



Discover, at a glance, which Bayer solutions are the right choice to help keep your plants healthy and maximize your yield potential.



Eastern
Canada

RECOMMENDED APPLICATION TIMING

	Product	Registration No.	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	24094	Aphids, Colorado potato beetle, leafhoppers, potato flea beetle	█								
	EMESTO SILVER	30361	Fusarium tuber rot (including current resistant strains) Seed-borne <i>Rhizoctonia solani</i> (black scurf, stem and stolon canker) Silver scurf	█								
	EMESTO COMPLETE	Emesto Quantum - 30362 Emesto PRO - 33593	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	█								
BIOLOGICAL FUNGICIDES	MINUET	33651	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	31666	Early blight*, white mould* Post-harvest application for silver scurf*				█	█	█	█	█	█
HERBICIDE	sencor	Sencor 480 F – 26280 Sencor 75 DF – 17242	Grass and broadleaf weeds			█						
FUNGICIDES	Luna TRANQUILITY	30510	Alternaria complex: brown leaf spot, early blight White mould, black dot* ¹				█	█	█	█		
	PROPULSE	33955	Alternaria complex: brown leaf spot, early blight White mould Black dot* ¹				█	█	█	█		
	SCALA	28011	Early blight				█	█	█	█		
FUNGICIDES/NEMATOCIDES	VELUM PRIME	32108	Nematodes* ¹ Black dot* ¹ , early blight*		█							
	VELUM RISE	34871	Soil-borne <i>Rhizoctonia solani</i> (black scurf, stem and stolon canker) Nematodes* ¹ Black dot* ¹ , early blight*, white mould*		█							
INSECTICIDES	ADMIRE	24094	Aphids, Colorado potato beetle, leafhoppers, potato flea beetle				█	█	█	█		
	decis	33700	Aphids (potato and buckthorn), Colorado potato beetle, European corn borer, leafhoppers, potato flea beetle, tuber flea beetle, tarnished plant bug				█	█	█	█		
	MOVENTO	28953	Aphids, psyllids							█		
	SIVANTO prime	31452	Aphids, leafhoppers Colorado potato beetle						█	█		
	vayego	33711	Colorado potato beetle European corn borer, potato flea beetle, aphids*				█	█	█	█		

¹ Black dot (*Colletotrichum coccodes*) and plant pathogenic nematodes are some of the causal agents of the potato early dying (PED) disease complex.
* Suppression only.

Product	Features and Benefit	Key Pests / Diseases Controlled	WAMLEGS Mixing Order	Maximum Applications per Crop Season	Use Rate	Chemical Class Group No.	Rainfast	REI (hours)	PHI (days)	
SEED-PIECE TREATMENTS	ADMIRE	<ul style="list-style-type: none"> 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	L	Do not apply more than 1.165 L/ha (470 mL/ac.) per year.	26 to 39 mL/100 kg seed pieces (12 to 18 mL/cwt)	Group 4A (imidac)	N/A	N/A	N/A
	EMESTO SILVER	<ul style="list-style-type: none"> 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	L	N/A	20 mL/100 kg seed (9.1 mL/cwt)	Group 7 (penflufen) Group 3 (prothioconazole)	N/A	N/A	N/A
	EMESTO COMPLETE	<ul style="list-style-type: none"> 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	L	N/A	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 3 (prothioconazole) Group 7 (penflufen) Group 4 (c)	N/A	N/A	N/A
BIOLOGICAL FUNGICIDES	MINUET	<ul style="list-style-type: none"> 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*	L	N/A	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	N/A	0
	SERENADE OPTI	<ul style="list-style-type: none"> 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*	W	N/A	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	<ul style="list-style-type: none"> 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	Sencor 480 F – L Sencor 75 DF – W	Refer to the Sencor label for maximum application rates for your region and soil type.	Refer to Sencor® label for pre-emergent or post-emergent rates for your region.	Group 5 (metribuzin)	6 hours	12	60
FUNGICIDES	Luna TRANQUILITY	<ul style="list-style-type: none"> Two modes of action protect your crops from black dot¹, brown spot, early blight and white mould 	<p>Alternaria complex: brown leaf spot, early blight</p> <hr/> <p>Black dot¹, white mould</p>	L	Maximum 3.2 L/ha (1.3 L/ac.) per season.	600 mL/ha (243 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.	Group 7 (fluopyram) Group 9 (pyrimethanil)	Rainfast when dry	12	7
	PROPULSE	<ul style="list-style-type: none"> Exceptional control of diseases such as early blight, brown leaf spot and white mould, as well as suppression of black dot¹ 	Alternaria complex: brown leaf spot, early blight, white mould, black dot ¹	L	Maximum of 2 applications per year. If using Velum Rise (or Velum Prime) at planting, then there is a maximum of 1 application of Propulse per year.	750 mL/ha (304 mL/ac.)	Group 7 (fluopyram) Group 3 (prothioconazole)	1 to 2 hours after application, when dry	12	14
	SCALA	<ul style="list-style-type: none"> Superior early blight protection Locally systemic activity to protect new growth 	Early blight	L	Maximum of 3 applications per year.	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.	Group 9 (pyrimethanil)	2 hours	12	7
FUNGICIDES/NEMATOCIDES	VELUM PRIME	<ul style="list-style-type: none"> With a unique mode of action and Group for protection against nematodes¹, Velum® Prime nematocide helps increase your crop's yield potential Black dot¹ and early blight suppression 	Root lesion nematodes*, potato cyst nematodes*, root knot nematodes ¹ , black dot ¹ , early blight*	L	1 application per year recommended. If using other products containing fluopyram there is a maximum of 500 g fluopyram/ha per year, regardless of formulation or method of application.	500 mL/ha (202 mL/ac.) or 4.5 mL/100 m row (based on 90 cm/36 in. row spacing)	Group 7 (fluopyram)	N/A	12	7
	VELUM RISE	<ul style="list-style-type: none"> Co-formulation of the Group 7 active ingredients fluopyram and penflufen delivers systemic preventative protection against crop diseases and nematodes¹ Delivers excellent control of soil-borne diseases caused by <i>Rhizoctonia solani</i> as well as suppression of early blight and black dot¹ 	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 ¹ , black dot ¹ , early blight*, white mould*	L	1 application per year recommended. Fluopyram: If using other products containing fluopyram there is a maximum of 500 g/ha (202 g/ac.) fluopyram/ha per year, regardless of formulation or method of application. Penflufen Do not apply more than 160 g/ha (65 g/ac.) penflufen per year, regardless of formulation or method of application (seed piece treatment or in-furrow).	1 L/ha (404 mL/ac.) or 9 mL/100 m row (based on 90 cm/36 in. row spacing) 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 (fluopyram) Group 7 (penflufen)	N/A	12	7
INSECTICIDES	ADMIRE	<ul style="list-style-type: none"> 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*	L	Maximum of one foliar application per crop per season.	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	<ul style="list-style-type: none"> 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	E	Colorado potato beetle, leafhoppers, tarnished plant bug, potato flea beetle: Maximum 3 applications Potato aphid, buckthorn aphid, tuber flea beetle: European corn borer: Maximum 2 applications 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.	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	<ul style="list-style-type: none"> 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	L	Maximum 1.83 L/ha (730 mL/ac.) per crop season.	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 (spirotetram)	Rainfast when dry	12	7
	SIVANTO prime	<ul style="list-style-type: none"> 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****	L	Maximum 2,000 mL/ha (810 mL/ac.) per crop season.	500 to 750 mL/ha (202 to 304 mL/ac.) Maximum 2 applications per year. Do not apply more than 2,000 mL/ha (810 mL/ac.) per season. 750 to 1,000 mL/ha (304 to 404 mL/ac.)	Group 4D (flupyradifurone)	1 hour	12	7
vayego	<ul style="list-style-type: none"> 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*	L	Maximum 2 applications per season. Minimal interval between applications is 10 days. Not to exceed 300 mL/ha (120 mL/ac.) per crop season.	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.	Group 28 (tetraniliprole)	1 hour	12	14	

¹ Black dot (*Colletotrichum coccodes*) and plant pathogenic nematodes are some of the causal agents of the potato early dying (PED) disease complex.

* 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.

*** To limit the potential for development of disease resistance to these fungicide classes, do not make more than two sequential applications of Luna Tranquility or any Group 7 or Group 9 fungicide before rotating with a fungicide from a different Group.

**** 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.

NOTES



For more information, visit cropscience.bayer.ca

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