

POTATO

Herbicide	Product/A (ai/A)	Weeds	When to Apply	Remarks and Paragraphs
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Refer to page 6 for Fall or Spring Early Preplant Herbicides.

Soil-Applied Herbicides

Eptam (EPTC ⁸)	3.5 to 9 pt EC 15 to 30 lb 20G (3 to 6 lb)	Grass and some broadleaf weeds.	PPI, Dragoff, or Directed spray at layby.	Incorporate immediately after application at 4 to 6 inches deep. Poor wild mustard control. Adjust rate for soil type. Allow a 45 day PHI. May be applied with metribuzin at 0.33 to 0.67 lb DF/A. A1-2 B1 F2 S3	
	5.25 to 7 pt EC 22.5 to 30 lb 20G (4.5 to 6 lb)		Fall: Incorporate after October 15 until freeze-up.		
Treflan / generic trifluralin ³	1 to 2 pt EC 0.8 to 1.7 lb 60DF (0.5 to 1 lb)	Grass and some broadleaf weeds.	Postplant incorporate (PoPI).	Adjust rates for soil type. Poor wild oat and no wild mustard control. Incorporate above the seed piece after planting or immediately following drag-off or hilling but before potato and weed emergence. Sonalan labeled only west of Hwy 281.	
Sonalan (ethalfluralin ³)	1.33 to 2.67 pt (0.5 to 1 lb)		PRE or EPOST. Potato: Before 6 inches tall.		Incorporation improves consistency of weed control.
Prowl Prowl H2O (pendimethalin ³)	1.75 to 3.6pt 3.3EC 1.57 to 3 pt 3.8ACS (0.72 to 1.5 lb)		PRE. PHI: 40 days.		
Outlook / generic dimethenamid ¹⁵	16 to 21 fl oz (0.75 to 1 lb)		PPI or PRE. PHI: 40 days		Commercial mixture with metribuzin available as Boundary. A1-2 B1 B7 E5 E11 S3 X1 Y1 Pages: 106-107, 108-109, 112-113
Dual / generic S/metolachlor ¹⁵	1 to 2 pt (1 to 2 lb)		PRE to potato. Small grass and broadleaf weeds.		
Lorox / generic linuron ⁷ 	1.5 to 4 lb DF 1.5 to 4 pt L (0.75 to 2 lb)	Annual broadleaf weeds and grass suppression.	PRE to potato. Weeds: Up to 1 inch tall. PHI: 60 days.	Only for russet type or white skinned varieties that are not early maturing. Do not use on early maturing, smooth skinned white or red-skinned varieties or Atlantic, Shepody, Chipbelle, Bellchip, or Centennial varieties. Soil residue may injure crops the following year. E6 N1-2 N4 Y1 Y4 Y11	
Metribuzin ⁵	0.33 to 1.33 lb DF 0.5 to 2 pt 4F (0.25 to 1 lb)	Annual broadleaf weed control.	PRE to potato.	Apply after planting and before potato emergence or after drag-off. Do not incorporate. Adjust rate according to soil type. Commercial mixture with metolachlor available as Boundary. E6 N1-3 Y1 Y4 Y11 Pages: 108-109, 112-113	
	0.33 to 0.67 lb DF 0.5 to 1 pt 4F (0.25 to 0.5 lb)		POST. Weeds: Up to 1 inch tall. PHI: 60 days.	Apply after planting and before potato emergence. Seed piece must be planted at least 2 inches deep. Refer to label for use instructions. A1-2 E13 S1 S6-11	
Chateau (flumioxazin ¹⁴)	1.5 oz (0.77 oz)	Annual broadleaf weed control.	PRE to potato.	Apply after planting and before potato emergence. Use is restricted to east of Hwy 281. Do not apply PPI or POST to potato. Refer to label for other restrictions. A1-2 N3 S6-11 Y10	
Reflex (fomesafen ¹⁴)	0.75 pt (0.188 lb)		PHI for Reflex: 70 days.		

Pages 106-107 = Herbicide resistance, Pages 108-109 = Generic and commercial names, Pages 112-113 = Crop rotation restrictions.

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Matrix / generic rimsulfuron ²	1 to 1.5 oz DF (0.25 to 0.375 oz)	Annual grass and broadleaf weeds and quackgrass. Suppression of lambsquarters and Canada thistle.	PRE to potato and weeds. After hilling or drag-off but before potato emerge. POST. Potato: Up to 14 inches tall. Annual weeds: Small.	Requires 1 inch water after application for activation. May be applied with Dual, Eptam, metribuzin, and Prowl/H2O. Can be applied in two sequential applications of 1 oz/A PRE followed by 1 oz/A POST. Apply to annual weeds less than 1 inch tall. Add oil adjuvant at 1 to 2 pt/A. Refer to label for application information and restrictions. A5-7 N1-3 X1 Y3 Y15
Matrix / generic rimsulfuron ² + Metribuzin ⁵	1 to 1.5 oz DF + 0.33 to 0.75 lb DF 0.5 to 1.12 pt 4F (0.25 to 0.375 oz + 0.25 to 0.56 lb) 1 to 1.5 oz DF + 0.25 to 0.67 lb DF 0.38 to 1 pt 4F (0.25 to 0.375 oz + 0.188 to 0.5 lb)	Annual grass and broadleaf weeds including kochia, lambsquarters, wild buckwheat and suppression of quackgrass.	PRE to potato and weeds. After hilling or drag-off but before potato emerge. POST. Potato: Up to 14 inches tall. Annual weeds: Small.	Refer to label for varietal restrictions. Injury may occur when metribuzin is applied POST to early maturing smooth-skinned white and all red-skinned potato varieties - use only the low rate of metribuzin and consider benefits of weed control vs risk of potato injury prior to application to "at risk" varieties. Allow a 60 day PHI. Use the low rate of metribuzin when applied PRE to coarse textured soil. A5-7 E6 N1-3 Y1 Y3-4 Y15 Pages: 106-107, 108-109, 112-113
Poast (sethoxydim ¹)	0.5 to 1.5 pt (0.1 to 0.3 lb)	Annual grasses.	POST. Potato: PHI PHI: 30 days.	Add oil adjuvant at 1% v/v but not less than 1.25 pt/A. Refer to label for tank-mix options. Refer to Remarks in the POST grass herbicide section under Soybean for methods to avoid antagonism and reduced grass control from broadleaf herbicides. A3 A5-6 E2 X1 Pages: 106-107, 108-109
Select Max 1EC Select 2EC Shadow 3EC (clethodim ¹)	9 to 16 fl oz 4 to 8 fl oz 2.66 to 5.33 (1 to 2 oz)	Annual grasses and quackgrass.	Grass weeds: Refer to soybean section on page 27.	May be tank-mixed with metribuzin. A3 A5-6 E2 X1 Pages: 106-107, 108-109

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POTATO VINE DESICCATION

Herbicide	Product/A (ai/A)	Weeds	When to Apply	Remarks and Paragraphs
Reglone / generic diquat ²²	1 to 2 pt (0.25 to 0.5 lb)	Desiccant.	PHI: Reglone = 7 days. Firestorm = 3 days Rely = 9 days. Aim = 7 days. Vida = 5 days.	Add oil adjuvant at 1 to 2 pt/A. Most active in hot, sunny conditions. Reglone/diquat at 2 pt/A can be applied to all potatoes varieties and seed potato. Sequential application may be made up to a total of 4 pt/A. Allow at least 5 days between applications. Paraquat use is for fresh market potatoes ONLY. Do not use paraquat on potatoes that will be stored or used as seed pieces. B11
Firestorm (paraquat ²²) RUP	0.7 to 1.35 pt 3SL (0.25 to 0.5 lb)			
Rely 280 (glufosinate ¹⁰)	21 fl oz (0.38 lb)			Do not apply to potato grown for seed pieces. Best results when applied at the beginning of natural potato vine senescence. Requires thorough coverage. Most active in hot, sunny conditions. Apply at > 20 gpa by ground and 5 to 10 gpa by air. Use higher spray volumes on dense potato vines. B9
Aim (carfentrazone ¹⁴)	3.2 to 5.9 fl oz EW (0.8 to 1.6 oz)			Add MSO at 1 qt/A. Use sequential applications and higher spray volumes on dense potato vines.
Vida (pyraflufen ¹⁴)	2 to 5.5 fl oz EC (0.05 to 0.14 oz)			Thorough coverage essential. Most active in hot, sunny conditions. B4
Sulfuric acid RUP	20 gal			Extremely corrosive.