshade, giant foxtail, green foxtail, green pigweed, lamb's-quarters, redroot pigweed, waterhemp.
3	Microtubule assembly inhibitors	Bonanza, Dacthal W-75, Dimension, Prowl, Rival, Treflan	Currently none confirmed.
4	Synthetic auxins	2,4-D, Banvel II, Caliber, Cobutox, Compitox, Covitox Plus, Desormone, Diphenoprop, Dycleer, Dyvel, Embutox, Estaprop Plus, Garlon, IPCO Dichlorprop-D, IPCO Premium 2-Way XP Turf Herbicide, Killex, Lontrel, MCPA, Mecoprop, Mecocrop 2,4-D, Meco-D, Par III, IPCO Premium 3-Way XP Turf Herbicide, Release, Sword, Target, Topside, Tordon 101, Turf-Rite 2+2, Turboprop, Vanquish	Wild carrot.
5	Inhibitors of photosynthesis at photosystem II, Site A	Aatrex Liquid 480, Atrazine, Gesagard, Hyvar X, Princep, Pronone, Pyramin FL, Sencor, Simadex, Simazine, Sinbar, Spin [□] Aid, Velpar	Barnyard grass, common groundsel, common ragweed, goosefoot, redroot pigweed, waterhemp, wild mustard, witch grass, yellow foxtail.
6	Inhibitors of photosynthesis at photosystem II, Site B	Basagran, Basagran Forté, Koril, Pardner	Green pigweed.
7	Inhibitors of photosynthesis at photosystem II, Site B (alternate binding site)	Diurex 80W, Herbec, Karmex, Lorox	Green pigweed, smooth pigweed.
8	Conjugation of acetyl co-enzyme A	Betasan, Eradicane, Eptam, Ro-Neet	Currently none confirmed.
9	Inhibitors of 5-enolpyruvylshikimate-3-phosphate synthase (EPSP)	Clear-It, Credit, Credit Plus, Expedite Grass & Weed, EZJect, Factor, Factor 540 glyphosate, Glyphos, Roundup Ultra II, Roundup Weathermax, Sharpshooter, Sharpshooter Plus, Touchdown iQ, Touchdown Total, Vantage, Vantage Plus, Vantage Plus Max,	Currently none confirmed.

		Vision	
10	Inhibitors of glutamine synthetase	Ignite, Liberty	Currently none confirmed.
11	Inhibitors of carotenoid biosynthesis	Amitrol	Currently none confirmed.
13	Diterpene synthesis inhibitor	Command 360	Currently none confirmed.
14	Inhibitors of protoporphyrinogen oxidase (Protox)	Aim EC, Blazer, Goal, Reflex, Ronstar	Currently none confirmed.
15	Conjugation of acetyl co-enzyme A	Devrinol, Dual Magnum, Dual II Magnum, Frontier	Currently none confirmed.
19	Inhibitors of auxin transport system	Alanap	Currently none confirmed.
20	Inhibits cell wall synthesis, Site A	Casoron	Currently none confirmed.
22	Photo system I – electron diverters	Gramoxone, Reglone, Reward, Weed & Grass Killer	Canada fleabane, field peppergrass.
23	Inhibitors of mitosis	CIPC	Currently none confirmed.
27	Inhibitors of p-hydroxyphenyl pyruvate dioxygenase (HPPD)	Callisto, Converge Pro, Impact, Infinity	Currently none confirmed.

HERBICIDE GROUPINGS FOR PRE-MIX AND “CO-PACK” PRODUCTS

Premix or “Co-Pack” Trade Name	Component #1 (WSSA Group)	Component #2 (WSSA Group)	Component #3 (WSSA Group)
ACCENT 1-PASS ³	Accent (2)	Peak (2)	Banvel II (4)
ACCENT TOTAL ³	Accent (2)	Distinct (4)	
BATTALION ³	Elim EP (2)	Banvel II (4)	Dual II Magnum (15)
BOUNDARY ³	Sencor (5)	Dual II Magnum (15)	
BROADSTRIKE DUAL MAGNUM	flumetsulam (2)	metolachlor (15)	
BUCTRIL M, BADGE or MEXTROL	MCPA (4)	bromoxynil (6)	
CLEANSWEEP ³	Pursuit (2)	Basagran Forté (6)	
CONQUEST ³	Pursuit (2)	Sencor (5)	
CONVERGE PRO ³	Converge 480 (5)	Converge Pro (27)	
DISTINCT	dicamba (4)	diflufenzopyr (19)	
GALAXY ³	Elim EP (2)	Roundup Weathermax (9)	
GUARDIAN ³	Classic (2)	Touchdown iQ (9)	
INFINITY	bromoxynil (6)	pyrasulfotole (27)	

KROVAR	bromacil (5)	diuron (7)	
LADDOK	atrazine (5)	bentazon (6)	
MARKSMAN	dicamba (4)	atrazine (5)	
MERIDIAN PLUS ³	Meridian (2)	Basagran Forté (6)	
PEAKPLUS ³	Peak (2)	Banvel II (4)	
PRIMEXTRA II MAGNUM	atrazine (5)	s-metolachlor/benoxacor (15)	
SHOTGUN	2,4-D (4)	atrazine (5)	
SUMMIT	primisulfuron (2)	dicamba (4)	
ULTIM TOTAL ³	Ultim (2)	Distinct (4)	
VALOR	imazethapyr (2)	pendimethalin (3)	
VIPER ³	Viper (2)	Reflex (14)	
¹ Herbicide groupings for Ontario follow the Weed Science Society of America's nationally accepted grouping. Groups 12, 13, 16, 17, 18, 21, 24, 25 and 26 are not available in Ontario. ² Products with two or more sites of action are followed by the group numbers involved. ³ Indicates herbicides sold as a co-pack under this trade name.			

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