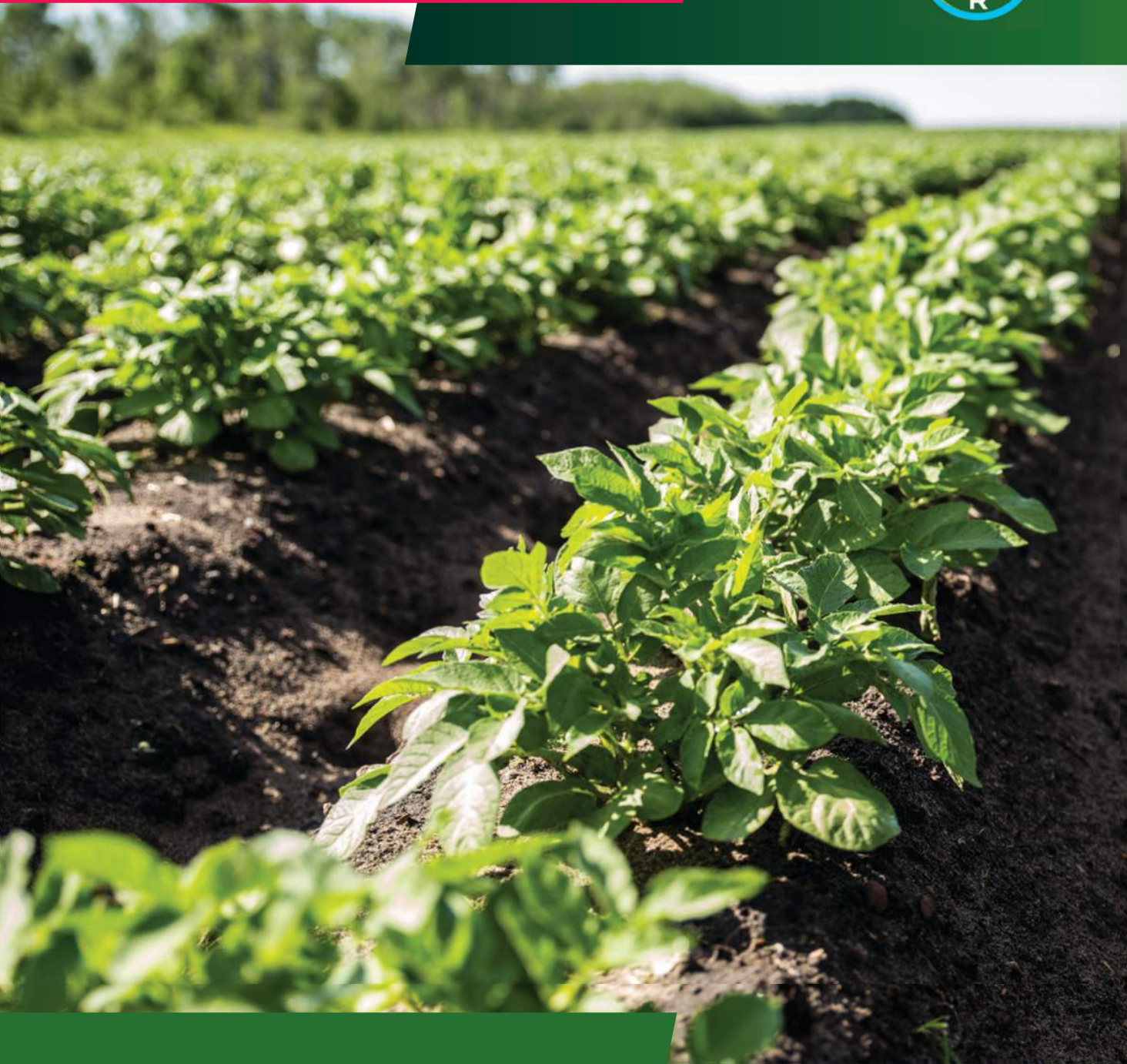


2024 Potato Crop Protection Guide



Discover, at a glance, which Bayer potato products are the right choice to help keep your plants healthy, your fields weed free and your yield at its best.

Western Canada



BAYER COMPLETE POTATO PORTFOLIO

	Product	Features and Benefits	Key Pests / Diseases Controlled	Use Rate	Chemical Class Group No.	Rainfast	REI (hours)	PHI (days)	
SEED-PIECE TREATMENTS	ADMIRE	- Systemic insecticide that provides economical and enduring control of damaging insects - Application flexibility – use Admire® insecticide as a seed-piece treatment or as a foliar spray**	Aphids, Colorado potato beetle, leafhoppers, potato flea beetle	26-39 mL/100 kg seed pieces (12-18 mL/cwt) Do not apply more than 1.165 L/ha (0.280 kg ai) per year	Group 4A (imidac)	N/A	N/A	N/A	
	EMESTO SILVER	- Excellent control of fusarium tuber rot (including current resistant strains) and seed-borne <i>Rhizoctonia solani</i> - Coloured formulation facilitates safe and uniform application while allowing visual confirmation of coverage - Liquid formulation allows for easy application and coverage	Fusarium tuber rot (including current resistant strains), seed-borne <i>Rhizoctonia solani</i> (black scurf, stem and stolon canker), silver scurf	20 mL/100 kg seed (9.1 mL/cwt)	Group 7 (penflufen), Group 3 (prothioconazole)	N/A	N/A	N/A	
	EMESTO COMPLETE	- Offers the same fungicide actives as Emesto® Silver, plus an insecticide, to protect against yield-robbing pests and diseases - Liquid formulation allows for easy application and coverage	Fusarium tuber rot (including current resistant strains), seed-borne <i>Rhizoctonia solani</i> (black scurf, stem and stolon canker), silver scurf Aphids, Colorado potato beetle, leafhoppers, potato flea beetle	Emesto PRO: 3.6 mL/100 kg seed pieces (1.6 mL/cwt) Emesto Quantum: 30 mL/100 kg seed pieces (13.6 mL/cwt)	Group 7 (penflufen) Group 3 (prothioconazole) Group 4 (c)	N/A	N/A	N/A	
BIOLOGICALS	MINUJET	- Protection against soil-borne diseases such as rhizoctonia root rot, black scurf and stem canker; phytophthora root rot, pink rot and pythium root rot - Excellent mixing and handling characteristics - Low use rate and concentrated packaging means less bulk and waste, making Minuet® an excellent fit with sustainability initiatives	Soil-borne <i>Rhizoctonia solani</i> (root rot, black scurf and stem canker)*; fusarium root rot*, phytophthora root rot* and pink rot*; pythium root rot*	0.5 to 2.8 L/ha (200 to 1,120 mL/ac.) Recommended rate of 379 mL/ac. in potatoes.	FRAC Group BM02 (<i>Bacillus subtilis</i> QST 713)	N/A	4	0	
	SERENADE OPTI	- Broad-spectrum, biological foliar fungicide that provides effective disease suppression - Provides anti-fungal and anti-bacterial activity; stimulates natural plant defence mechanisms - Unique mode of action (FRAC Group BM02) makes for the best defence against the development of resistance - Approved for organic use	Early blight*, white mould*, post-harvest application for silver scurf*	1.1 to 2.2 kg/ha (0.45 to 0.90 kg/ac.) Begin application soon after emergence and when conditions are conducive to disease development. Repeat as necessary on a 7 to 10 day interval. Maximum of 6 applications per year. When disease pressure is severe, use the shorter intervals.	FRAC Group BM02 (<i>Bacillus subtilis</i> QST 713)	Rainfast when dry	0	0	
HERBICIDE	sencor	- Broad-spectrum grass and broadleaf weed control - Can be applied pre-emergent or post-emergent - Superior crop safety - Utilizing Group 5 mode of action, it helps manage and prevent Group 2-resistant broadleaf weeds	Grass and broadleaf weeds	Refer to Sencor® label for pre-emergent or post-emergent rates for your region.	Group 5 (metribuzin)	6 hours	12	60	
FUNGICIDES	Luna TRANQUILITY	- Two modes of action protect your crops from black dot, brown spot, early blight and white mould	Alternaria complex: brown leaf spot, early blight Black dot*, white mould	600 mL/ha (243 mL/ac.) 800 mL/ha (324 mL/ac.)	Do not apply more than 3.2 L/ha (1.3 L/ac.) per season. Begin fungicide applications preventively. Continue as needed on a 7 to 14 day interval. When disease pressure is severe, use the shorter intervals.	Rainfast when dry	12	7	
	PROLINE GOLD	- Exceptional control of diseases such as early blight, brown leaf spot and white mould, as well as suppression of black dot	Alternaria complex: brown leaf spot, early blight, white mould, black dot*	750 mL/ha (304 mL/ac.)					Group 7 (fl Group 3 (prothioconazole)
	SCALA	- Superior early blight protection - Locally systemic activity to protect new growth	Early blight	0.75 L/ha (0.3 L/ac.) plus Bravo® ZN fungicide at registered rates. Repeat application at 7 to 14 day intervals, or as necessary to maintain disease control. When disease pressure is severe, use the shorter intervals. Maximum of 3 applications per year.	Group 9 (pyrimethanil)	2 hours	12	7	
FUNGICIDES/NEMATOCIDES	VELUM PRIME	- With a unique mode of action and Group for protection against nematodes, Velum® Prime nematocide helps increase your crop's yield potential - Black dot and early blight suppression	Root lesion nematodes*, potato cyst nematodes*, root knot nematodes*, black dot*, early blight*	500 mL/ha (202 mL/ac.) or 4.5 mL/100 m row (based on 90 cm/36 in. row spacing) Maximum 500 mL/ac. per year.	Group 7 (fl)	N/A	12	7	
	VELUM RISE	- Co-formulation of the Group 7 active ingredients fluopyram and penflufen delivers systemic and preventative protection against crop diseases and nematodes - Delivers excellent control of soil-borne diseases caused by <i>Rhizoctonia solani</i> as well as suppression of early blight and black dot	Soil-borne <i>Rhizoctonia solani</i> (black scurf, stem and stolon canker) Root lesion nematodes*, potato cyst nematodes (including pale cyst and golden nematode)*, root knot nematodes*, black dot*, early blight*	Regardless of formulation or method of application (soil or foliar), do not apply more than: - 500 g/ha (200 g/ac.) fluopyram per year - 160 g/ha (65 g/ac.) penflufen per year	Group 7 (fl Group 7 (penflufen)	N/A	12	7	
INSECTICIDES	ADMIRE	- Systemic insecticide that provides economical and enduring control of damaging insects - Application flexibility – use Admire insecticide as a seed-piece treatment or as a foliar spray**	Aphids, Colorado potato beetle, leafhoppers*	200 mL/ha (80 mL/ac.) Maximum 1 foliar application per crop season.** Do not apply during bloom.	Group 4A (imidac)	6	12	7	
	decis	- A powerful synthetic pyrethroid insecticide that works quickly on a broad range of insects at very low rates per acre	Aphids (potato and buckthorn), Colorado potato beetle, European corn borer, leafhoppers, potato flea beetle, tuber flea beetle, tarnished plant bug	Colorado potato beetle, leafhoppers, tarnished plant bug, potato flea beetle: 50 to 75 mL/ha (20 to 30 mL/ac.) in 200 to 500 L of water per ha Potato aphid, buckthorn aphid: 125 mL/ha (50 mL/ac.) in 300 to 400 L of water per ha Tuber flea beetle: 75 to 100 mL/ha (30 to 40 mL/ac.) in 600 L of water per ha European corn borer: 75 to 125 mL/ha (30 to 50 mL/ac.) in 300 to 500 L of water per ha Do not apply more than 250 mL product per ha (101 mL/ac.) per year by ground and 150 mL product per ha (61 mL/ac.) per year by air.	Group 3 (deltamethrin)	1	12	1	
	MOVENTO	- Travels up and down the entire plant to protect leaves, roots and new growth - Controls pests that products with only contact or translaminar activity often miss - Long residual control provides extremely effective activity on hard-to-control pests	Aphids, psyllids	220 to 365 mL/ha (89 to 148 mL/ac.) Maximum allowed per crop season: 730 mL/ha (296 mL/ac.) For high insect pressure, a follow-up application may be necessary 7 days after the initial application.	Group 23 (spirotetrama)	Rainfast when dry	12	7	
	SIVANTO prime	- A chemical sub-class, Group 4D, Sivanto® Prime combines proven Group 4 insecticide efficacy with a favourable safety profile for many beneficial insects - Provides quick knockdown and residual control of target pests	Aphids, leafhoppers Colorado potato beetle***	500 to 750 mL/ha (202 to 304 mL/ac.) 750 to 1,000 mL/ha (304 to 404 mL/ac.)	Maximum 2 applications per year. Do not apply more than 2,000 mL/ha (810 mL/ac.) per season.	Group 4D (flupyradifurone)	1 hour	12	7
	vayego	- Second-generation Group 28 diamide that combines excellent knockdown and control of key potato insects - Long-lasting residual control of Colorado potato beetles can mean fewer applications throughout the season	Colorado potato beetle, European corn borer, potato flea beetle, aphids*	150 mL/ha (60 mL/ac.) Minimum interval between applications is 10 days. Maximum 2 applications per season. Not to exceed 300 mL/ha (120 mL/ac.) per crop season. Do not apply during bloom.					

* Suppression only

** Do not make a foliar application of Admire following a soil or seed treatment application of a Group 4 insecticide. Do not apply during bloom.

*** Do not use Sivanto Prime as a foliar spray targeting Colorado potato beetle if a Group 4 insecticide was used as a seed treatment or at planting

RECOMMENDED APPLICATION TIMING

	Product	Pests	Seed Treatment	In-Furrow	Pre-Emerge	Early Development	Pre-Row Closure	Row Closure/ Tuber Initiation	Tuber Bulking	Harvest	Post Harvest
SEED-PIECE TREATMENTS	ADMIRE	- Aphids, Colorado potato beetle, leafhoppers, potato flea beetle									
	EMESTO SILVER	- Fusarium tuber rot (including current resistant strains) - Seed-borne <i>Rhizoctonia solani</i> (black scurf, stem and stolon canker) - Silver scurf									
	EMESTO COMPLETE	- Fusarium tuber rot (including current resistant strains) - Seed-borne <i>Rhizoctonia solani</i> (black scurf, stem and stolon canker) - Silver scurf - Aphids, Colorado potato beetle, leafhoppers, potato flea beetle									
BIOLOGICALS	MINUET	- Soil-borne <i>Rhizoctonia solani</i> (root rot, black scurf and stem canker)* - Fusarium root rot* - Phytophthora root rot and pink rot* - Pythium root rot*				*					
	SERENADE OPTI	- Early blight*, white mould* - Post-harvest application for silver scurf*									
HERBICIDE	sencor	- Grass and broadleaf weeds									
FUNGICIDES	Luna TRANQUILITY	- Alternaria complex: brown leaf spot, early blight - White mould, black dot*									
	PROLINE GOLD	- Alternaria complex: brown leaf spot, early blight - White mould - Black dot*									
	SCALA	- Early blight									
FUNGICIDES/NEMATOCIDES	VELUM PRIME	- Nematodes* - Black dot*, early blight*									
	VELUM RISE	- Soil-borne <i>Rhizoctonia solani</i> (black scurf, stem and stolon canker) - Nematodes* - Black dot*, early blight*									
INSECTICIDES	ADMIRE	- Aphids, Colorado potato beetle, leafhoppers, potato flea beetle									
	decis	- Aphids (potato and buckthorn), Colorado potato beetle, European corn borer, leafhoppers, potato flea beetle, tuber flea beetle, tarnished plant bug									
	MOVENTO	- Aphids, psyllids									
	SIVANTO prime	- Aphids, leafhoppers - Colorado potato beetle									
	vayego	- Colorado potato beetle - European corn borer, potato flea beetle, aphids*									

* Suppression only

SEED-PIECE TREATMENTS BIOLOGICALS HERBICIDE FUNGICIDES FUNGICIDES/NEMATOCIDES INSECTICIDES



For more information, visit cropsience.bayer.ca

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