



Bayer provides solutions to help you grow high-quality apples, increase the marketable yield potential of your crop.

RECOMMENDED APPLICATION TIMING

	Product	Registration No.	Pests	Dormant	Green Tip	Half-Inch Green	Tight Cluster	Pink	Bloom	Petal Fall/Calyx	Fruit Set/First Cover Spray	Subsequent Summer Sprays	Pre Harvest	Post Harvest	
HERBICIDES	Alion	30451	Grass and broadleaf weeds***		[Orange bar from Green Tip to Subsequent Summer Sprays]										
	sencor	Sencor 480 F – 26280 Sencor 75 DF – 17242	Grass and broadleaf weeds		[Orange bar from Green Tip to Subsequent Summer Sprays]										
	Roundup WeatherMAX HERBICIDE TRANSPORBU	27487	Grass and broadleaf weeds		[Orange bar from Green Tip to Subsequent Summer Sprays]										
BIOLOGICAL	SERENADE OPTI	31666	Apple scab, fire blight, powdery mildew		[Green bar from Half-Inch Green to Post Harvest]										
FUNGICIDES	Aliette	24458	Crown and root rot (<i>Phytophthora</i> spp.) Blister spot		A***	A***	A***, B***	A***, B***			B***	B***		A***, B***	
	FLINT Extra	34962	Apple scab ¹ , cedar apple rust, fly speck, powdery mildew, sooty blotch			[Green bar from Half-Inch Green to Subsequent Summer Sprays, labeled 1]									
	Luna TRANQUILITY	30510	Apple scab ³ , apple leaf scab, powdery mildew		[Green bar from Green Tip to Post Harvest, labeled 3]										
	SCALA	28011	Apple scab, botrytis storage diseases ⁴ , penicillium storage diseases ^{4*}		[Green bar from Green Tip to Subsequent Summer Sprays, labeled 4]										
NEMATOCIDE	VELUM PRIME	32108	Nematodes*	[Purple bar from Green Tip to Post Harvest]											
INSECTICIDES	caLypso	28429	Aphids (green apple ² , rosy ¹) Oriental fruit moth, spotted tentiform leafminer European apple sawfly Mullein bug Plum curculio Codling moth Apple maggot, Japanese beetles, leafhoppers			1	1	1		1	1	2			
	decis	33700	Apple leaf curling midge, oblique banded leafroller, Oriental fruit moth, plant bug, spring feeding caterpillars, tentiform leaf miner (adults)		[Blue bar from Green Tip to Subsequent Summer Sprays]										
	MOVENTO	28953	Aphids (green, rosy and woolly apple), apple leaf curling midge, mealybug, San Jose scale		[Blue bar from Green Tip to Subsequent Summer Sprays]										
	SIVANTO prime	31452	Aphids (except woolly apple), leafhoppers, oystershell scale, San Jose scale		[Blue bar from Green Tip to Subsequent Summer Sprays]										
	vayego	33711	Oblique banded leafroller, Oriental fruit moth European apple sawfly, mullein bug* Plum curculio* Codling moth Apple maggot* Aphids*		[Blue bar from Green Tip to Subsequent Summer Sprays]										
GROWTH REGULATOR	Ethrel	11580	For increased flowering, for use in non-bearing trees only		[Light blue bar from Subsequent Summer Sprays to Pre Harvest]										

HERBICIDES BIOLOGICALS FUNGICIDES NEMATOCIDE INSECTICIDES GROWTH REGULATOR

*Suppression only
***Do not use when ground is frozen

A***Drench application timing only

B***Foliar application timing

¹ In areas outside of Ontario, apply Flint® Extra fungicide in a tank-mix with a compatible registered contact fungicide (EBDC) for two modes of action. Do not apply Flint Extra for apple scab in Ontario.

² Only for 'Mutsu', 'Jonagold' and 'Golden Delicious' apple varieties.

³ For apple scab, use a tank-mix partner of Dithane™ Rainshield™ fungicide (from pink on). Dithane™ Rainshield™ fungicide should also be used as part of a resistance management program.

NOTES

Product	Features anenefits	Key Pests / Diseases Controlled	Maximum Applications per Crop Season	WAMLEGS Mixing Order	Use Rate and Application Tips	Chemical Clas Group No.	Rainfast (hours)	REI (hours)	PHI (days)	
HERBICIDES		<ul style="list-style-type: none"> Provides pre-emergent control for a broad spectrum of broadleaf and grassy weeds Can be applied any time during the season as long as ground is not frozen or snow-covered Only needs 1/4" of rain to activate 	Annual grass and broadleaf weeds For a complete list of weeds, refer to the Alion® herbicide product label	Maximum 1 application	L	375 mL/ha (152 mL/ac.) Apply to established crops of at least three full growing seasons. If emerged weeds are present at the time of application, tank mix Alion with a contact herbicide. See product label for details.	Group 29 (indaziflam)	N/A	12	14
		<ul style="list-style-type: none"> Proven crop safety Unsurpassed and consistent weed control under ideal and tough conditions 30-minute rainfast guarantee Enhanced efficiency with a 540 g/L formulation 	Grass and broadleaf weeds For a complete list of weeds, refer to the Roundup WeatherMAX® herbicide product label	Refer to Roundup WeatherMAX product label	G	1.5 to 8 L/ha (0.6 to 3.2 L/ac.) Apply on established plantings only. Unless otherwise specified use 0.67 L per 100 L of water. For best results on harder to control perennials (such as bindweed, hemp dogbane, milkweed and Canada thistle), use 1.34 L per 100 L of water.	Group 9 (glyphosate)	0.5	12	30
		<ul style="list-style-type: none"> Broad-spectrum broadleaf and grass weed control Residual control with post-emergent contact activity on many annual weeds Approved for use on all ages of trees, from newly planted to well-established orchards 	Grass and broadleaf weeds For a complete list of weeds, refer to the Sencor® herbicide product label	Sencor 480 F – Maximum 1 application Sencor 75 DF – Maximum 1 application	Sencor 480 F – L Sencor 75 DF – W	Established trees: Sencor 75 DF – 1 kg/ha (404 g/ac.) Sencor 480 F – 1.5 L/ha (607 mL/ac.) Apply as a pre-emergence band application under trees in minimum of 150 to 300 L water/ha (16 to 32 gal./ac.) Newly planted trees: Sencor 75 DF – Coarse soil – 500 g/ha (202 g/ac.) – Medium soil – 750 g/ha (304 g/ac.) – Fine soil – 1 kg/ha (404 g/ac.) Sencor 480 F – Coarse soil – 750 mL/ha (304 mL/ac.) – Medium soil – 1.1 L/ha (445 mL/ac.) – Fine soil – 1.5 L/ha (604 mL/ac.) Apply as a pre-plant incorporated application in 150 to 300 L of water/ha (16 to 32 gal./ac.) before transplanting fruit trees.	Group 5 (metribuzin)	6	12	60
BIOLOGICAL		<ul style="list-style-type: none"> Broad-spectrum, biological foliar fungicide that provides effective anti-fungal and anti-bacterial activity Unique mode of action (FRAC Group BM02) makes for the best defence against the development of resistance Is exempt from tolerances (no MRL or residue concerns), so you can sell your crops into even the most restrictive markets 	Fire blight Apple scab, powdery mildew	N/A	W	1.1 to 1.7 kg/ha (0.45 to 0.69 kg/ac.) 1.7 to 3.3 kg/ha (0.69 to 1.33 kg/ac.)	FRAC Group BM02 (QST 713 strain of drier <i>Bacillus subtilis</i>)	When dry	Immediately	0
		<ul style="list-style-type: none"> Fully systemic fungicide rapidly absorbed by roots and leaves, allowing the plant to build its own defence against diseases and protecting new growth between applications Protective defence: stops plant infection by inhibiting spore germination and penetration into the plant 	Blister spot (only for 'Mutsu,' 'Jonagold' and 'Golden Delicious' varieties) Crown and root rot High density planting: maximum 2 applications (or 10 kg/ha [4.04 kg/ac.] before harvest)	Foliar: maximum 3 applications Maximum of 10 kg/ha (4.04 kg/ac.) if applying for both blister spot, and crown and root rot (or 10 kg/ha before harvest) Foliar: maximum 2 applications Drench: maximum 2 applications (or 10 kg/ha [4.04 kg/ac.] before harvest)	W	2 kg/ha (810 g/ac.) Foliar: Begin application at petal fall repeating at 7 day intervals. Do not mix with products containing copper. For bearing trees: 3 to 5 kg/ha (1.2 to 2 kg/ac.). Foliar: treat from tight cluster to pink when there is sufficient leaf area present to take up the spray. Treat again approximately 6 weeks later. Treat again in the fall soon after harvest. Do not mix with products containing copper. For non-bearing trees: standard planting up to 500 trees/ha: 10 grams/tree. High density planting (> 500 trees/ha): 5 to 10 grams/tree. Drench: make the first application in spring any time after silver tip and again in early fall. Do not mix with products containing copper.	P07 (Fosetyl A)	1	4 days for thinning activities; 12 hours for other activities	30
FUNGICIDES		<ul style="list-style-type: none"> Low use rates in an easy-to-use liquid SC formulation Broad-spectrum fungicide with long-lasting preventive and translaminar activity Protects the leaf surface and penetrates the leaf tissue A potent inhibitor of spore germination and mycelial growth 	Apple scab ¹ Cedar apple rust, powdery mildew Fly speck, sooty blotch	Maximum 4 applications Maximum 860 mL/ha (348 mL/ac.) per year	L	145 to 180 mL/ha (58 to 72 mL/ac.) Begin applications at half inch green and continue as needed on a 7 to 10 day interval. 145 to 215 mL/ha (58 to 86 mL/ac.) Begin applications preventatively and continue as needed on a 10 to 14 day interval. For powdery mildew control, use higher rate during pink to bloom stage. 145 to 180 mL/ha (58 to 72 mL/ac.) Begin applications preventatively and continue as needed on a 10 to 14 day interval.	Group 11 (trifloxystrobin)	2	4 days for thinning activities; 12 hours for other activities	14
		<ul style="list-style-type: none"> A broad-spectrum fungicide with preventive, systemic and post-infection (for apple leaf scab) properties Post-infection properties are effective for up to 72 hours after apple leaf scab infection Best suited for use in a preventive treatment program 	Powdery mildew Apple leaf scab Apple scab	Maximum 4 applications. Maximum 3.2 L/ha (1.3 L/ac.) per year	L	600 mL/ha (243 mL/ac.) Begin applications preventatively and continue as needed on a 7 to 14 day interval. 800 mL/ha (324 mL/ac.) Begin applications at half inch green and continue as needed on a 7 to 14 day interval. 800 mL/ha (324 mL/ac.) + 3 kg/ha (1.2 kg/ac.) of Dithane™ DG Rainshield NT. Begin applications at half inch green and continue as needed on a 7 to 14 day interval.	Group 7 & 9 (fluopyram, pyrimethanil)	When dry	24 hours for thinning activities; 12 hours for other activities	14 45 (Luna Tranquility only) 77 (when tank mixed with Dithane™ Rainshield™ fungicide)
		<ul style="list-style-type: none"> Excellent early-season control of leaf scab with up to 72 hours post-infection activity Provides systemic control that works well in cool or warm weather, for those critical early-season sprays Rapid uptake with translaminar activity to protect both sides of the leaf and expand the protected area Used as a pre-harvest spray, Scala® fungicide also protects apples in storage from destructive diseases such as botrytis and penicillium 	Apple scab Botrytis storage diseases, penicillium storage diseases*	Maximum 4 applications	L	0.75 to 1.0 L/ha (300 to 400 mL/ac.) Apply early in the season at 7 to 12 day intervals from green tip to pink stage. Do not apply post bloom. 0.75 L/ha (300 mL/ac.) + 3 kg/ha (1.2 kg/ac.) of Dithane™ DG. Apply early in the season at 7 to 12 day intervals from green tip to pink stage. Do not apply post bloom. 1.5 to 2.0 L/ha (610 to 810 mL/ac.) Apply two weeks prior to harvest.	Group 9 (pyrimethanil)	2	24 hours for thinning activities; 12 hours for other activities	14 45 (Scala only) 77 (when tank mixed with Dithane™ Rainshield™ fungicide)
		<ul style="list-style-type: none"> Broad-spectrum nematocidal activity targeting soil-dwelling, root-feeding nematodes A first-of-its-kind tool for managing nematodes in pome fruit crops in Canada Simple and easy to use 	Soil dwelling, root feeding nematodes (juveniles and adults)*	Maximum 500 g fluopyram/ha per year, regardless of formulation or method of application	L	500 mL/ha (202 mL/ac.) Apply by chemigation into root-zone. Apply to newly planted trees or those previously trained to drip, trickle or micro-sprinkler irrigation. Soil must be lightly pre-wetted to break soil surface tension prior to applications. Two applications recommended. Minimum 30-day interval between soil applications.	Group 7 (fluopyram)	N/A	12	7
INSECTICIDES		<ul style="list-style-type: none"> Broad-spectrum control of chewing and sucking insect pests that is gentle on beneficials Excellent ovicidal activity on codling moth and Oriental fruit moth Provides translaminar and locally systemic activity; controls insects by contact and ingestion of the treated plant tissue Ideal for petal fall/calyx spray for broad-spectrum control 	First generation codling moth, plum curculio, European apple sawfly Apple maggot, second generation codling moth, Oriental fruit moth First generation spotted tentiform leafminer, leafhoppers Aphids, Japanese beetle, mulllein bug, 2 nd and 3 rd generation spotted tentiform leafminer	Maximum 3 applications Maximum 875 mL/ha (354 mL/ac.) per year	L	290 to 440 mL/ha (116 to 176 mL/ac.) 440 mL/ha (176 mL/ac.) 145 mL/ha (58 mL/ac.) 145 to 290 mL/ha (58 to 116 mL/ac.). Use the higher rate for heavy infestations. Refer to label for guidance on specific pests.	Group 4 (thiacloprid)	4	12	30
		<ul style="list-style-type: none"> Works fast – on contact and by ingestion Effective on a broad range of insect pests 	Plant bug Apple leaf curling midge Spring feeding caterpillars, Oblique banded leafroller Tentiform leaf miner (adults)	Maximum 3 applications	E	100 mL/ha (40.48 mL/ac.) 100 to 125 mL/ha (40.48 to 50.60 mL/ac.) 100 mL/ha (40.48 mL/ac.) Apply when first signs of feeding are visible 125 mL/ha (50.60 mL/ac.) Apply when adults are first visible. Thorough coverage on trunk and scaffold limbs is recommended. Decis is not effective in controlling eggs of mining larvae and should be used to prevent re-infestation of adult generations.	Group 3 (deltamethrin)	1	12	1
		<ul style="list-style-type: none"> Movento® insecticide controls pests that products with only contact or translaminar activity often miss With a unique two-way systemic control, Movento travels up and down the entire plant to protect leaves, roots and new growth Provides another mode of action for better resistance management and rotations Residual activity continues to protect new growth 	Aphids (green apple, rosy apple and woolly apple), whitefly Mealybug, San Jose scale, apple leaf curling midge***	Maximum 1.83 L/ha (0.74 L/ac.) per year Maximum of 2 applications per season for apple leaf curling midge Maximum 1.83 L/ha (0.74 L/ac.) per year**	L	365 to 435 mL/ha (148 to 176 mL/ac.) Repeat at 14 to 21 day intervals as needed. 365 to 585 mL/ha (148 to 237 mL/ac.) Repeat at 14 to 21 day intervals as needed. A surfactant should be added to Movento (non-ionic, MSO or horticultural oil).	Group 23 (spirotetramat)	When dry	12	7
		<ul style="list-style-type: none"> The first insecticide in a new chemical sub-class, Group 4D Combines proven Group 4 insecticide efficacy with a favourable safety profile for many beneficial insects Minimal application timing restrictions allowing application based on pest thresholds, not plant staging Antifeedant properties and quick knockdown of adult pests 	Aphids (except woolly apple), leafhoppers Oystershell scale, San Jose scale	Maximum 2,000 mL/ha (809 mL/ac.) per crop season	L	500 to 750 mL/ha (202 to 303 mL/ac.) 750 to 1,000 mL/ha (303 to 405 mL/ac.) + horticultural oil at 0.25% vol/vol.	Group 4D (flupyradifuron)	1	12	14
		<ul style="list-style-type: none"> vayego® insecticide, a second generation diamide, combines excellent knockdown and control of key orchard pests Tank-mix friendly Registered for use on a wide variety of horticulture and row crops for systemic control of a variety of pests 	Codling moth, oblique banded leafroller, European apple sawfly Aphids* Oriental fruit moth, mulllein bug*, plum curculio*, apple maggot*	Maximum of 3 applications. Maximum 900 mL/ha (360 mL/ac.) per crop season	L	225 mL/ha (91 mL/ac.)** 150 mL/ha (60 mL/ac.) 300 mL/ha (120 mL/ac.)**	Group 28 (tetraniiprole)	1	12	7
GROWTH REGULATOR		<ul style="list-style-type: none"> Enhances fruit production in young, non-bearing apple trees Vegetative growth is reduced during the season of application, promoting flower bud development the following spring 	Enhanced bloom		L	Apply a foliar spray to non-bearing trees, 1 to 2 weeks after peak bloom period. On young orchard trees just beginning to initiate a few flowers, delay applications until 3 to 5 weeks after full-bloom. DO NOT use on apple trees when fruit are present. Ensure trees are large enough to support a crop of apples before being treated. Dilute Sprayers Spur-type trees Non spur-type trees Concentrate Sprayers Spur-type trees Non spur-type trees	Ethephon* *Not classified	5	10 days for hand-pruning, scouting and training; 2 days for transplanting; 12 hrs for all other activities	14

¹ In areas outside of Ontario, apply Flint® Extra fungicide in a tank-mix with a compatible registered contact fungicide (EBDC) for two modes of action. Do not apply Flint Extra for apple scab control in Ontario.

*Suppression only

**Apply post-bloom only



For more information, visit cropsience.bayer.ca

cropsience.bayer.ca | 1 888-283-6847 |   @Bayer4CropsCA | #AskBayerCrop

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Aliette®, Alion®, Bayer, Bayer Cross, BayerValue™, Calypso®, Decis®, Ethrel®, Flint®, Luna Tranquility®, Hot Potatoes®, Movento®, Roundup WeatherMAX®, Scala®, Sencor®, Serenade®, Sivanto®, Transorb®, vayego® and Velum® are trademarks of Bayer Group. Used under license. All other trademarks are the property of their respective owners. Bayer CropScience Inc. is a member of CropLife Canada. ©2024 Bayer Group. All rights reserved.

