

QUICK HERBICIDE REFERENCE GUIDE

This factsheet represents herbicides registered on field corn and available as of April 2021. This list can change quickly, and it is recommended to always refer to the Guide to Field Crop Protection and herbicide labels before in-field applications.

*Important pages to note in the Guide to Field Crop Protection 2021 are:

Page 49, Table 8: Herbicide Site of Action and Chemical Family for Resistant Weed Management

Page 55, Table 10: Herbicide-Resistant Weeds in Western Canada

Page 63, Table 5: Weed Control in Corn

*Weed Spectrum that are listed as “see product label for ‘xx’ weed spectrums”, have extensive weeds controlled by that herbicide.

*Crop Staging is stated according to the herbicide label. Where V-staging is not stated, an estimate is provided in brackets. For help with leaf staging, refer to Manitoba Crop Alliance’s VEGETATIVE (V) GROWTH STAGES factsheet.

PRE-PLANT INCORPORATED AND/OR PRE-EMERGENT HERBICIDES				
Herbicide	Active Ingredient	Group	Crop Staging/Timing	Weed Spectrum
Aatrex	atrazine	5	pre-plant incorporated or pre-emergent, and post-emergent VE - V4; please see product label	lamb's quarters, wild mustard, wormseed mustard, purslane, ragweed, redroot pigweed, smartweed, volunteer clover, wild buckwheat, wild oats
Conquer II	bromoxynil + pyraflufen-ethyl	6 + 14	pre-plant or up to 3 days following planting	annual sowthistle, cleavers, cow cockle, dandelion, flixweed, kochia, lamb's quarters, narrow-leaved hawk's-beard, night-flowering catchfly, pineappleweed, redroot pigweed, shepherd's purse, stinkweed, volunteer canola, wild buckwheat, wild mustard
Fierce	flumioxazin + pyroxasulfone	14 + 15	7 - 30 days prior to planting	see product label for pre-emergent weed spectrum
Focus	carfentrazone-ethyl + pyroxasulfone	14 + 15	pre-plant or up to 3 days following planting	see product label for pre-emergent weed spectrum
Frontier Max	dimethanamid	15	pre-plant incorporated	pre-emergent control of green foxtail
Glyphosate	glyphosate	9	up to and including 8 leaf stage (roughly V5-V6)	non-selective; be aware of glyphosate-resistant weeds present
Heat Brands	saflufenacil	14	pre-plant or pre-emergent	see product label for pre-emergent weed spectrum
Heat Complete	saflufenacil + pyroxasulfone	14 + 15	pre-plant, pre-plant incorporated, or pre-emergent	see product label for pre-emergent weed spectrum
Metolachlor	metolachlor	15	pre-plant incorporated or pre-emergent, please see product label	barnyard grass, green foxtail, yellow foxtail, redroot pigweed, American nightshade, eastern black nightshade, yellow nutsedge, waterhemp, witch grass
Primextra II Magnum	metolachlor + atrazine	15 + 5	pre-plant incorporated or pre-emergent, please see product label	barnyard grass, buckwheat, green foxtail, yellow foxtail, lamb's quarters, American nightshade, eastern black nightshade, redroot pigweed, prostrate pigweed, purslane, ragweed, smartweed, wild mustard, witch grass, yellow nutsedge
Simazine	simazine	5	one week prior to planting (incorporated) to 4 days following planting; rainfall required	barnyard grass, wild oats, yellow foxtail, lamb's quarters, purslane, ragweed, smartweed, volunteer clovers, wild buckwheat, perennial species starting from seed
Sortan IS	rimsulfuron	2	pre-emergent, post-emergent up to V3	see product label for pre-emergent and post-emergent weed spectrums
Zidua	pyroxasulfone	15	pre-plant (up to 30 days), pre-emergent or post-emergent up to 4 leaf (V2)	barnyard grass, green foxtail, italian rygrass, wild oats, yellow foxtail, lamb's quarters, kochia, redroot pigweed, waterhemp



POST-EMERGENT HERBICIDES

Herbicide	Active Ingredient	Group	Crop Staging/Timing	Weed Spectrum
2,4-D	2,4-D Amine or Ester	4	Foliar: prior to 6", 6 leaf, V4; Directed spray: 6+" tall	see product label for post-emergent weed spectrum
2,4-DB		4	Directed spray: 15" - tassel, using drop nozzles	see product label for post-emergent weed spectrum
Aatrex	atrazine	5	pre-plant incorporated or pre-emergent, and post-emergent VE - V4; please see product label	lamb's quarters, wild mustard, wormseed mustard, purslane, ragweed, redroot pigweed, smartweed, volunteer clover, wild buckwheat, wild oats
Bentazon	bentazon	6	no staging restrictions	see product label for post-emergent weed spectrum
Bromoxynil	bromoxynil	6	4 - 8 leaf, V2 - V5, later than that, use drop nozzles	american nightshade, annual smartweed, bluebur, buckwheat, cocklebur, common groundsel, common ragweed, cow cockle, kochia, lamb's quarters, pigweed, russian thistle, stinkweed, volunteer canola, wild mustard
Bromoxynil/MCPA	MCPA + bromoxynil	4 + 6	4 - 6 leaf stage, V2 - V3	see product label for post-emergent weed spectrum
Dicamba	dicamba	4	up to 8" tall, use drop nozzles when taller	see product label for post-emergent weed spectrum
Distinct	dicamba + diflufenzopyr	4 + 19	2 - 6 leaf stage, late VE - V3	see product label for post-emergent weed spectrum
Eclipse XC	clopyralid + glyphosate	4 + 9	glyphosate-tolerant corn only: VE - V6	see product label for post-emergent weed spectrum
Enlist DUO	2,4-D + glyphosate	4 + 9	2,4-D + glyphosate-tolerant corn only: up to V8 or 48" tall	see product label for post-emergent weed spectrum
Glufosinate 200 SN	glufosinate	10	glufosinate-tolerant corn only: 1 - 8 leaf stage	see product label for post-emergent weed spectrum
Glyphosate	glyphosate	9	glyphosate-tolerant corn only: up to and including 8 leaf stage (roughly V5-V6)	non-selective, be aware of glyphosate-resistant weeds present
Linuron	linuron	7	15+" tall, directed spray only, not a foliar application	see product label for post-emergent weed spectrum
Lontrel XC	clopyralid	4	VE - V6	Canada thistle, common ragweed, volunteer alfalfa, alsike clover, vetch, scentless chamomile, common groundsel, wild buckwheat, and more
MCPA	MCPA amine, ester or Na salt	4	up to 6 - 7" tall as foliar application (roughly V2 - V3)	see product label for post-emergent weed spectrum
MCPB/MCPA		4	18" tall to the start of VT, using drop nozzles	see product label for post-emergent weed spectrum
Nicosulfuron	nicosulfuron	2	1 - 8 leaf stage, VE - V6	barnyard grass, green foxtail, yellow foxtail, witch grass, quackgrass, wild oats
Option 2.25 OD	foramsulfuron	2	1 - 8 leaf stage, VE - V6	barnyard grass, green foxtail, yellow foxtail, proso millet, common chickweed, lamb's quarters, wild mustard, wormseed mustard, eastern black nightshade, redroot pigweed, common ragweed
Permit WG	halosulfuron	2	1 - 10/12 leaf stage, VE - roughly V8	see product label for post-emergent weed spectrum
Shieldex	tolpyralate	27	VE - V6 or up to 50 cm tall, whichever is more restrictive	barnyard grass, green foxtail, yellow foxtail, green pigweed, cocklebur, lamb's quarters, redroot pigweed, smooth pigweed, purslane, common ragweed, giant weed, shepherd's purse, smartweed, waterhemp
Sortan IS	rimsulfuron	2	pre-emergent, post-emergent up to V3	see product label for pre-emergent and post-emergent weed spectrums
Steadfast IS	rimsulfuron + nicosulfuron	2	VE - V4	green foxtail, wild oats, volunteer wheat*, volunteer canola* (*not Clearfield varieties)
Topramezone	topramezone; must be applied as a tank mix	27	1 - 7 leaf stage, VE - V4	barnyard grass, green foxtail, yellow foxtail, common chickweed, kochia, lamb's quarters, smartweed, eastern black nightshade, green pigweed, redroot pigweed, common ragweed, velvetleaf, volunteer canola, wild mustard
Ultim	rimsulfuron + nicosulfuron	2	1 - 4 leaf stage, VE - V2	barnyard grass, green foxtail, yellow foxtail, quackgrass, volunteer cereals, wild oats, redroot pigweed, volunteer canola
Zidua	pyroxasulfone	15	pre-plant (up to 30 days), pre-emergent or post-emergent up to 4 leaf (V2)	barnyard grass, green foxtail, italian rygrass, wild oats, yellow foxtail, lamb's quarters, kochia, redroot pigweed, waterhemp