



## Pre-Seed and Pre-Emergent Herbicide Options for Pulse Crops

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Herbicide*	Herbicide Group	Application Timing**	Primary Target	Recropping (year after)	Peas	Lentils	Faba Beans	Chickpeas	Soybeans	Dry Beans
2,4-D Ester	4	Seven days prior to seeding	Broadleaf weeds	None					X	
Aim® EC/ Foremost™/Revenge™ (carfentrazone)	14	Prior to seeding or up to 3 days after seeding prior to emergence (Aim® EC only)	Broadleaf weeds	None	X	X	X	X	X	X
Authority Strike™ (carfentrazone + sulfentrazone)	14	Prior to seeding or up to 3 days after seeding prior to emergence	Broadleaf weeds	Crop restrictions on label	X		X	X	X	
Authority® 480 (sulfentrazone)	14	Prior to seeding or up to 3 days after seeding prior to emergence	Broadleaf weeds	Crop restrictions on label	X		X	X	X	
Authority® Supreme (pyoxasulfone + sulfentrazone)	14 + 15	Prior to seeding or up to 3 days after seeding prior to emergence	Broadleaf and grassy weeds	Crop restrictions on label	X			X	X	
Avadex® MicroActiv (triallate)	15	Spring or fall (refer to product label for specific crop instructions)	Wild oats	Crop restrictions on label	X	X		X		
Avadex® Liquid EC (triallate)	15	Prior to seeding	Wild oats	Crop restrictions on label	X					
Beloukha® (pelargonic acid)	26	Prior to seeding or up to 3 days after seeding prior to emergence	Broadleaf and grassy weeds	None	X	X	X	X	X	X
Bifecta® EZ (flumioxazin + metribuzin)	5 + 14	Fall, prior to seeding, or up to 3 days after seeding prior to emergence	Broadleaf and grassy weeds	None	X	X			X	
BlackHawk® (2,4-D + pyraflufen-ethyl)	4 + 14	Prior to seeding or prior to emergence	Broadleaf weeds	None					X	
Bonanza®/Treflan®/Rival®	3	Fall or prior to seeding	Broadleaf	Crop	X	X	X		X	X

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(trifluralin)		(fall only lentil, refer to label for specific crop instructions)	and grassy weeds	restrictions on label						
<b>Buzzin® 70 WDG/ Meteor™/Meter 75 DF/ Metrix® SC/ Sencor® 75 DF/ Sencor® Solupak 75 DF/Squadron® II/TriCor® 75 DF/TriCor® LQ (metribuzin)</b>	5	Prior to seeding	Broadleaf weeds	Crop restrictions on label	X	X	X		X	
<b>Command® 360 ME</b>	13	After seeding, prior to crop emergence	Broadleaf weeds	Crop restrictions on label						X
<b>Dual II Magnum®/Komodo™/ Stallion™ (s-metolachlor)</b>	15	Prior to seeding	Broadleaf and grassy weeds	None					X	X
<b>Edge® MicroActiv (ethalfluralin)</b>	3	Fall or prior to seeding (refer to label for specific crop instructions)	Broadleaf and grassy weeds	Crop restrictions on label	X	X	X	X	X	X
<b>Engenia®/Xtendimax® (dicamba)</b>	4 + 9	Prior to seeding or prior to emergence (Roundup Ready 2 Xtend® soybeans only)	Broadleaf and grassy weeds	Crop restrictions on label					X	
<b>Eptam® Liquid EC (EPTC)</b>	15	Prior to seeding	Broadleaf and grassy weeds	None						X
<b>Express® SG*/Involve® 50 WDG (tribenuron)</b>	2	Fall or minimum 24 hours prior to seeding (refer to label for specific crop instructions)	Broadleaf weeds	None	X		X		X	X
<b>Fierce®/Fierce® EZ (flumioxazin + pyroxasulfone)</b>	14 + 15	Fall, prior to seeding, or up to 3 days after seeding prior to emergence (refer to label for specific crop instructions)	Broadleaf and grassy weeds	Crop restrictions on label	X	X		X	X	
<b>Focus® (carfentrazone + pyroxasulfone)</b>	14 + 15	Fall, prior to seeding, or up to 3 days after seeding prior to emergence (refer to label for specific crop instructions)	Broadleaf and grassy weeds	Crop restrictions on label	X	X			X	
<b>Frontier Max® (dimethanamid-P)</b>	15	Prior to seeding or prior to emergence	Grassy weeds	None						X
<b>glyphosate</b>	9	Prior to seeding or prior to emergence	Broadleaf and grassy weeds	None	X	X	X	X	X	X
<b>GoldWing® (MCPA Ester + pyraflufen-ethyl)</b>	4 + 14	Prior to seeding or up to 3 days after	Broadleaf weeds	None	X	X	X	X		X

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		seeding prior to emergence								
<b>Heat® (saflufenacil)</b>	14	Prior to seeding or prior to emergence	Broadleaf weeds	None	X	X	X	X	X	
<b>Heat® Complete (pyroxasulfone + saflufenacil)</b>	14 + 15	Prior to seeding or prior to emergence	Broadleaf and grassy weeds	None	X	X		X	X	
<b>Bifecta® EZ (flumioxazin + metribuzin)</b>	5 + 14	Fall, prior to seeding, or up to 3 days after seeding prior to emergence	Broadleaf and grassy weeds	None	X	X			X	
<b>Permit® (halosulfuron)</b>	2	After seeding prior to soil cracking	Broadleaf weeds	Crop restrictions on label						X
<b>Prospect™ (carfentrazone + halauxifen)</b>	4 + 14	Minimum 7 days prior to seeding (*minimum seeding depth of 4 cm/1.6 inches or injury may occur)	Broadleaf weeds	Crop restrictions on label	X				X	
<b>Roundup Xtend™ (dicamba + glyphosate)</b>	4 + 9	Prior to seeding or prior to emergence (Roundup Ready 2 Xtend® soybeans only)	Broadleaf and grassy weeds	Crop restrictions on label					X	
<b>Tough 600 EC® (pyridate)</b>	6	Prior to seeding or prior to emergence	Broadleaf weeds	None	X			X	X	
<b>Valtera™/Valtera™ EZ (flumioxazin)</b>	14	Fall, prior to seeding, or up to 3 days after seeding prior to emergence (refer to label for specific crop instructions)	Broadleaf weeds	None	X	X		X	X	
<b>Voraxor® Complete (pyroxasulfone + saflufenacil + trifludimoxazin)</b>	14 + 15	Prior to seeding or prior to emergence	Broadleaf and grassy weeds	Crop restrictions on label	X	X	X	X	X	
<b>Voraxor™ (saflufenacil + trifludimoxazin)</b>	14	Prior to seeding or prior to emergence	Broadleaf weeds	Crop restrictions on label	X	X	X	X	X	
<b>Zidua® SC (pyroxasulfone)</b>	15	Prior to seeding or prior to emergence	Broadleaf and grassy weeds	None	X	X	X	X	X	

\*Refer to the product label or consult with the chemical manufacturer for tank mix options.

\*\*There may be restrictions on the label for rates, application timing, varieties, or soil types. Consult the label or manufacturer for more details, and always read and follow the label directions. Applications of some of these products when the ground is cracking or crops are beginning to emerge can lead to severe crop injury. This information is only a guide; if label information differs, follow label instructions.

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