

QUICK HERBICIDE REFERENCE GUIDE 2025

This factsheet represents herbicides registered on flax and available as of April 2025. 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 2025:

Page 60, Table 8: [Herbicide Mode of Action and Chemical Family for Resistant Weed Management](#)

Page 66, Table 9: [Mode of Action, Site of Uptake and Symptoms of Different Herbicide Groups](#)

Page 69, Table 10: [Herbicide-Resistant Weeds in Western Canada](#)

Page 81, 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
223	Eptam Liquid EC	800 g/L EPTC	15	Very Long Chain Fatty Acid Inhibitor	Thiocarbamate	fall-applied or pre-seed incorporated	X	X
490	Express SG	50% tribenuron-methyl	2	ALS Enzyme Inhibitor	Sulfonylurea (SU)	fall-applied only, with glyphosate		X
487	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			
495	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
449	Authority 480	480 g/L sulfentrazone	14	PPO Inhibitor	Triazolinones	pre-seed or up to 3 days following seeding		X
126	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			
167	Carfentrazone	240 g/L carfentrazone-ethyl	14	PPO Inhibitor	Triazolinones	pre-seed		X
223	Eptam Liquid EC	800 g/L EPTC	15	Very Long Chain Fatty Acid Inhibitor	Thiocarbamate	fall-applied or pre-seed incorporated	X	X
281	Glyphosate	360 - 540 g/L glyphosate	9	EPSP Synthase Inhibitor		pre-seed or pre-emergence	X	X
289	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			
396	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			
484	Triallate	10% triallate or 480 g/L triallate	15	Very Long Chain Fatty Acid Inhibitor	Thiocarbamate	pre-seed	X (WO only)	
487	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			

Table 3: Pre-Emergent Herbicides

Page	Herbicide	Active Ingredient	Group	Site of action	Chemical Family	Crop Staging/Timing	Weed Spectrum	
							Grassy Weeds	Broadleaf Weeds
449	Authority 480	480 g/L sulfentrazone	14	PPO Inhibitor	Triazolinones	pre-seed or up to 3 days following seeding		X
126	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			
281	Glyphosate	360 - 540 g/L glyphosate	9	EPSP Synthase Inhibitor		pre-seed or pre-emergence	X	X
289	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			

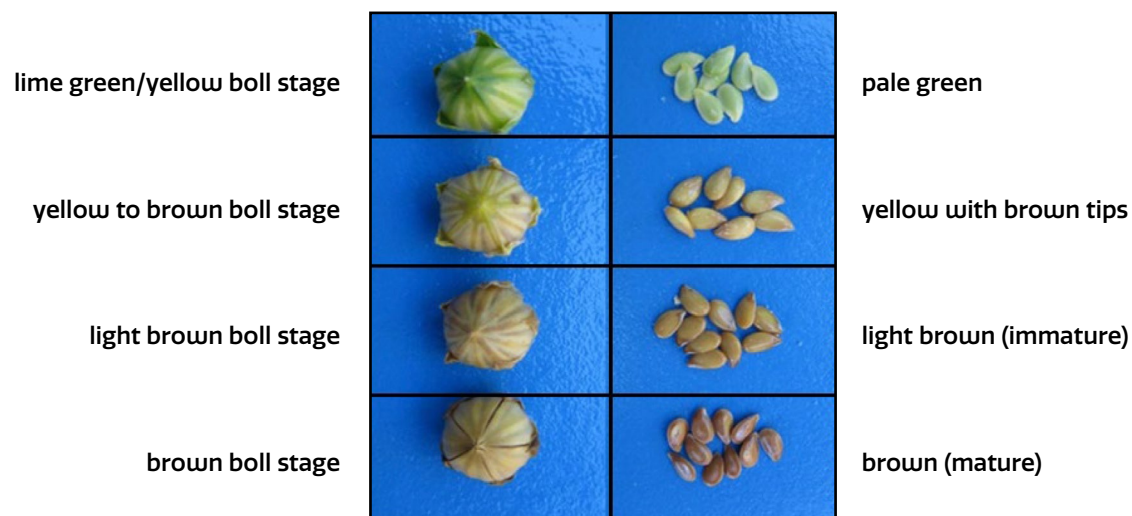
Table 4: Post-Emergent Herbicides

Page	Herbicide	Active Ingredient	Group	Site of action	Chemical Family	Crop Staging/Timing	Weed Spectrum	
							Grassy Weeds	Broadleaf Weeds
470	Armezon	336 g/L topramezone	27	HPPD Inhibition	Pyrazolones	2 to 4 inches (5-10 cm) in height	X	X
141	Bentazon	480 g/L bentazon	6	Photosystem II Inhibitor	Benzothiadiazinones	2 inches (5 cm) in height		X
152	Bromoxynil	240 – 480 g/L bromoxynil	6	Photosystem II Inhibitor	Nitriles	2 to 4 inches (5 to 10 cm) in height		X
159	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			
178	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	
188	Clopyralid	360 – 600 g/L clopyralid	4	Growth Regulator	Pyridine-carboxylate	2 to 4 inches (5 to 10 cm) in height		X
193	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			
340	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
388	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	
401	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	
427	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
211	Diquat	200 – 240 g/L diquat	22	Photosystem I Inhibitor		75% of bolls brown		
281	Glyphosate	360 – 540 g/L glyphosate	9	EPSP Synthase Inhibitor		75 – 80% of bolls brown	X	X
293	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: SaskOilseeds.***CONNECT WITH US**

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