

# Onion Crop Protection Guide



Bayer provides solutions to help you grow high-quality onions, increase yield potential and continuously improve the marketability of your crop.



Product	Features and Benefits	Key Pests / Diseases Controlled	WAMLEGS Mixing Order	Maximum Applications per Crop Season	Use Rate & Application Tips	Chemical Class Group No.	Rainfast (hours)	REI (hours)	PHI (days)	
HERBICIDES	<b>PARDNER</b>	<ul style="list-style-type: none"> <li>Controls 28 broadleaf weeds</li> <li>An excellent tool to help manage resistance</li> </ul>	Common grousel (seedlings up to 4-leaf stage)	E	Maximum 2 applications <sup>1</sup>	0.5 L/ha (200 mL/ac.) <sup>1</sup> Make two applications per season at an interval of 10 to 18 days apart. 1 <sup>st</sup> application – 2 to 3 leaf stage 2 <sup>nd</sup> application – 4 to 5 leaf stage	Group 6 (bromoxynil)	1	24	75
	BIOLOGICALS	<b>MINUJET</b>	<ul style="list-style-type: none"> <li>Biofungicide that contains a bacteria that will germinate to colonize the developing root system and provide suppression of the diseases labeled</li> <li>Excellent mixing characteristics</li> <li>Low use rate and concentrated packaging for less bulk and waste</li> <li>Provides broad spectrum suppression against soil borne and other diseases</li> <li>OMRI-certified</li> </ul>	Rhizoctonia damping-off and root rot*, pink root*, pythium root rot*	L	N/A	0.5 to 2.8 L/ha (0.2 to 1.1 L/ac.)	FRAC Group BM02 ( <i>Bacillus subtilis</i> strain QST 713)	0	4
<b>SERENADE OPTI</b>		<ul style="list-style-type: none"> <li>Provides protection against foliar fungal diseases through multiple sites of action with a flexible application</li> <li>OMRI-certified</li> </ul>	Botrytis neck rot*, botrytis leaf blight*, downy mildew*	W	N/A	Botrytis neck rot*, botrytis leaf blight*: 1.7 to 2.5 kg/ha (0.45 to 1 kg/ac.) Downy mildew*: 1.7 to 3.3 kg/ha (0.69 to 1.34 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.	FRAC Group BM02 ( <i>Bacillus subtilis</i> strain QST 713)	2	4	0
FUNGICIDES	<b>Aliette</b>	<ul style="list-style-type: none"> <li>Fully systemic fungicide that is rapidly absorbed by roots and leaves, allowing the plant to build its own defence against diseases and protecting new growth between applications</li> <li>Stops plant infection by inhibiting spore germination and penetration into the plant</li> </ul>	Downy mildew, purple blotch	W	Maximum 5 applications	2.8 kg/ha (1.13 kg/ac.)	P07 (Fosetyl AL)	When dry	12	7
	<b>Luna TRANQUILITY</b>	<ul style="list-style-type: none"> <li>Delivers outstanding disease protection for onions with a unique all-in-one formulation that combines preventative and systemic properties</li> <li>Two modes of action to protect your crop from key diseases</li> </ul>	Botrytis leaf blight, purple blotch, stemphylium leaf blight* <sup>2</sup>	L	Maximum 2 applications for botrytis Maximum allowed per season: 3.6 L/ha (1.46 L/ac.)	1.2 L/ha (485 mL/ac.)	Group 7 & 9 (fluopyram, pyrimethanil)	When dry	12	7
	<b>SCALA</b>	<ul style="list-style-type: none"> <li>A systemic fungicide for control of botrytis and other major diseases in onions, and other fruit and vegetable crops. It provides translaminar and vapour activity to protect both sides of the leaf and expand the protected area</li> </ul>	Botrytis leaf blight, purple blotch, neck rot	L	Maximum 6 applications	Apply Scala alone at 2.0 L/ha (809 mL/ac.) For botrytis leaf blight on onion only: Scala in tank mix with Bravo® ZN fungicide. Apply Scala at 1.0 L/ha (400 mL/ac.) tank mix with Bravo® ZN fungicide according to with Bravo® ZN fungicide label directions. Begin applications prior to onset of disease which typically occur in humid weather or when rains and heavy dews occur, approximately early to after mid-June. Continue applications on a 7 to 14 day spray interval.	Group 9 (pyrimethanil)	2	12	7
INSECTICIDES/MITICIDES	<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> <li>Works fast on contact and by ingestion</li> </ul>	Onion thrips**	E	Maximum 1 application <sup>3</sup>	100 mL/ha (40.48 mL/ac) Apply as a foliar spray mid-season at proper thrips threshold. <sup>3</sup>	Group 3 (deltamethrin)	1	12	5
	<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> <li>Systemic insecticide, active primarily through ingestion by immature insect life stages</li> </ul>	Onion thrips (larvae)	L	Maximum 2 applications Maximum 730 mL/ha (295 mL/ac.) per year.	365 mL/ha (148 mL/ac.) Minimum of 7 days between applications Apply when thrips are first noticed. Movento should be used during the first half of the season when adult populations are relatively low or building. Reductions in numbers of thrips larvae may take 3 to 4 days after Movento is applied.	Group 23 (spirotetramat)	When dry	12	Bulb vegetables Crop Group 3-07A: 3 Crop Group 3-07B: 7
	<b>o·b·e·r·o·n</b>	<ul style="list-style-type: none"> <li>Provides excellent control of mites and poses minimal risk to beneficial insects when used as directed, making it a great miticide choice that fits well in IPM systems</li> </ul>	Two-spotted spider mites	L	Maximum allowed per 7-day interval: 600 mL/ha (243 mL/ac.) Maximum 3 applications. Maximum 1.8 L/ha (728 mL/ac.) per year	500 to 600 mL/ha (202 to 243 mL/ac.) Minimum of 7 days between applications	Group 23 (spiromesifen)	When dry	12	7

<sup>1</sup> Precaution: Pardner herbicide may cause severe leaf burn in onions if weather conditions have not been conducive to the development of the outer waxy layer of the onions leaf.

<sup>2</sup> Resistance to stemphylium in onions has been documented in Ontario. To avoid further development of fungicide resistance to Group 7 or Group 9, do not apply more than two sequential applications of products in the same FRAC Group.

<sup>3</sup> Refer to Decis 100 EC product label

\* Suppression

\*\* Decis will not control resistant populations of onion thrips.

# RECOMMENDED APPLICATION TIMING

	Product	Registration No.	Pests	Planting	Loop	2-3 Leaf Stage	4-5 Leaf Stage	Bulb Initiation	Bulb Development	Fall Down	Harvest
HERBICIDES	<b>PARDNER</b>	18001	Broadleaf weeds			█					
BIOLOGICALS	<b>MINUET</b>	33651	Rhizoctonia damping-off and root rot**, pink root**, pythium root rot**	1	█						
	<b>SERENADE OPTI</b>	31666	Botrytis neck rot*, botrytis leaf blight*, downy mildew*			█					
FUNGICIDES	<b>Aliette</b>	24458	Downy mildew, purple blotch			█					
	<b>Luna TRANQUILITY</b>	30510	Botrytis leaf blight, purple blotch, stemphylium leaf blight*			█					
	<b>SCALA</b>	28011	Botrytis leaf blight, purple blotch, neck rot			█					
INSECTICIDES/MITICIDES	<b>decis</b>	33700	Onion thrips**			█					
	<b>MOVENTO</b>	28953	Onion thrips			█					
	<b>o-b-e-r-o-n</b>	28905	Two-spotted spider mite			█					

<sup>1</sup> Optimal application timing for Minuet is at planting.

\* Suppression only

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█ HERBICIDES █ BIOLOGICALS █ FUNGICIDES █ INSECTICIDES/MITICIDES



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