

Tomato and Pepper Crop Protection Guide



RECOMMENDED APPLICATION TIMING: TOMATOES, PEPPERS, EGGPLANT, OKRA**



	Product	Registration No.	Pests	Crop	Pre-Plant	Transplanting	Post- Transplanting	Vegetative Growth	Flowering	Fruitset	Fruit Sizing	Ripening / Pre-Harvest
BIOLOGICAL FUNGICIDES	MINUJET	33651	Phytophthora blight* (<i>Phytophthora capsici</i>)*, pythium root rot*, rhizoctonia damping off and root rot (<i>Rhizoctonia solani</i>)*, fusarium wilt, crown and root rot*	Tomatoes, Peppers, Eggplant, Okra**		1						
	SERENADE OPTI	31666	Tomatoes, Peppers, Eggplant, Okra**: Botrytis grey mould*, early blight (<i>Alternaria solani</i>)* Tomatoes & Peppers only: Bacterial spot*, powdery mildew*	Tomatoes, Peppers, Eggplant, Okra**								
FUNGICIDES	Luna TRANQUILITY	30510	Early blight, septoria leaf spot	Tomatoes								
	SCALA	28011	Early blight, grey mould	Tomatoes								
FUNGICIDE / NEMATOCIDE	VELUM PRIME	32108	Soil-dwelling, root-feeding nematodes (juveniles, adults)*, early blight*	Tomatoes, Peppers, Eggplant, Okra**								
INSECTICIDES / MITICIDES	decis	33700	Peppers: European corn borer Tomatoes: Colorado potato beetle ⁷	Tomatoes, Peppers					3			
	MOVENTO	28953	Aphids, psyllids, whiteflies	Tomatoes, Peppers, Eggplant, Okra**						2		
	o.b.e.r.o.n	28905	Broad mites, two-spotted spider mites, whiteflies (including silverleaf, sweet potato and greenhouse)	Tomatoes, Peppers, Eggplant, Okra**							2	
	SIVANTO prime	31452	Aphids, Colorado potato beetle, leafhoppers, whiteflies	Tomatoes, Peppers, Eggplant, Okra**						3		
	vayego	33711	Armyworms, Colorado potato beetle, cutworms, European corn borer, flea beetles, aphids*	Tomatoes, Peppers, Eggplant, Okra**					4		5	
GROWTH REGULATOR	Ethrel	11580	For uniform and concentrated tomato ripening ⁶	Tomatoes								6

* Suppression only
 ** For all other Fruiting Vegetable (Crop Group 8-09) crops, refer directly to the product label.
¹ Optimal application timing for Minuet biological fungicide is at planting.
² To prevent potential harm to bee brood, avoid application of Oberon miticide/insecticide and Movento insecticide during crop flowering period or when flowering weeds are present.
³ If applications must be made during the crop blooming period, restrict applications to the evening when most bees are not foraging.
⁴ Do not apply vayego insecticide less than 12 days prior to bloom or during bloom.
⁵ To minimize potential harm to pollinators, avoid application of vayego insecticide during crop flowering period or when flowering weeds are present.
⁶ Closed mixing/loading systems are required for Ethrel growth regulator.
⁷ Resistance to Colorado potato beetle has been documented with Decis insecticide in parts of Canada. Please consult your local Bayer representative, extension specialist or certified crop advisor for more information.

NOTES

Product	Features and Benefits	Crop	Key Pests / Diseases Controlled	WAMLEGS Mixing Order	Maximum Applications per Crop Season	Use Rate & Application Tips	Chemical Class Group No.	Rainfast	REI (hours)	PHI (days)
BIOLOGICAL FUNGICIDES	MINUJET	Tomatoes, Peppers, Eggplant, Okra**	Phytophthora blight (<i>Phytophthora capsici</i>)*, pythium root rot*, rhizoctonia damping off and root rot (<i>Rhizoctonia solani</i>)*, fusarium wilt, crown and root rot *	L	N/A	0.5 to 2.8 L/ha (0.2 to 1.1 L/ac.) Recommended rate: 0.9 L/ha (379 mL/ac.)	FRAC Group BMO2 (<i>Bacillus subtilis</i> strain QST 713)	N/A	4	0
	SERENADE OPTI	Tomatoes, Peppers, Eggplant, Okra** Tomatoes & Peppers	Early blight (<i>Alternaria solani</i>)*, Botrytis grey mould* Bacterial spot*, powdery mildew*	W	N/A	Early blight: 2.5 kg/ha (1.01 kg/ac.) Botrytis grey mould: 1.7 to 3.3 kg/ha (0.69 to 1.34 kg/ac.) Bacterial spot: 0.6 to 1.7 kg/ha (0.24 to 0.69 kg/ac.) Begin application soon after emergence or transplant and when conditions are conducive to disease development. Repeat as necessary on a 7 to 10 day interval. Powdery mildew: 1.7 to 3.3 kg/ha (0.69 to 1.34 kg/ac.)	FRAC Group BMO2 (<i>Bacillus subtilis</i> strain QST 713)	2	4	0
FUNGICIDES	Luna TRANQUILITY	Tomatoes	Early blight, septoria leaf spot	L	Maximum 4 L/ha (1.62 L/ac.) per season. Do not apply more than 500 g fluopyram/ha per year, regardless of the formulation or method of application (soil or foliar). If also using Velum Prime, you may apply 1 application of Velum Prime to the soil and up to 2 applications of Luna Tranquility as a foliar spray. If 2 applications of Velum Prime as a soil application are made, no Luna Tranquility applications can be applied as a foliar spray.	800 mL/ha (324 mL/ac.)	Group 7 & 9 (fluopyram, pyrimethanil)	When dry	12	1
	SCALA	Tomatoes	Early blight, grey mould	L	Do not apply more than 3.75 L/ha (1.5 L/ac.) per growing season. Refer to Bravo® ZN fungicide label for maximum number of applications per year in field tomatoes.	Apply Scala at 750 mL/ha (304 mL/ac.) plus Bravo® ZN fungicide according to Bravo® ZN fungicide label directions. Apply when plants are 15 to 20 cm high or when environmental conditions are conducive to disease development. Repeat applications at 7 to 14 day intervals or as necessary to maintain disease control. If severe disease conditions exist, use the 7 day interval. Apply by ground only.	Group 9 (pyrimethanil)	2	12	1
FUNGICIDE / NEMATOCIDE	VELUM PRIME	Tomatoes, Peppers, Eggplant, Okra**	Soil-dwelling, root-feeding nematodes (juveniles, adults)*, early blight*	L	Do not apply more than 500 g fluopyram/ha per year, regardless of formulation or method of application (soil or foliar). This is equivalent to 2 applications of Velum Prime as a soil application; or 1 application of Velum Prime to the soil and up to 2 applications of Luna Tranquility as a foliar spray.	500 mL/ha (202 mL/ac.) Apply specified dosage in the following methods: Chemigation into root-zone through low-pressure drip; trickle; micro-sprinkler or equivalent equipment. Minimum 7-day interval between soil applications. When Velum Prime is applied as a soil application, use a different mode of action for the first foliar fungicide application.	Group 7 (fluopyram)	N/A	12	0
INSECTICIDES / MITICIDE	decis	Peppers	European corn borer	E	Maximum 3 applications	European corn borer: 125 to 150 mL/ha (51 to 61 mL/ac.) in 200 to 500 L/ha (20 to 50 gal./ac.) of water. Apply by ground application. Apply when egg masses begin to hatch or when first signs of insect feeding are evident. Repeat at 5 to 7 day intervals.	Group 3 (deltamethrin)	1	12	3
		Tomatoes	Colorado potato beetle ¹			Colorado potato beetle ¹ : 50 to 75 mL/ha (20 to 30 mL/ac.) in 200 to 500 L/ha (20 to 50 gal./ac.) of water. Apply by ground application. Apply when insects are present or signs of insect feeding are evident. Use the higher rate under severe infestation. Do not apply Decis during excessive heat. Best results achieved when applied in cooler parts of the day.				
	MOVENTO	Tomatoes, Peppers, Eggplant, Okra**	Aphids, psyllids, whiteflies	L	Maximum allowed per crop season: 730 mL/ha (295 mL/ac.)	220 to 365 mL/ha (89 to 148 mL/ac.) Ground application only. Minimum of 7 days between applications. A surfactant should be added to Movento (non-ionic, MSO or horticultural oil).	Group 23 (spirotetramat)	1	12	1
	o-ber-on	Tomatoes, Peppers, Eggplant, Okra**	Broad mites, two-spotted spider mites, whiteflies (including silverleaf, sweet potato and greenhouse)	L	Maximum allowed per 7-day interval: 600 mL/ha (243 mL/ac.) Maximum 3 applications. Maximum 1.8 L/ha (729 mL/ac.) per year.	500 to 600 mL/ha (202 to 243 mL/ac.) Minimum of 7 days between applications. Apply Oberon when populations begin to build and before damaging populations become established.	Group 23 (spiromesifen)	When dry	12	1
	SIVANTO prime	Tomatoes, Peppers, Eggplant, Okra** Tomato & Eggplant	Aphids, leafhoppers, Colorado potato beetle, whiteflies Colorado potato beetle	L	Maximum allowed per crop season: 2,000 mL/ha (810 mL/ac.)	Foliar application: Aphids, leafhoppers: 500 to 750 mL/ha (202 to 304 mL/ac.) Whiteflies, Colorado potato beetle: 750 to 1,000 mL/ha (304 to 405 mL/ac.) Minimum interval between applications: 7 days Ground application only. Soil application: Aphids, whiteflies: 750 to 1,000 mL/10,000 plants See product label for complete details on maximum number of plants per acre allowed based on the Sivanto Prime rate used. Do not make any application of Sivanto Prime insecticide following a soil, in-furrow or seed treatment application of a Group 4D Insecticide In-furrow soil application: 2,000 mL/ha (809 mL/ac.) Rate for single row plantings (spaced 1 m apart) is 20 mL/100 m of row. Rate for twin row plantings (spaced 1.5 m apart) is 30 mL/100 m of row. In twin row plantings, each twin row should consist of two single rows treated with 15 mL/100 m of Sivanto Prime each. Apply as an in-furrow application at transplanting. Application should be made with sufficient water to ensure incorporation into the root zone. Do not make any application of Sivanto Prime insecticide following a soil, in-furrow or seed treatment application of a Group 4D Insecticide	Group 4D (flupyradifurone)	1	12	Foliar: 1 Soil Application: 45 In-furrow: 45
vayego	Tomatoes, Peppers, Eggplant, Okra**	Armyworms, Colorado potato beetle, cutworms, European corn borer, flea beetles, aphids*	L	Maximum 4 applications. Maximum 600 mL/ha (243 mL/ac.)	150 mL/ha (60 mL/ac.) Do not apply less than 12 days prior to bloom or while plants are flowering. Do not apply vayego insecticide for Colorado potato beetle if any group 28 insecticide was applied at planting.	Group 28 (tetraniliprole)	1	12	1	
GROWTH REGULATOR	Ethrel	Tomatoes (primarily intended for processing)	N/A	L	Maximum 1 application	Apply when 5 to 30% of fruits are partly red and red. 3.75 to 6.4 L/ha (1.5 to 2.6 L/ac.) Higher rates may be beneficial when temperatures are expected to be below 18 C and vegetative growth is dense. It is not recommended to apply Ethrel at temperatures above 28 C. Harvest fruit at proper maturity.	Ethephon (not classified)	5	12 ²	Mechanical harvesting: 3 days Hand harvesting: 9 days

¹ Resistance to Colorado potato beetle has been documented with Decis insecticide in parts of Canada. Please consult your local Bayer representative, extension specialist or certified crop advisor for more information.

² Closed mixing/loading systems are required for Ethrel growth regulator.

³ Some activities may require a shorter or longer re-entry interval (REI). Refer to product label for complete details.

* Suppression

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