



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



Western  
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	<b>ADMIRE</b>	24094	Aphids, Colorado potato beetle, leafhoppers, potato flea beetle	█								
	<b>EMESTO SILVER</b>	30361	Fusarium tuber rot (including current resistant strains) Seed-borne <i>Rhizoctonia solani</i> (black scurf, stem and stolon canker) Silver scurf	█								
	<b>EMESTO COMPLETE</b>	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	<b>MINUJET</b>	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*		█							
	<b>SERENADE OPTI</b>	31666	Early blight*, white mould* Post-harvest application for silver scurf*				█	█	█	█	█	█
HERBICIDE	<b>sencor</b>	Sencor 480 F – 26280 Sencor 75 DF – 17242	Grass and broadleaf weeds			█	█	█				
FUNGICIDES	<b>Luna TRANQUILITY</b>	30510	Alternaria complex: brown leaf spot, early blight White mould, black dot* <sup>1</sup>				█	█	█	█		
	<b>PROLINE GOLD</b>	30511	Alternaria complex: brown leaf spot, early blight White mould Black dot* <sup>1</sup>				█	█	█	█		
	<b>SCALA</b>	28011	Early blight				█	█	█	█		
FUNGICIDES/NEMATOCIDES	<b>VELUM PRIME</b>	32108	Nematodes* <sup>1</sup> Black dot* <sup>1</sup> , early blight*		█							
	<b>VELUM RISE</b>	34871	Soil-borne <i>Rhizoctonia solani</i> (black scurf, stem and stolon canker) Nematodes* <sup>1</sup> Black dot* <sup>1</sup> , early blight*, white mould*		█							
INSECTICIDES	<b>ADMIRE</b>	24094	Aphids, Colorado potato beetle, leafhoppers, potato flea beetle				█	█	█	█		
	<b>decis</b>	33700	Aphids (potato and buckthorn), Colorado potato beetle, European corn borer, leafhoppers, potato flea beetle, tuber flea beetle, tarnished plant bug				█	█	█	█		
	<b>MOVENTO</b>	28953	Aphids, psyllids							█		
	<b>SIVANTO prime</b>	31452	Aphids, leafhoppers Colorado potato beetle						█	█		
	<b>vayego</b>	33711	Colorado potato beetle European corn borer, potato flea beetle, aphids*				█	█	█	█		

<sup>1</sup> 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	<b>ADMIRE</b>	<ul style="list-style-type: none"> <li>Systemic insecticide that provides economical and enduring control of damaging insects</li> <li>Application flexibility – use Admire® insecticide as a seed-piece treatment or as a foliar spray**</li> </ul>	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
	<b>EMESTO SILVER</b>	<ul style="list-style-type: none"> <li>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</li> <li>Liquid formulation allows for easy application and coverage</li> </ul>	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
	<b>EMESTO COMPLETE</b>	<ul style="list-style-type: none"> <li>Offers the same fungicide actives as Emesto® Silver, plus an insecticide, to protect against yield-robbing pests and diseases</li> <li>Liquid formulation allows for easy application and coverage</li> </ul>	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	<b>MINUET</b>	<ul style="list-style-type: none"> <li>Protection against soil-borne diseases such as rhizoctonia root rot, black scurf and stem canker; phytophthora root rot, pink rot and pythium root rot</li> <li>Excellent mixing and handling characteristics</li> <li>Low use rate and concentrated packaging means less bulk and waste, making Minuet® an excellent fit with sustainability initiatives</li> </ul>	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
	<b>SERENADE OPTI</b>	<ul style="list-style-type: none"> <li>Broad-spectrum, biological foliar fungicide that provides effective disease suppression</li> <li>Provides anti-fungal and anti-bacterial activity; stimulates natural plant defence mechanisms</li> <li>Unique mode of action (FRAC Group BM02) makes for the best defence against the development of resistance</li> <li>Approved for organic use</li> </ul>	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	<b>sencor</b>	<ul style="list-style-type: none"> <li>Broad-spectrum grass and broadleaf weed control</li> <li>Can be applied pre-emergent or post-emergent</li> <li>Superior crop safety</li> <li>Utilizing Group 5 mode of action, it helps manage and prevent Group 2-resistant broadleaf weeds</li> </ul>	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	<b>Luna TRANQUILITY</b>	<ul style="list-style-type: none"> <li>Two modes of action protect your crops from black dot<sup>1</sup>, brown spot, early blight and white mould</li> </ul>	<p>Alternaria complex: brown leaf spot, early blight</p> <p>Black dot<sup>1</sup>, 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. 800 mL/ha (324 mL/ac.)	Group 7 (fluopyram) Group 9 (pyrimethanil)	Rainfast when dry	12	7
	<b>PROLINE GOLD</b>	<ul style="list-style-type: none"> <li>Exceptional control of diseases such as early blight, brown leaf spot and white mould, as well as suppression of black dot<sup>1</sup></li> </ul>	Alternaria complex: brown leaf spot, early blight, white mould, black dot <sup>1</sup>	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 Proline GOLD per year.	750 mL/ha (304 mL/ac.)	Group 7 (fluopyram) Group 3 (prothioconazole)	1 to 2 hours after application, when dry	12	14
	<b>SCALA</b>	<ul style="list-style-type: none"> <li>Superior early blight protection</li> <li>Locally systemic activity to protect new growth</li> </ul>	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	<b>VELUM PRIME</b>	<ul style="list-style-type: none"> <li>With a unique mode of action and Group for protection against nematodes<sup>1</sup>, Velum® Prime nematocide helps increase your crop's yield potential</li> <li>Black dot<sup>1</sup> and early blight suppression</li> </ul>	Root lesion nematodes*, potato cyst nematodes*, root knot nematodes*, black dot <sup>1</sup> , 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
	<b>VELUM RISE</b>	<ul style="list-style-type: none"> <li>Co-formulation of the Group 7 active ingredients fluopyram and penflufen delivers systemic preventative protection against crop diseases and nematodes<sup>1</sup></li> <li>Delivers excellent control of soil-borne diseases caused by <i>Rhizoctonia solani</i> as well as suppression of early blight and black dot<sup>1</sup></li> </ul>	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 <sup>1</sup> , 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	<b>ADMIRE</b>	<ul style="list-style-type: none"> <li>Systemic insecticide that provides economical and enduring control of damaging insects</li> <li>Application flexibility – use Admire insecticide as a seed-piece treatment or as a foliar spray**</li> </ul>	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
	<b>decis</b>	<ul style="list-style-type: none"> <li>A powerful synthetic pyrethroid insecticide that works quickly on a broad range of insects at very low rates per acre</li> </ul>	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
	<b>MOVENTO</b>	<ul style="list-style-type: none"> <li>Travels up and down the entire plant to protect leaves, roots and new growth</li> <li>Controls pests that products with only contact or translaminar activity often miss</li> <li>Long residual control provides extremely effective activity on hard-to-control pests</li> </ul>	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
	<b>SIVANTO prime</b>	<ul style="list-style-type: none"> <li>A chemical sub-class, Group 4D, Sivanto® Prime combines proven Group 4 insecticide efficacy with a favourable safety profile for many beneficial insects</li> <li>Provides quick knockdown and residual control of target pests</li> </ul>	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
<b>vayego</b>	<ul style="list-style-type: none"> <li>Second-generation Group 28 diamide that combines excellent knockdown and control of key potato insects</li> <li>Long-lasting residual control of Colorado potato beetles can mean fewer applications throughout the season</li> </ul>	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 (tetranilprole)	1 hour	12	14	

<sup>1</sup> 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 [cropsience.bayer.ca](https://cropsience.bayer.ca)

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