


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 N1 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)		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 EC (0.5 to 1 lb)			
Prowl Prowl H2O (pendimethalin ³)	1.75 to 3.6pt 3.3EC 1.5 to 3 pt 3.8ACS (0.72 to 1.5 lb)		PRE or EPOST. Potato: Before 6 inches tall.	Incorporation improves consistency of weed control.
Outlook / generic dimethenamid ¹⁵	16 to 21 fl oz EC (0.75 to 1 lb)		PRE. PHI: 40 days.	Only one application allowed.
Dual/II/Magnum (S/metolachlor ¹⁵)	1 to 2 pt EC (1 to 2 lb)	PPI or PRE. PHI: 40 days	Commercial mixture with metribuzin available as Boundary. A1-2 B1 B7 E10 N1 S3 Y1 Y15	
Lorox Linex (linuron ⁷)	 1 to 3 lb DF (0.5 to 1.5 lb) 1.5 to 3 pt L (0.75 to 1.5 lb)	Annual grass and broadleaf weeds.	PRE to potato. Small grass and broadleaf weeds.	Seed piece must be planted at least 2 inches deep. Apply after drag-off or hilling. Use higher rates for fine-textured soils. Apply with NIS at 1 qt/100 gal water to emerged weeds. A1-2 N1
Metribuzin ⁵	0.33 to 1.33 lb DF 0.5 to 2 pt 4F (0.25 to 1 lb)	Annual broadleaf weeds and grass suppression.	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. A1-2 E6 N1 N3 Y1 Y4 Y11 Y15
	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.	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. A1-2 E6 N1 N3 Y1 Y4 Y11 Y15
Chateau (flumioxazin ¹⁴)	1.5 oz WDG (0.77 oz)	Annual broadleaf weed control.	PRE to potato.	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 E12 S1 S6-11
Reflex / generic fomesafen ¹⁴	0.75 pt EC (0.188 lb)		PHI for Reflex: 70 days.	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 E4 N4 S6-11 Y10 Y15

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Matrix / generic rimsulfuron ²	1 to 1.5 oz DF (0.25 to 0.375 oz)	Annual grass and small broadleaf weeds. Suppression of lambsquarters and Canada thistle.	PRE to potato and weeds. After hilling or drag-off.	Requires precipitation after application for soil activation. Apply with soil-applied herbicides or in PRE /POST sequential applications.
			POST. Potato: Up to 14 inches tall. Annual weeds: Small.	Apply with oil adjuvant at 1 to 2 pt/A. Refer to label for application information and restrictions. A3 A5-8 N1-2 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)	Annual grass and quackgrass suppression and small broadleaf weeds including kochia, lambsquarters, wild buckwheat.	PRE to potato and weeds. After hilling or drag-off but before potato emerge.	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. A3 A5-7 E6 N1-2 Y1 Y3-4 Y15
	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)		POST. Potato: Up to 14 inches tall. Annual weeds: Small.	
2,4-D LV4 ⁴ 2,4-D LV6 ⁴ (Use registered brands - See N5)	2.3 fl oz EC 1.6 fl oz EC (1.2 oz)	Broadleaf weeds suppression. Enhance and retain red color on skin.	Pre-bud - make sequential application 10 to 14 days later. PHI = 45 days.	Use on red potatoes grown for fresh market. Crop response may vary depending on variety, stress, and local conditions. Apply at 25 gpa by ground and 5 gpa aerially. Tank-mixtures with other pesticides and additives may increase risk of injury. A3 A6 N1 N5
Poast (sethoxydim ¹)	0.5 to 1.5 pt EC (0.1 to 0.3 lb)	Annual grasses.	POST. PHI: 30 days.	Add oil adjuvant at 1 gal/100 gal water but not less than 1.25 pt/A. Refer to label for tank-mix options.
Select Max 1EC Select 2EC Shadow 3EC (clethodim ¹)	9 to 16 fl oz EC 4 to 8 fl oz EC 2.66 to 5.33 EC (1 to 2 oz)	Annual grasses and quackgrass.	Grass weeds: Refer to soybean section on page 27.	Refer to Remarks in the POST grass herbicide section under Soybean for methods to avoid antagonism and reduced grass control from broadleaf herbicides. May be tank-mixed with metribuzin. A3 A5-6 E2 N1

POTATO VINE DESICCATION

Herbicide	Product/A (ai/A)	Weeds	When to Apply	Remarks and Paragraphs
Reglone / generic diquat ²² + NIS	1 to 2 pt SL+ 2 qt/100 gal water (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 + NIS (paraquat ²²) RUP	0.7 to 1.35 pt 3SL + 2 qt/100 gal water (0.25 to 0.5 lb)			
Rely 280 + AMS (glufosinate ¹⁰)	21 fl oz SL + 3 lb/A (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 SL			Extremely corrosive.