

QUICK HERBICIDE REFERENCE GUIDE 2024

This factsheet represents herbicides registered on flax and available as of April 2024. This list is prone to changes and it is recommended to always refer to [Manitoba's Guide to Field Crop Protection](#) and herbicide labels before in-field applications. Page numbers in the below tables are references to the Guide to Field Crop Protection.

*Important pages to note in the Guide to Field Crop Protection 2024:

Page 56, Table 8: Herbicide Mode of Action and Chemical Family for Resistant Weed Management

Page 62, Table 9: Mode of Action, Site of Uptake and Symptoms of Different Herbicide Groups

Page 63, Table 10: Herbicide-Resistant Weeds in Western Canada

Page 76, Table 11: Weed Control in Flax

Table 1: Fall-Applied Herbicides

Page	Herbicide	Active Ingredient	Group	Site of action	Chemical Family	Crop Staging/Timing	Weed Spectrum	
							Grassy Weeds	Broadleaf Weeds
217	Eptam Liquid EC	800 g/L EPTC	15	Very Long Chain Fatty Acid Inhibitor	Thiocarbamate	fall-applied or pre-seed incorporated	X	X
471	Express SG	50% tribenuron-methyl	2	ALS Enzyme Inhibitor	Sulfonylurea (SU)	fall-applied only, with glyphosate		X
469	Triallate + Trifluralin	10% triallate or	15	Miotic Inhibitor	Dinitroaniline (DNA)	fall-applied or pre-seed incorporated	X	X
		4% trifluralin	3	Very Long Chain Fatty Acid Inhibitor	Thiocarbamate			
477	Trifluralin	10% trifluralin or 480 - 500 g/L trifluralin	3	Miotic Inhibitor	Dinitroaniline (DNA)	fall-applied only	X	X



**Table 2: Pre-Seed Herbicides**

Page	Herbicide	Active Ingredient	Group	Site of action	Chemical Family	Crop Staging/Timing	Weed Spectrum	
							Grassy Weeds	Broadleaf Weeds
121	Authority 480	480 g/L sulfentrazone	14	PPO Inhibitor	Triazolinones	pre-seed or up to 3 days following seeding		X
123	Authority Strike	42 g/L carfentrazone-ethyl	14	PPO Inhibitor	Triazolinones	pre-seed or up to 3 days following seeding		X
		380 g/L sulfentrazone	14	PPO Inhibitor	Triazolinones			
163	Carfentrazone	240 g/L carfentrazone-ethyl	14	PPO Inhibitor	Triazolinones	pre-seed		X
217	Eptam Liquid EC	800 g/L EPTC	15	Very Long Chain Fatty Acid Inhibitor	Thiocarbamate	fall-applied or pre-seed incorporated	X	X
273	Glyphosate	360 - 540 g/L glyphosate	9	EPSP Synthase Inhibitor		pre-seed or pre-emergence	X	X
281	GoldWing	420 g/L MCPA Ester	4	Growth Regulator	Phenoxy acetic acids	pre-seed or up to 3 days following seeding		X
		13.5 g/L pyraflufen-ethyl	14	PPO Inhibitor	Phenylpyrazole			
385	Prospect	27.97 g/L carfentrazone-ethyl	4	Growth Regulator	Pyridine carboxylic acid	pre-seed	X (BYG only)	X
		15 g/L halauxifen	14	PPO Inhibitor	Triazolinones			
465	Triallate	10% triallate or 480 g/L triallate	15	Very Long Chain Fatty Acid Inhibitor	Thiocarbamate	pre-seed	X (WO only)	

Table 3: Pre-Emergent Herbicides

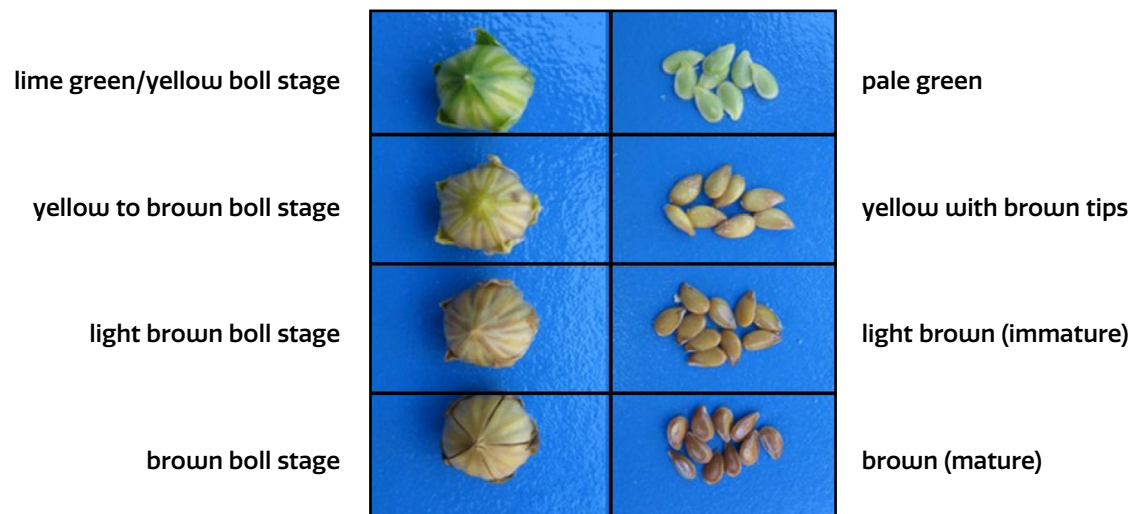
Page	Herbicide	Active Ingredient	Group	Site of action	Chemical Family	Crop Staging/Timing	Weed Spectrum	
							Grassy Weeds	Broadleaf Weeds
121	Authority 480	480 g/L sulfentrazone	14	PPO Inhibitor	Triazolinones	pre-seed or up to 3 days following seeding		X
123	Authority Strike	42 g/L carfentrazone-ethyl	14	PPO Inhibitor	Triazolinones	pre-seed or up to 3 days following seeding		X
		380 g/L sulfentrazone	14	PPO Inhibitor	Triazolinones			
273	Glyphosate	360 - 540 g/L glyphosate	9	EPSP Synthase Inhibitor		pre-seed or pre-emergence	X	X
281	GoldWing	420 g/L MCPA Ester	4	Growth Regulator	Phenoxy acetic acids	pre-seed or up to 3 days following seeding		X
		13.5 g/L pyraflufen-ethyl	14	PPO Inhibitor	Phenylpyrazole			

Table 4: Post-Emergent Herbicides

Page	Herbicide	Active Ingredient	Group	Site of action	Chemical Family	Crop Staging/Timing	Weed Spectrum	
							Grassy Weeds	Broadleaf Weeds
452	Armezon	336 g/L topramezone	27	HPPD Inhibition	Pyrazolones	2 to 4 inches (5-10 cm) in height	X	X
138	Bentazon	480 g/L bentazon	6	Photosystem II Inhibitor	Benzothiadiazinones	2 inches (5 cm) in height		X
149	Bromoxynil	240 - 480 g/L bromoxynil	6	Photosystem II Inhibitor	Nitriles	2 to 4 inches (5 to 10 cm) in height		X
155	Bromoxynil/MCPA	225 - 280 g/L MCPA Ester	4	Growth Regulator	Phenoxy acetic acids	best crop tolerance when applied between 2 to 4 inches (5 to 10 cm), but can be applied up to early bud stage		X
		225 - 280 g/L bromoxynil	6	Photosystem II Inhibitor	Nitriles			
174	Clethodim	240 - 360 g/L clethodim	1	ACC-ase Inhibitor	Cyclohexanedione (Dim)	may be applied at any growth stage, but recommended to apply prior to bud development - check preharvest intervals	X	
183	Clopyralid	360 - 600 g/L clopyralid	4	Growth Regulator	Pyridine-carboxylate	2 to 4 inches (5 to 10 cm) in height		X
188	Clopyralid/MCPA	50 g/L clopyralid	4	Growth Regulator	Pyridine-carboxylate	2 to 6 inches (5 to 15 cm) in height		X
		280 g/L MCPA	4	Growth Regulator	Phenoxy acetic acids			
331	MCPA	MCPA - various formulations	4	Growth Regulator	Phenoxy acetic acids	best crop tolerance when applied between 2 to 4 inches (5 to 10 cm), but can be applied up to pre-bud stage		X
377	Poast Ultra	450 g/L sethoxydim	1	ACC-ase Inhibitor	Cyclohexanedione (Dim)	may be applied at any growth stage, but recommended to apply prior to bud development - check preharvest intervals	X	
389	Quizalofop	96 g/L quizalofop	1	ACC-ase Inhibitor	Aryloxyphenoxy propionic acid (Fop)	may be applied at any growth stage, but recommended to apply prior to bud development - check preharvest intervals	X	
415	Select Plus	240 g/L clethodim	1	ACC-ase Inhibitor	Cyclohexanedione (Dim)	may be applied at any growth stage, but recommended to apply prior to bud development - check preharvest intervals	X	
		120 g/L quizalofop	1	ACC-ase Inhibitor	Aryloxyphenoxy propionic acid (Fop)			

Table 5: Dessicant Herbicides

Page	Herbicide	Active Ingredient	Group	Site of action	Chemical Family	Crop Staging/Timing	Weed Spectrum	
							Grassy Weeds	Broadleaf Weeds
207	Diquat	200 - 240 g/L diquat	22	Photosystem I Inhibitor		75% of bolls brown		
273	Glyphosate	360 - 540 g/L glyphosate	9	EPSP Synthase Inhibitor		75 - 80% of bolls brown	X	X
286	Heat Brands	70% saflufenacil (WG) or 342 g/L (LQ) saflufenacil	14	PPO Inhibitor	Pyrimidinedione	75% of bolls have turned colour		X

Figure 1: Brown-seeded flax boll and seed colour changes with increased maturity. *Credit: SaskFlax.*

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