

# Pest Control Products Registered for Use on Hops in Ontario - 2018

This table lists pest control products registered on hops in Ontario as of July 1, 2018. This list is intended as a guide and does not replace current product labels. Labels and product registrations status can change. **Always read the label thoroughly before applying a pest control product and follow all label instructions.** Various federal and provincial regulations govern the use of pesticides on all crops in Ontario. It is the grower and applicator's responsibility to be aware of these regulations. More information on the use of pesticides in Ontario can be found on the OMAFRA website at [www.ontario.ca/usingpesticides](http://www.ontario.ca/usingpesticides)

## TABLE 1 - INSECT CONTROL FOR HOPS IN ONTARIO

### LEGEND

**Group:** Chemical group number for a pest control product established by the Insecticide Resistance Action Committee (insecticides), Fungicide Resistance Action Committee (fungicides) or Weed Science Society of America (herbicides) based on mode of action for resistance management planning.

**REI:** Restricted Entry Interval. Do not enter treated fields unprotected until after the REI has passed. For some hop products, the REI varies with the activity. If the REI is not specified, assume a 12-hr REI.

**NS:** Not specified on label.

**PHI:** Pre-Harvest Interval. The required time period between the last spray and the first harvest.

Group	Active Ingredient	Trade Name	Rate	REI	PHI	Notes
<b>HOP APHID</b>						
4	imidacloprid	Admire 240 F	230 mL/ha	24 hrs	28 days	Allow at least 21 days between applications. <b>No more than 2 foliar applications per season.</b>
4D	flupyradifurone	Sivanto Prime	500-750 mL/ha	12 hrs	21 days	Apply as a directed foliar spray ensuring thorough coverage. Use a minimum application volume of 100 L/ha. <b>No more than 750 mL/ha Sivanto Prime permitted per season.</b>
23	spirotetramat	Movento 240 SC	365-435 mL/ha	12 hrs	7 days	Apply early in infestation as populations begin to develop. Use higher rates for moderate to heavy pressure or where longer residual control is desired. Use a minimum application volume of 500 L water/ha. Apply with an adjuvant as specified on product label. Allow at least 14 days between applications. <b>No more than 920 mL/ha Movento 240 SC permitted per season.</b>
29	flonicamid	Beleaf 50 SG	0.12 – 0.16 kg/ha	31 days (stripping and training)  12-hrs (all other activities)	31 days	Apply as populations begin to increase and before damaging levels become established. Apply in sufficient water to ensure good coverage (minimum 94 L/ha). Increase spray volume when foliage is dense. Allow at least 7 days between applications. <b>No more than 3 applications per year.</b>

**TABLE 1 continued - INSECT CONTROL FOR HOPS IN ONTARIO**

Group	Active Ingredient	Trade Name	Rate	REI	PHI	Notes
<b>HOP APHID (continued)</b>						
NC	mineral oil	Purespray Green Spray Oil 13 E	10 L/ha	12 hours	N/A – discontinue at burr development	<b>Feeding deterrent only.</b> Apply in at least 1000 L water/ha (1% solution) to avoid phytotoxicity. Do not take mix with copper. Discontinue use at burr development. Tolerance has not been determined for all varieties—test a small area of each variety prior to spraying the whole block. Do not apply to crops under moisture stress or just prior to or during freezing weather. <b>No more than 8 applications permitted per year.</b>
	Potassium salts of fatty acids	Opal Insecticidal Soap Kopa Insecticidal Soap	Mix 8L product with 400 L water and apply at 700-1900 L/ha	12 hrs	0 days	Repeat every 1-2 weeks as needed. Apply to a maximum of 3 consecutive applications to ensure plant injury does not occur. Additional applications may be possible – see label for details
<b>TWO SPOTTED SPIDER MITE</b>						
6	abamectin	Agri-Mek SC	125-250 mL/ha	12 hrs	28 days	For applications at 1/2 trellis growth (1.8-2.5 m), apply 125-250 ml product in at least 400 L water/ha. For applications beyond 1/2 trellis growth, do not use less than 225 mL product/ha in at least 950 L water/ha. Allow at least 21 days between applications. Apply with a non-ionic surfactant as specified on label. Do not graze treated crop. <b>No more than 2 applications (500 mL/ha) permitted per year.</b>
20 D	bifenazate	Acramite 50 WS	851 g/ha	5 days (stripping , training)  12 hrs (all other activities)	14 days	Apply in at least 1000 L/ha. This product is primarily active on motile stages of mites. This product is not systemic - thorough coverage of upper and lower leaf surface is necessary for effective control. <b>No more than 1 application per year.</b>
23	spirodiclofen	Envidor 240 SC	0.75 L/ha	2 days (stripping, training)  12 hrs (all other activities)	21 days	Thorough coverage required for effective control. Apply in 500-1000 L water/ha. <b>No more than 1 application (0.75 L/ha) permitted per year.</b>
NC	mineral oil	Purespray Green Spray Oil 13 E	10 L/ha	12 hrs	N/A - stop use at burr development)	<b>Suppression only.</b> See comments under hop aphid

**TABLE 1 continued - INSECT CONTROL FOR HOPS IN ONTARIO**

Group	Active Ingredient	Trade Name	Rate	REI	PHI	Notes
<b>TWO SPOTTED SPIDER MITE (continued)</b>						
NC	Potassium salts of fatty acids	Opal Insecticidal Soap	Mix 8L product with 400 L water and apply at 700-1900 L/ha	12 hrs	0 days	See comments under hop aphid.
		Kopa Insecticidal Soap				
<b>CATERPILLARS</b>						
11	<i>Bacillus thuringiensis</i> var <i>kurstaki</i>	Dipel 2X DF	Hop looper 275-550 g/ha Corn borer 560-1120 g/ha	12 hrs	0 days	Apply at first sign of infestation when larvae are small. Repeat if necessary at 5-10 day (Bioprotec) or 3-14 day (Dipel) intervals. Apply Bioprotec in a minimum of 300 L water/ha. <b>For corn borer, no more than 3 applications of Bioprotec per generation (max 6 Bioprotec applications per year).</b>
	<i>Bacillus thuringiensis</i> var <i>kurstaki</i>	Bioprotec CAF	Hop looper 1.4-2.8 L/ha Corn borer 2.8-4.0 L/ha			
	<i>Bacillus thuringiensis</i> subsp. <i>aizawai</i>	XenTari WG	Hop looper 500-100 g/ha	12 hrs	0 days	Apply at first sign of infestation when larvae are small. Use sufficient spray volume for thorough coverage but not run off. Repeat if needed at 3-14 day intervals.
28	chlorantraniliprole	Coragen	Cutworms 250-375 ml/ha Cabbage looper 250 ml/ha	12 hrs	0 days	Allow at least 7 days between applications. <b>Do not make more than 4 applications per season (maximum 1.25 L/ha/season).</b>

**TABLE 2 - DISEASE CONTROL FOR HOPS IN ONTARIO**

Group	Active Ingredient	Trade Name	Rate	REI	PHI	Notes
<b>DOWNY MILDEW</b>						
4	metalaxy-m and s-isomer	Ridomil Gold 480 SL	570 mL/ha	12 hrs	135 days	Apply in early April as a soil drench at the root site. Apply in 200 L water/ha. <b>No more than 1 application per season.</b>
21	cyazofamid	Torrent 400 SC	0.15-0.2 L/ha	12 hrs	3 days	Apply preventatively when disease is first seen or conditions are conducive to disease development. Allow at least 7-14 days between applications. Alternate foliar sprays of Torrent with a fungicide with a different mode of action. Use low rate and long intervals for preventative applications or low disease pressure, increasing rate and shortening intervals as disease pressure increases. Apply with a non-ionic or organosilicone surfactant as specified on product label. Apply in at least 935 L water/ha. <b>No more than 6 applications (1.2 L/ha) per crop growing season.</b>
40	dimethomorph	Forum	450 mL/ha	18 days (hand harvest, stripping, training) 12 hrs (all other activities)	7 days	<b>Suppression only.</b> Apply preventatively when conditions are favorable to disease development. Acrobat <b>must be tank mixed</b> with a fungicide from another group active against downy mildew. Allow at least 10 days between applications. Do not use less than 200 L water/ha. <b>No more than 3 applications per season.</b>
	mandipropamid	Revus	600 mL/ha	12 hrs	7 days	Apply preventatively when conditions are favorable to disease development. Allow at least 7-10 days between applications. Label directions suggest use with a non-ionic adjuvant. Do not make more than 2 consecutive applications of Revus before rotating to a fungicide that is not in Group 40. No more than 50% of all applications for downy mildew per season should be Revus. <b>No more than 3 applications</b>
40/45	ametoctradin + dimethomorph	Zampro	0.8-1.0 L/ha	18 days (hand harvest, training, stripping) 12 hrs (all other activities)	7 days	Begin applications prior to disease development. Allow at least 10 days between applications. Label directions suggest use with an adjuvant. Apply in a minimum of 200 L water/ha. Do not make more than 2 sequential applications of Zampro before rotating to another fungicide that is not in Group 40 or 45. <b>No more than 3 applications per season.</b>

**TABLE 2 continued - DISEASE CONTROL FOR HOPS IN ONTARIO**

Group	Active Ingredient	Trade Name	Rate	REI	PHI	Notes
<b>DOWNY MILDEW (continued)</b>						
44	<i>Bacillus subtilis</i>	Serenade Opti	3.3 kg/ha	12 hrs	0 days	<b>Partial suppression only.</b> Begin applications when conditions are conducive to disease development. Repeat as needed on a 7 to 10 day interval.
M	copper sulphate	Copper 53W	4-5 kg/1000 L	48 hrs	2 days	Apply when conditions are favorable to disease development. Allow at least 10 days between applications. Do not tank mix with spray oils—refer to oil labels for more precautions. <b>No more than 4 applications per year.</b>
P5	Extract of <i>Reynoutria sachalinensis</i>	Regalia Maxx	0.25-0.50% v/v (1.875-3.75 L product/750 L water)	when dry	0 days	<b>Partial suppression only.</b> Apply preventatively when environmental conditions are conducive for disease development. Allow at least 7 days between applications. Adjust spray equipment to achieve thorough coverage as the crop grows. Apply a maximum of 750 L spray solution/ha. <b>No more than 8 applications per season.</b>
<b>POWDERY MILDEW</b>						
13	Quinoxifen	Quintec	300-500 mL/ha	12 hrs	21 days	<b>Suppression only.</b> Apply preventatively when conditions are favorable to disease development. Allow at least 14 days between applications. <b>No more than 2 applications per year.</b>
7/11	boscalid + pyraclostrobin	Pristine WG	0.105 kg/ 100 L dilute spray	8 days (hand set irrigation)  46 days (harvest)  12 hrs (all other activities)	46 days	<b>Also provides suppression of downy mildew.</b> Begin applications prior to disease development. Allow at least 10-14 days between applications. Use 234 to 468 L dilute spray/ha (0.25-0.49 kg/ha) prior to trellising and 935-1524 L dilute spray/ha (0.98-1.6 kg/ha) after. Do not apply more than 1524 L dilute spray/ha. <b>No more than 3 applications per season</b>
	fluopyram + trifloxystrobin	Luna Sensation	300-600 mL/ha	12 hrs	14 d	Begin applications when conditions are favourable for disease and continue as needed on a 10-14 day interval. Use low rate for small plants. Use sufficient water volume to apply just to the point of runoff. Do not make more than 2 applications before rotating to a fungicide that is not in group 7 or 11. <b>Do not apply more than 1980 mL product/ha per season.</b>

**TABLE 2 continued - DISEASE CONTROL FOR HOPS IN ONTARIO**

Group	Active Ingredient	Trade Name	Rate	REI	PHI	Notes
<b>POWDERY MILDEW (continued)</b>						
13	Quinoxifen	Quintec	300-500 mL/ha	12 hrs	21 days	<b>Suppression only.</b> Apply preventatively when conditions are favorable to disease development. Allow at least 14 days between applications. <b>No more than 2 applications per year.</b>
50	metrafenone	Vivando SC	0.750 - 1.12 L/ha	12 hrs	14 days	<b>Suppression only.</b> Begin applications prior to onset of disease. Allow at least 14 days between applications. When plant growth is rapid, ensure new growth is adequately protected. A non-ionic surfactant may improve performance. <b>No more than 2 applications or 2.24 L product/ha per season.</b>
NC	canola oil	Vegol Crop Oil	Mix 1 L concentrate/ 50 L water (2% solution)			<b>Suppression only.</b> Apply at a spray volume of 700-1900 L/ha. Begin applications when disease first appears and continue on a 7-14 day interval as needed. To protect new growth, spray at early leaf stages. Discontinue use at burr development. Do not apply when temperatures are above 32°C, just prior to/during freezing or when plants are wet due to melting frost or heavy dews. Do not use in combination with or closely following copper, as phytotoxicity may result. <b>No more than 4 summer applications permitted per year.</b>
	mineral oil	Purespray Green Spray Oil 13 E	10 L/ha	12 hrs	N/A - discontinue at burr development	<b>Suppression only.</b> Apply in at least 1000 L water/ha (1% solution) to avoid phytotoxicity. Do not take mix with copper. Discontinue use at burr development. Tolerance has not been determined for all varieties—test a small area of each variety prior to spraying the whole block. Do not apply to crops under moisture stress or just prior to or during freezing weather. <b>No more than 8 applications permitted per year.</b>
	potassium bicarbonate	MilStop  Sirocco	2.8-5.6 kg/ha	4 hrs	0 days	<b>Suppression only.</b> Begin application at the first sign of disease. Repeat at 7-14 day intervals until conditions are no longer favorable for disease development. Use the high rate for conditions of high to moderate disease pressure and shorten application interval during periods of rainy weather or high relative humidity. Apply in 500-1000 L water/ha. <b>No more than 10 applications per season.</b>

**TABLE 2 continued - DISEASE CONTROL FOR HOPS IN ONTARIO**

Group	Active Ingredient	Trade Name	Rate	REI	PHI	Notes
<b>CROWN GALL</b>						
ns	<i>Agrobacterium radiobacter</i>	Dygal	Nursery product only - see label for details	12 hrs	n/s	<b>For use only on nursery plants, by trained nursery personnel.</b>
<b>FUSARIUM CANKER</b>						
NC	<i>Trichoderma harzianum</i>	RootShield WP	3-4 kg/ha	12 hrs	0	<b>Suppression only of root rots caused by <i>Fusarium</i>, as well as <i>Pythium</i> and <i>Rhizoctonia</i>.</b> Suspend in at least 1000 L water and apply to soil surface immediately around plants. Use higher rates when conditions favour disease. Irrigation or rainfall of at least 5 mm should occur within 24 hours of application to move active ingredient to the root zone.

**TABLE 3 - WEED CONTROL FOR HOPS IN ONTARIO**

**Pre-emergent Herbicides**—Applied to control weeds prior to weed germination.

**Postemergent Herbicides**—Applied to actively growing weeds.

Group	Active Ingredient	Trade Name	Rate	REI	PHI	Notes
<b>PRE-EMERGENT HERBICIDES</b>						
29	Indaziflam	Alion	375 ml/ha	12 hrs	120 days	For residual control of susceptible grass and broadleaf weeds when applied preemergence to the soil. See label for weed species controlled. Apply as a directed spray to the soil prior to shoot emergence. Dormant application only. Do not use on soils with 20% or more gravel content or less than 1% organic matter or crop injury may result. Note some sandy soils have <1% organic matter. Use only on hops established for at least one year with normal growth and good vigour. Refer to product label for other precautions to avoid crop injury. <b>No more than one application per season.</b>

**TABLE 3 continued - WEED CONTROL FOR HOPS IN ONTARIO**

Group	Active Ingredient	Trade Name	Rate	REI	PHI	Notes
<b>POSTEMERGENT HERBICIDES OR SUCKER CONTROL</b>						
1	clethodim	Select	0.19-0.38 L/ha	12 hrs	21 days	For post emergence control of grassy weeds - see product label for specific weeds and rates. Apply with Amigo adjuvant as specified on product label. Apply in a minimum of 110 L water/ha using ground equipment. Apply when annual grasses and cereals are in the 2 to 6-leaf stage. Control is most effective when applied while grasses are small and actively growing and will be less effective when plants are stressed due to inadequate or excess moisture, low temperature or very low relative humidity. <b>No more than 1 application per season.</b>
		Centurion				
	sethoxydim	Poast Ultra	1.1 L/ha	12 hrs	180 days	For post emergence control of annual grasses and quackgrass. Merge Adjuvant must be applied to all applications of Poast Ultra. For more details on application, refer to product label or OMAFRA Publication 75, <i>Guide to Weed Control</i> .
14	carfentrazone-ethyl	Aim EC	150 ml/ha (sucker management)  36.5 - 117 mL/ha (post-emergent weed control)	12 hrs	7 days	For management of sucker growth, apply as a directed spray to basal portion (approximately lower 45 cm) of plant and to sucker mat extending away from plant to approximately 45-60 cm into row. Apply in at least 200 L/ha spray solution using boom type ground application equipment. For postemergent control of broadleaf weeds within and between rows, apply with shielded sprayer and refer to product label for rates and weeds controlled. Apply with an adjuvant as specified on product label.  Do not apply until trained vines have sufficient barking to avoid stem damage and are high enough that there is no contact with apical bud. Do not allow upward drift of spray solution or contact with new growth. Do not apply AIM using airblast or air assisted sprayers or through an irrigation system. <b>No more than 2 applications/year, at least 14 days apart, for sucker management and no more than 1 application/year for weed control.</b>



**TABLE 4 - POTENTIAL ORGANIC PRODUCTS FOR HOPS IN ONTARIO**

Products listed in this table **may** be acceptable for organic production. However, they may not be accepted by all certification bodies. Always check with your organic certification body before applying any product. For rates and other application instructions, refer to the entry for each product in Tables 1 to 3.

Product	Active Ingredient	Labelled Pests
<b>INSECTICIDES</b>		
<i>Bacillus thuringiensis</i>	Dipel 2X DF	Hop looper, European corn borer
	Bioprotec CAF	
mineral oil	Purespray Green Spray Oil 13 E	Aphids, spider mites
potassium salts of fatty	Kopa Insecticidal Soap	Aphids, spider mites
<b>FUNGICIDES</b>		
copper sulphate	Copper 53 W	Downy mildew
<i>Bacillus subtilis</i>	Serenade Opti	Downy mildew
mineral oil	Purespray Green Spray Oil 13 E	Powdery mildew
potassium bicarbonate	MilStop	Powdery mildew
	Sirocco	
<i>Reynoutria sachalinensis</i> extract	Regalia Maxx	Downy mildew
<i>Trichoderma harzianum</i>	RootShield WP	Fusarium canker
canola oil	Vegol Crop Oil	Powdery mildew
<b>HERBICIDES</b>		
None currently registered on hops.		

## APPENDIX A - Registrants and Ontario Classification for Hops Pesticides

This information is provided as a guideline only. Consult each product label before use for most up-to-date information. Pesticide labels are also available at the Pest Management Regulatory Agency (PMRA) website at [www.pmr-arla.gc.ca](http://www.pmr-arla.gc.ca). Click on "Search Pesticide Labels." **Users of Ontario Class 2 and 3 pesticides must be certified by the Grower Pesticide Safety Course.**

Registration No. <sup>1</sup>	Trade Name	Active Ingredient	Guaranteed Active	Ontario Class <sup>2</sup>	Registrant or Agent's Code <sup>3</sup>
27925	Acramite 50 WS	bifenazate	50%	4	AVV
24094	Admire 240	imidacloprid	240 g/L	4	BCZ
31607	Agri-mek SC	abamectin	84 g/L	3	SYZ
28573	Aim EC	carfentrazone-ethyl	240 g/L	3	FMC/NUA
30451	Alion	Indaziflam	200 g/L	3	BCZ
29796	Beleaf 50SG	flonicamid	50%	4	ISK
26854	Bioprotec CAF	<i>Bacillus thuringiensis</i> var <i>kurstaki</i> strain EVG113-19	11,400 Cabbage Looper Units/mg product	3	AEF
9934	Copper 53W	copper sulphate	53.4%	3	LVP/UAG
28982	Coragen	chlorantraniliprole	200 g/L	2	FMC
27598	Centurion	clethodim	240 g/L	3	BCZ
26508	DiPel 2X DF	<i>Bacillus thuringiensis</i> var <i>kurstaki</i> strain ABTS-351	57%	4	VAA/VAJ
21106	Dygal	<i>Agrobacterium radio-</i> <i>bacter</i> strain K84	5 x 10 <sup>9</sup> colony form- ing units/g	3	MOR
28051	Envidor	spirodiclofen	240 g/L	4	BCZ
32026	Forum Fungicide	dimethomorph	500 g/L	3	BAZ
31433	Kopa Insecticidal Soap	potassium salts of fatty acids	47%	4	WNG/NEU/PRI
32107	Luna Sensation	fluopyram trifloxystrobin	250 g/L 250 g/L	2	BCZ
28095	MilStop Foliar	potassium bicarbonate	85%	4	BWI
28953	Movento 240 SC	spirotetramat	240 g/L	4	BCZ
28146	Opal Insecticidal Soap	potassium salts of fatty acids	47%	4	OMA
24835	Poast Ultra	sethoxydim	450 g/L	4	BAZ
27985	Pristine WG	boscalid pyraclostrobin	25.2% 12.8%	2	BAZ

## APPENDIX A (cont) - Registrants and Ontario Classification for Hops Pesticides

This information is provided as a guideline only. Consult each product label before use for most up-to-date information. Pesticide labels are also available at the Pest Management Regulatory Agency (PMRA) website at [www.pmr-arla.gc.ca](http://www.pmr-arla.gc.ca). Click on "Search Pesticide Labels." **Users of Ontario Class 2 and 3 pesticides must be certified by the Grower Pesticide Safety Course.**

Registration No. <sup>1</sup>	Trade Name	Active Ingredient	Guaranteed Active	Ontario Class <sup>2</sup>	Registrant or Agent's Code <sup>3</sup>
27666	Purespray Green Spray Oil 13 E	mineral oil	99%	4	PCU
29755	Quintec	quinoxifen	250 g/L	3	DWE
30199	Regalia Maxx	<i>Reynoutria sachalinensis</i> extract	20%	3	MBI
29074	Revus	mandipropamid	23.3%	3	SYZ
28474	Ridomil Gold 480 SL	metalaxyl-m and s-isomer	480 g/L	3	SYZ
29890	RootShield WP	<i>Trichoderma harzianum</i>	1 x 10 <sup>7</sup> CFU/g	3	BWI
22625	Select	Clethodim	240 g/L	3	AVV
31666	Serenade Opti	<i>Bacillus subtilis</i>	1.31 x 10 <sup>10</sup> CFU/g	3	BCZ
31091	Sirocco	potassium bicarbonate	85%	4	AEF
31452	Sivanto Prime	flupyradifurone	200 g/L	3	BCZ
30392	Torrent 400SC	cyazofamid	34.5%	4	ISK/ENG
32408	Vegol Crop Oil	canola oil	96%	4	NEU
29765	Vivando SC	metrafenone	300 g/L	2	BAZ
31557	XenTari WG	<i>Bacillus thuringiensis</i> subsp <i>aizawai</i> strain ABTS-1857	48.1%	3	VAA/VAJ
30321	Zampro	ametoctradin dimethomorph	300 g/L 225 g/L	3	BAZ

<sup>1</sup> See the pesticide label to confirm the current product registration number (PCP#).

<sup>2</sup> The Ontario Pesticides Advisory Committee (OPAC) is responsible for reviewing and recommending to the MOE the classification of pesticide products before they can be sold or used in Ontario. Users of Class 2 and 3 products must be certified through the Grower Pesticide Safety Course.

Class 3 = Restricted or commercial use only; moderately hazardous and/or moderately persistent

Class 4 = Restricted or commercial use only; less or least hazard and/or low persistence

<sup>3</sup> See Appendix D, *Pest Control Companies and Agents* for registrant or agent information.

## APPENDIX B - Registrants and Ontario Classification for Hops Pesticides

Code	Company/Agent	Website	Contact Number
AEF	AEF Global Inc	<a href="http://www.aefglobal.com/en/">www.aefglobal.com/en/</a>	418-838-4441
AVV	Arysta LifeScience Canada Inc.	<a href="http://www.arystalifescience.ca">www.arystalifescience.ca</a>	1-800-350-1745
BAZ	BASF Canada Inc.	<a href="http://www.agsolutions.ca">www.agsolutions.ca</a>	1-877-371-2273
BCZ	Bayer Crop Science	<a href="http://www.bayercropscience.ca">www.bayercropscience.ca</a>	1-888-283-6847
BWI	Bioworks Inc.	<a href="http://www.bioworksinc.com">www.bioworksinc.com</a> (US website)	1-800-877-9443
DWE	Dow Agrosiences Canada Inc.	<a href="http://www.dowagro.com/ca">www.dowagro.com/ca</a>	1-800-667-3852
ECT	Eco-Care Technologies Inc.		250-652-5510
ENG	Engage Agro Corp.	<a href="http://www.engageagro.com">www.engageagro.com</a>	1-866-613-3336
FMC	FMC Corporation	<a href="http://www.fmc.com">www.fmc.com</a>	800-331-3148
ISK	ISK Biosciences Corporation	<a href="http://www.iskbc.com">www.iskbc.com</a> (US website)	1-877-706-4640
LVP	Loveland Products Canada Inc.	<a href="http://www.lovelandproducts.com">www.lovelandproducts.com</a> (U.S. website)	1-800-328-4678
MBI	Marrone Bio Innovations	<a href="http://www.marronebioinnovations.com">www.marronebioinnovations.com</a> (US website)	1-877-664-4476
MOR	Mori Nurseries Ltd.		905-468-3217
NEU	Neudorff North America	<a href="http://www.neudorffpro.com/">http://www.neudorffpro.com/</a>	250-652-5888
NUA	Nufarm Agriculture Inc.	<a href="http://www.nufarm.ca">www.nufarm.ca</a>	800-868-5444
OMA	Omex Agriculture Inc.	<a href="http://www.omexcanada.com">www.omexcanada.com</a>	866-860-9660
PCU	Petro-Canada Lubricants	<a href="http://www.purespraygreen.com">www.purespraygreen.com</a>	1-866-335-3369
PRI	Plant Products Inc.	<a href="http://www.plantproducts.com">www.plantproducts.com</a>	1-800-387-2449
SYZ	Syngenta Canada, Inc.	<a href="http://www.syngenta.ca">www.syngenta.ca</a>	1-877-964-3682
UAG	United Agri-Products Canada Inc.	<a href="http://www.uap.ca">www.uap.ca</a>	1-800-265-4624
VAA	Valent BioSciences Corporation	<a href="http://www.valent.ca">www.valent.ca</a>	1-800-682-5368
VAJ	Valent Canada Inc.	<a href="http://www.valent.ca">www.valent.ca</a>	519-767-9262
WNG	W. Neudorff GmbH KG	<a href="http://www.neudorff.com">www.neudorff.com</a> (US website)	011-49-5155-624-127