

2018-3459
2020-03-03

Container label



GROUP	3	INSECTICIDE
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Decis® 100 EC INSECTICIDE

EMULSIFIABLE CONCENTRATE

COMMERCIAL

ACTIVE INGREDIENT: Deltamethrin.....100 grams per liter

REGISTRATION NO. 33700 PEST CONTROL PRODUCTS ACT



DANGER

POISON

CORROSIVE TO EYES. SKIN IRRITANT

READ THE LABEL AND BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 0.25 L to Bulk

Product Information: 1-(888) 283-6847

www.cropscience.bayer.ca

Bayer Cropscience Inc.

200 - 160 Quarry Park Blvd. S.E.
Calgary, Alberta T2C 3G3

In case of spills, poisoning or fire, telephone emergency response number
1-800-334-7577 (24 hours a day)

NOTICE TO USER:

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label.

Decis 100 EC Insecticide is not a systemic product. It controls insects through contact and/or ingestion. For maximum efficacy, it is necessary to consider the following:

- Application timing: With many insect pests, best results will be obtained when insect populations begin to build and before a damaging population becomes established. Ensure that insects are contacted during spraying, especially if they are found on the underside of leaves or if the foliage is very dense. Repeat applications as required to maintain control.
- Application rate: Rates lower than those recommended are likely to result in poorer performance. The high rates should be used for severe insect pressure.
- Weather conditions: Decis 100 EC should not be applied when temperature inversions are prevailing or during periods of excess heat (for example, daytime temperatures greater than 25°C) as a reduction in control will result. Best control will be achieved when Decis 100 EC is applied during the cooler portions of the day (for example early morning or at dusk).
- Coverage: Sufficient water must be used to ensure thorough, uniform coverage over the entire plant surface for optimum insect control. More water may be required when dense foliage is present and depending on the type of spray equipment used. Thorough wetting of all plants is essential for good results. Raindrop nozzles must not be used. When applying Decis 100 EC Insecticide by aircraft, uniform spray coverage is essential. For best results, use sufficient water to ensure complete coverage.
- Visit us at www.cropscience.bayer.ca or phone 1-888-283-6847 for information on recent additional registrations for Decis 100 EC Insecticide.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

Corrosive to the eyes. DO NOT get in eyes. Wear face shield or goggles. Harmful or fatal if swallowed. Harmful if inhaled. May irritate the skin. Avoid contact with skin and clothing and avoid inhaling/breathing dusts, spray, etc. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash before reuse.

PROTECTIVE CLOTHING AND EQUIPMENT:

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. In addition, wear protective eyewear (goggles or face shield) during mixing, loading and application. Gloves and protective eyewear are not required during application within a closed-cab or cockpit.

Apply only to agricultural crops when the potential for drift to areas of human habitation and human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings. Note: If this pest control product is to be used on a commodity that may be exported and you require information regarding Maximum Residue Limits for an importing country, please contact Bayer CropScience Inc. at 1-888-283-6847 or www.cropscience.bayer.ca.

FIRST AID

Take container, label or product name and Pest Control Product registration number with you when seeking medical attention.

IF SWALLOWED	Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.
IF INHALED	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.
IF IN EYES	Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

TOXICOLOGICAL INFORMATION

Medical personnel should contact the Bayer CropScience medical information services toll-free 1-800-334-7577. Treat symptomatically. Skin exposure may cause transient sensations (tingling, burning, itching, numbness). This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. Probable mucosal damage may contraindicate the use of gastric lavage.

ENVIRONMENTAL PRECAUTIONS

TOXIC TO aquatic organisms and non-target terrestrial plants. This product contains an active ingredient and aromatic petroleum distillates, which are toxic to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.

Toxic to small wild mammals.

TOXIC to bees. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to the evening when most bees are not foraging. Avoid applications when bees are foraging in the treatment area in ground cover containing blooming weeds. To further minimize exposure to pollinators, refer to the complete guidance “Protecting Pollinators during Pesticide Spraying – Best Management Practices” on the Health Canada website (www.canada.ca/pollinators).

Toxic to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland. Deltamethrin may impact predatory and parasitic arthropod species used in IPM programs within the treatment area. Unsprayed refugia for beneficial species of at least 1 metre from treatment area will help maintain beneficial arthropod populations.

May harm bees and other beneficial insects used in greenhouse production. Avoid application when bees or other beneficial insects are actively foraging in the treatment area.

DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application of this product when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

STORAGE

Store this product away from food or feed.

Decis 100 EC Insecticide may solidify at temperatures below -20° C but will become usable at temperatures above 0° C. Keep away from fire, open flame, or other sources of heat. Insecticides and fungicides should be segregated from herbicides so as to prevent the possibility of cross-contamination.

DISPOSAL

FOR RECYCLABLE CONTAINERS:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the mixture in the tank.
2. Make the empty container unsuitable for further use.

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FOR RETURNABLE CONTAINERS:

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

FOR REFILLABLE CONTAINERS:

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not use this container for any other purpose.

DISPOSAL OF UNUSED, UNWANTED PRODUCT:

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill and for cleanup of spills.

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GENERAL INFORMATION

Section 1: Notices

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label.

Section 2: The Product

Decis 100 EC Insecticide is not a systemic product. It controls insects through contact and/or ingestion. For maximum efficacy, it is necessary to consider the following:

- Application timing: With many insect pests, best results will be obtained when insect populations begin to build and before a damaging population becomes established. Ensure that insects are contacted during spraying, especially if they are found on the underside of leaves or if the foliage is very dense. Repeat applications as required to maintain control.
- Application rate: Rates lower than those recommended are likely to result in poorer performance. The high rates should be used for severe insect pressure.
- Weather conditions: Decis 100 EC should not be applied when temperature inversions are prevailing or during periods of excess heat (for example, daytime temperatures greater than 25°C) as a reduction in control will result. Best control will be achieved when Decis 100 EC is applied during the cooler portions of the day (for example early morning or at dusk).
- Coverage: Sufficient water must be used to ensure thorough, uniform coverage over the entire plant surface for optimum insect control. More water may be required when dense foliage is present and depending on the type of spray equipment used. Thorough wetting of all plants is essential for good results. Raindrop nozzles must not be used. When applying Decis 100 EC Insecticide by aircraft, uniform spray coverage is essential. For best results, use sufficient water to ensure complete coverage.

Visit us at www.cropscience.bayer.ca or phone 1-888-283-6847 for information on recent additional registrations for Decis 100 EC Insecticide.

SAFETY AND HANDLING

Section 3: Precautions, Protective Clothing and Equipment

PRECAUTIONS

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PROTECTIVE CLOTHING AND EQUIPMENT:

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. In addition, wear protective eyewear (goggles or face shield) during mixing, loading and application. Gloves and protective eyewear are not required during application within a closed-cab or cockpit.

Apply only to agricultural crops when the potential for drift to areas of human habitation and human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

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Section 4: First Aid and Toxicological Information

FIRST AID

Take container, label or product name and Pest Control Product registration number with you when seeking medical attention.

IF SWALLOWED	Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.
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IF ON SKIN OR CLOTHING	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.
IF INHALED	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

TOXICOLOGICAL INFORMATION

Medical personnel should contact the Bayer CropScience medical information services toll-free 1-800-334-7577. Treat symptomatically. Skin exposure may cause transient sensations (tingling, burning, itching, numbness). This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. Probable mucosal damage may contraindicate the use of gastric lavage.

Section 5: Environmental Precautions and Information

ENVIRONMENTAL PRECAUTIONS

TOXIC TO aquatic organisms and non-target terrestrial plants. This product contains an active ingredient and aromatic petroleum distillates, which are toxic to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.

Toxic to small wild mammals.

TOXIC to bees. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to the evening when most bees are not foraging. Avoid applications when bees are foraging in the treatment area in ground cover containing blooming weeds. To further minimize exposure to pollinators, refer to the complete guidance “Protecting Pollinators during Pesticide Spraying – Best Management Practices” on the Health Canada website (www.canada.ca/pollinators).

Toxic to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland. Deltamethrin may impact predatory and parasitic arthropod species used in IPM programs within the treatment area. Unsprayed refugia for beneficial species of at least 1 metre from treatment area will help maintain beneficial arthropod populations.

May harm bees and other beneficial insects used in greenhouse production. Avoid application when bees or other beneficial insects are actively foraging in the treatment area.

DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application of this product when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

Section 6: Storage

Store this product away from food or feed.

Decis 100EC Insecticide may solidify at temperatures below -20° C but will become usable at temperatures above 0° C. Keep away from fire, open flame, or other sources of heat. Insecticides and fungicides should be segregated from herbicides so as to prevent the possibility of cross-contamination.

Section 7: Disposal

FOR RECYCLABLE CONTAINERS:

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DISPOSAL OF UNUSED, UNWANTED PRODUCT:

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill and for cleanup of spills.

DIRECTIONS FOR USE

Section 8: Crops, Pests, Application Rates and Methods

ALFALFA FOR SEED PRODUCTION ONLY

INSECTS	RATE (mL/ha)	RECOMMENDATIONS
Alfalfa Weevil Lygus Bugs	100-125	Apply when insects are present and spraying is recommended. Use the higher rate when the Alfalfa Weevil is present.
Grasshoppers	50-75	
Application method: Ground application in 100 – 300 L of water per ha.		
Pre-Harvest Interval (PHI): 20 days DO NOT APPLY MORE THAN ONCE PER YEAR.		

APPLES

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Apple Aphid	100 mL/ha (34 mL /1000 L of water)	GROUND Apply according to provincial recommendations, usually 17-21 days after petal fall (calyx).

Apple Brown Bug, Mullein Plant Bug	100 mL/ha (34 mL /1000 L of water)	Apply when bugs are present. Follow provincial recommendations
Apple Leaf Curling Midge	100-125 mL/ha (34-43 mL/1000 L of water)	Apply when first signs of damage are visible.
Codling Moth	100-125 mL/ha (34-43 mL/1000L of water)	Apply 7 to 10 days after petal fall (calyx). Repeat sprays at 10 day intervals to a maximum of 3 applications.
Tentiform Leaf Miner (adults only)	125 mL/ha (43 mL /1000 L of water)	Apply when adults are first visible. Thorough coverage on trunk and scaffold limbs is recommended. Decis 100 EC Insecticide is not effective in controlling eggs of mining larvae and should be used to prevent re-infestation of adult generations.
Winter Moth	75 mL/ha (25 mL /1000 L of water)	Apply when first signs of feeding are visible.
Fruit Tree Leafroller, Oblique Banded Leafroller, Pale Apple Leafroller, Eye Spotted Budmoth	100 mL/ha (34 mL /1000 L of water)	Apply when first signs of feeding are visible.
White Apple Leafhopper	100 mL/ha (34 mL/1000 L of water)	Spray when large numbers of adults are present.
Oriental Fruit Moth*	100-125 mL/ha in 3000 L of water	Begin applications when treatment threshold (peak egg hatch) has been reached as indicated by monitoring with pheromone traps in conjunction with degree days. Consult your local extension specialist for advice. Adequate spray coverage is essential for optimum control. The emergence of 3rd or 4th generation of OFM is less synchronized than the 1st or 2nd generations. Alternate with other insecticides for different generations of OFM to delay the insecticide resistance development in the pest populations.

Pre-Harvest Interval (PHI): 1 day

DO NOT APPLY MORE THAN 3 TIMES PER YEAR.

DO NOT apply when apple trees are in bloom.

Repeated applications are not advised when integrated pest management is in effect, because severe reductions of beneficial arthropods will result.

*DO NOT apply more than once every 12 days.

*Applications timed for other pests may reduce the number of applications required for this pest.

*For use in Ontario only.

ASPARAGUS

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Asparagus Beetle	100 mL/ha in 200-500 L/ha of water	GROUND First application should be in spring prior to egg laying. Application must take place after the spears have been cut.
DO NOT APPLY MORE THAN 3 TIMES PER YEAR. DO NOT apply to asparagus prior to the cutting of spears.		

BLUEBERRIES

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Leaf Tier	75 mL/ha	GROUND Apply in the bud cluster stage (just prior to leaf bud opening).
Bruce Spanworm	62.5 mL/ha	Apply when insects or damage first appears. Avoid spraying during flowering.
Pre-Harvest Interval (PHI): 14 days DO NOT APPLY MORE THAN 3 TIMES PER YEAR. Apply to lowbush blueberries in 100-200 litres of water per hectare. Apply to highbush blueberries in 1200-1500 litres of water per hectare. Minimum interval between applications: 5 days.		

BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CAULIFLOWER

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Imported Cabbageworm, Cabbage Looper, Diamondback Moth	75-100 mL/ha in 350-550 L of water per ha.	GROUND Apply when insects are present or signs of insect feeding are visible.
Flea Beetle (Cabbage Only)	75-100 mL/ha in 350-550 L of water per ha.	Apply when insects are present, and actively feeding. Under severe pressure, application should also be made to a 15-metre strip along fence rows around the field.
Pre-Harvest Interval (PHI): 1 day (brussel sprouts), 3 days (broccoli, cabbage, cauliflower) Minimum interval between applications: 10 days; DO NOT APPLY MORE THAN 8 TIMES PER YEAR		

CORN (FIELD AND SEED)

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
European Corn Borer	125-150 mL/ha in at least 240 L of water per ha.	GROUND Apply when egg masses begin to hatch, but no later than when the first pinhole feeding is seen on the leaves. Direct spray into the whorl of the plant. Repeat at 5-8 day intervals. For control of second generation, direct spray at ear zone.
DO NOT APPLY MORE THAN 3 TIMES PER YEAR.		

NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS: The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Bayer CropScience Inc. under the User Requested Minor Use Label Expansion program. For these uses, Bayer CropScience Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Western Bean Cutworm	125-150 mL/ha in at least 240 L of water per ha.	GROUND Application should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring. Repeat at 5-8 day intervals.

Pre-Harvest Interval (PHI): 1 day
DO NOT APPLY MORE THAN 3 TIMES PER YEAR.

CORN (SWEET)

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Western Bean Cutworm	125-150 mL/ha in at least 240 L of water per ha	GROUND Application should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring. Repeat at 5-8 day intervals
	125-150 mL/ha in 11-22 L/ha of water	AERIAL Read instructions for Aerial Application in Section 9.
European Corn Borer	125-150 mL/ha in at least 240 L of water per ha	GROUND Apply when egg masses begin to hatch, but no later than when the first pinhole feeding is seen on the leaves. Direct spray into the whorl of the plant. For control of second generation, direct spray at ear zone. In situations where pest monitoring indicates repeat applications are required, it is recommended that Decis 100 EC Insecticide be alternated with other insecticides.
Corn Earworm	125-150 mL/ha in at least 240 L of water per ha	Apply when insects are present in the silks. Follow provincial spray calendar recommendations.
		AERIAL Read instructions for Aerial Application in Section 9.
European Corn Borer, Corn Earworm	125-150 mL/ha in 11-22 L/ha of water.	

Pre-Harvest Interval (PHI): 5 days
DO NOT APPLY MORE THAN 2 TIMES PER YEAR; only one of which may be by air.

CROP SUBGROUP 6C DRIED SHELLED PEA AND BEAN (EXCEPT SOYBEAN):

Bean (includes grain lupin, sweet lupin, white lupin and white sweet lupin), bean (includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean and wax bean), bean (includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, yardlong bean), broad bean (fava bean), chickpea (garbanzo bean), guar, lablab bean (hyacinth bean), lentil, pea (includes dwarf pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea), pigeon pea.

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Grasshopper	50-75 mL/ha	Apply when insects are present as young hoppers or signs of insect damage are evident. Apply when the Grasshoppers are in the 2-4 nymphal stage. Best control will be achieved when application is made prior to wing development.
Suppression of Pea Leaf Weevil	75 mL/ha	Make the first application after emergence but prior to the 5 to 6 node stage. Apply while the adults are still present on the plants, before egg laying begins.
Cutworms	100 mL/ha	Apply when larvae are present and feeding. Do not disturb the soil after application.
Lygus Bug	100 mL/ha	Apply when the insects are present at economic thresholds.
Pre-Harvest Interval (PHI): 7 days Maximum 3 applications per year. Minimum interval between applications: 5-7 days by ground application.		
Application method: Ground or aerial. Ground application: 100 to 200 L of water per hectare Aerial application: Apply in minimum spray volume of 22 L/ha. Read special instructions for aerial application in Section 9. Minimum interval between applications: 5-7 days.		

CROP SUBGROUP 20A RAPESEEDS:

Borage, Canola, Crambe, Cuphea, Echium, Flax seed, Gold of Pleasure, Hare's ear mustard, Lesquerella, Lunaria, Meadowfoam, Milkweed, Mustard seed, Oil radish, Poppy seed, Rapeseed, Sesame, Sweet rocket, Cultivars, varieties, and/or hybrids of these commodities

INSECTS	RATE	RECOMMENDATIONS
Beet Webworm	50-75 mL/ha	Apply by ground only when larvae are present and actively feeding. Use the higher rate when infestations are high or canopy is thick.

Bertha Armyworm	50-75 mL/ha	Apply by air only when larvae are present and actively feeding. Use the higher rate when infestations are high or canopy is thick.
Cabbage Seedpod Weevil	100 mL/ha	For control of adult weevil only. Apply when adults are seen on flower buds or developing pods. Must apply prior to egg laying. Consult extension experts for economic threshold.
Clover Cutworm	50-75 mL/ha	Apply when larvae are present and feeding. Do not disturb the soil after application. Apply in sufficient water to ensure thorough coverage.
Cutworms	100 mL/ha	Apply when larvae are present and feeding. Do not disturb the soil after application. Under severe insect pressure, application should also be made to a 15-metre strip along fence- rows around the field. Apply in sufficient water to ensure thorough coverage.
Diamondback Moth	50-75 mL/ha	Apply by air only when insects are actively feeding or when Provincial Letters recommend spraying.
Flea Beetles	50-75 mL/ha	Apply when insects are present. Decis 100 EC Insecticide controls only those insects present. Application should be made when the beetles are actively feeding. Under severe pressure, application should also be made to a 15- metre strip along fence rows around the field.
Grasshoppers	50-75 mL/ha	Apply when signs of insect damage are evident and grasshoppers are in the 2-4 nymphal stage. Best control will be achieved when application is made prior to wing development. The higher rate should be used when the proportion of mature and late nymphal stages in the grasshopper population are high and spray penetration is inhibited by dense crop canopy. Under severe insect pressure application should also be made to a 15-metre strip along fence rows around the field.
Lygus Bugs	75 mL/ha	Apply when lygus bugs are seen feeding on the buds, flowers and developing pods. Consult extension experts for economic threshold.
Swede Midge	75-100 mL/ha	Begin applications when a significant population of adult midge are observed as determined by local monitoring. Under heavy pressure use the higher rate. Thorough coverage is important to obtain optimum efficacy.
<p>Pre-Harvest Interval (PHI): 7 days DO NOT APPLY MORE THAN 3 TIMES PER YEAR. If 3 applications are used, only the first or second application can be at 100 mL/ha. DO NOT apply more than 250 mL/ha per year. Minimum interval between applications: 5-7 days by ground application.</p>		

Application method: Ground or aerial.
 Ground application in 100 L of water per hectare.
 Aerial application in 20-45 L of water per hectare.
 Read special instructions for aerial application in Section 9.
 Minimum interval between applications: 5-7 days.

KALE

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Cabbage Looper, Diamondback Moth, Imported Cabbageworm, Purplebacked Cabbageworm	100 mL/ha in 300-400 L of water per ha	GROUND Apply when insects are present or signs of insect feeding are visible. Minimum interval between applications: 10 days. DO NOT APPLY MORE THAN 8 TIMES PER YEAR.

ONIONS

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Onion Thrip	100 mL/ha in 200-500 L/ha of water	GROUND Apply as foliar spray mid-season at proper thrip threshold.
Pre-Harvest Interval (PHI): 5 days DO NOT APPLY MORE THAN ONCE PER YEAR.		

PEACHES

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Peach Twig Borer, Oriental Fruit Moth	100 mL/ha (34mL /1000 L of water)	GROUND Application must occur when insect is visibly present.
Pre-Harvest Interval (PHI): 1 day DO NOT APPLY MORE THAN ONCE PER YEAR. DO NOT apply when peach trees are in bloom.		

PEARS

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Pear Psylla (nymphs & adults)	175 mL/ha (58mL/ 1000 L of water)	GROUND Apply when the nymphs and adults first appear. Follow calendar recommendations. Repeated applications are not advised where integrated pest management is in effect because severe reductions of beneficial arthropods will result.
Pear Psylla over wintering adults - B.C. only	100 mL/ha (34 mL/1000 L of water)	Apply when the insect first appears in the spring.
Oriental Fruit Moth*	100-125 mL/ha in 3000 L of water	Begin applications when treatment threshold (peak egg hatch) has been reached as indicated by monitoring with pheromone traps in conjunction with degree days. Consult your local

extension specialist for advice. Adequate spray coverage is essential for optimum control. The emergence of 3rd or 4th generation of OFM is less synchronized than the 1st or 2nd generations. Alternate with other insecticides for different generations of OFM to delay the insecticide resistance development in the pest populations.

Pre-Harvest Interval (PHI): 7 days

DO NOT APPLY MORE THAN 3 TIMES PER YEAR.

Decis 100 EC Insecticide does not control the hard shell of Pear Psylla.

* DO NOT apply more than once every 12 days.

* Applications timed for other pests may reduce the number of applications required for this pest.

* For use in Ontario only.

PEPPERS

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
European Corn Borer	125-150 mL/ha in 200-500 L/ha of water	GROUND Apply when egg masses begin to hatch or when first signs of insect feeding are evident. Repeat at 5-7 day intervals.

Pre-Harvest Interval (PHI): 3 days

DO NOT APPLY MORE THAN 3 TIMES PER YEAR.

POTATOES

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Colorado Potato Beetle, Tarnished Plant Bug, Leafhoppers	50-75 mL/ha in 200-500 L of water per ha	GROUND Apply when insects are present or signs of insect feeding are evident. Repeat as necessary to a maximum of 3 applications per year. Use the higher rate under severe infestations.
Potato Flea Beetle	50-75 mL/ha in 200-500 L of water per ha	Apply when first signs of insects appear and damage is visible. Decis 100 EC Insecticide controls only those insects present. Under severe Flea Beetle populations, application should also be made to a 15 metre strip along fence rows around the field.
Potato Aphid, Buckthorn Aphid	125 mL/ha in 300-400 L/ha of water	Apply when insects are present or signs of insect feeding are visible. Repeat if necessary to a maximum of 2 applications per year. Decis 100 EC Insecticide will NOT control Green Peach Aphid.
Tuber Flea Beetle	75-100 mL/ha in 600 L of water per ha	Apply to control first generation of adult flea beetle. Repeat if necessary.
European Corn Borer	75-125 mL/ha in 300-500 L/ha of water	Scout for European corn borer egg masses to determine when egg laying and egg hatch is occurring. Apply Decis 100 EC Insecticide to coincide with peak egg hatch. A second

Colorado Potato Beetle, Tarnished Plant Bug, Leafhopper, Potato Flea Beetle	50–75 mL/ha in 20 to 22 L of water per ha.	application 5-7 days later may be required during periods of extended egg-laying. Use the high rate to control heavy infestations. AERIAL Apply a maximum of 2 times per year by air if required. Read special instructions for aerial application in section 9.
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Pre-Harvest Interval (PHI): 1 day
 Minimum interval between applications: 5-7 days.
 DO NOT apply to adjacent unregistered crops.
 DO NOT APPLY MORE THAN 250 mL product/ha/year by ground, or 150 mL product/ha/year by air.
 RESISTANCE: Colorado Potato Beetle is known to develop resistance to insecticides after repeated use. As with any insecticide, the use of this product should conform to resistance management strategies established for the use area. The use of Decis 100 EC Insecticide must be alternated with insecticides with a different mode of action. Consult your agricultural advisor for resistance management strategies and recommended pest management practices for your area.

RANGELAND, PASTURES*

NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS: The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Bayer CropScience Inc. under the User Requested Minor Use Label Expansion program. For these uses, Bayer CropScience Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Grasshoppers	50-75 mL/ha in 100-200 L of water per ha. 75 mL/ha in 11 – 22 L of water per ha.	GROUND Apply when insects are young or signs of insect damage are evident. Apply when the grasshoppers are in the 2-4 nymphal stage. Best control will be achieved when application is made prior to wing development. DO NOT APPLY TO ADJACENT UNREGISTERED CROPS. The higher rate should be used when the proportion of mature and late nymphal stages in the population are high and/or spray penetration is inhibited by dense crop canopy. *Under severe insect pressure application should also be made to fence row and roadsides as a 15 metre strip. AERIAL (Rangeland, Pastures) Use as directed and follow special instructions for aerial application in Section 9.

DO NOT APPLY MORE THAN TWO TIMES PER YEAR BY AIR.
 DO NOT APPLY DECIS 100 EC INSECTICIDE MORE THAN 3 TIMES PER YEAR.
 For example, 3 ground applications or 2 ground/1 air or 2 air/1 ground.
 Minimum interval between applications: 5-7 days.

ESTABLISHED RED CLOVER (for seed production only)

NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS: The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Bayer CropScience Inc. under the User Requested Minor Use Label Expansion program. For these uses, Bayer CropScience Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Suppression of lesser clover leaf weevil	125 mL/ha in 100-300 L of water per ha.	GROUND Apply when insects are present. Apply 2 times at a 14 day interval, at early vegetative stage and when clover is budding. Use sufficient water to ensure thorough coverage. More water may be required when dense foliage is present and depending on the type of spray equipment used. Thorough wetting of all plants is essential for good results

DO NOT APPLY MORE THAN 2 TIMES PER YEAR. DO NOT use treated crop for feed or forage.
DO NOT apply by aerial application equipment.

SASKATOON BERRY

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Sawfly, Lygus Bug (Tarnished Plant Bug), Hawthorn Weevil, Apple Curculio, Leaf Miner, Saskatoon Bud Moth	1 mL in 4.5 L water for 100 m ² of orchard face row. (Apply mixture to both sides of each row.)	GROUND Apply three times per year, once prior to flowering, once at early flowering, and once after petal drop, observing the pre-harvest interval of 21 days. The insect species controlled will appear at different times of the growing season: Saskatoon Bud Moth & Lygus Bug at inflorescence bud bread (green tip) to tight bud cluster; Sawfly at 25% bloom; Apple Curculio & Hawthorn Weevil at 5-10 days after petal fall. Growers are encouraged to apply Decis 100 EC Insecticide when the insect pest of concern first appears in sufficient numbers to cause economic damage.

Pre-Harvest Interval (PHI): 21 days

SHELTERBELTS

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Caragana Aphid, Eastern Spruce Budworm, Spruce Coneworm, Spring Spruce Needle Moth, Spotted Poplar Aphid, Forest Tent Caterpillar, Prairie Tent Caterpillar	45 mL per 100 L of water applied until runoff.	GROUND Apply when insects are actively feeding for best results. Thorough coverage is critical for control.
Forest Tent Caterpillar	50-75 mL/ha in 11 – 22 L of water per ha.	AERIAL Apply when larvae are actively feeding. Use the higher rate when there are large numbers of larvae present and/or heavy foliage which may prevent penetration.
Blister Beetle, Grey Willow Leaf Beetle	15 mL per 100 L of water applied until runoff.	GROUND Apply when insects are actively feeding for best results. Thorough coverage is critical for control.
Willow Sawfly	9 mL per 100 L of water applied until runoff.	GROUND Apply when larvae are actively feeding for best results. Thorough coverage is critical for control.
DO NOT APPLY MORE THAN ONCE PER YEAR.		

CHOCKECHERRY SHELTERBELTS

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Prairie Tent Caterpillar	46 mL product/1000 L water	Apply prior to flowering when tents are visible, generally mid to late May
Ugly Nest Caterpillar	46 mL product/1000 L water	Apply after flowering when tents are visible, generally early to mid June
Fruittree Leafroller	46 mL product/1000 L water	Apply after flowering when damage is first noted, generally early to mid June
DO NOT APPLY MORE THAN ONCE PER YEAR. Apply as a foliar spray; ground application only. Apply so leaves are wet but not dripping.		

STRAWBERRIES

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Tarnished Plant Bug	100 mL/ha (34 mL/1000 L of water)	GROUND Apply when insects are present or when signs of insect feeding are visible. Repeat if necessary. Decis 100 EC Insecticide will NOT control Strawberry Weevil.
Pre-Harvest Interval (PHI): 14 days DO NOT APPLY MORE THAN 2 TIMES PER YEAR. Minimum interval between applications: 5 days.		

SUNFLOWERS

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Sunflower Beetle	50 mL/ha in 100 -200 L of water per ha.	GROUND ADULTS: Apply when the insect is present or signs of insect damage appear. Crops should be sprayed when in the cotyledon to 2-leaf stage.
	50 mL/ha in 11 - 22 L of water per ha.	AERIAL ADULTS & LARVAE: Apply once per year when the insect is present or signs of insect damage appear. Heads should be carefully examined for larvae. Application at dusk when insects are actively feeding is preferable. Read instructions for Aerial Application in Section 9.
Pre-Harvest Interval (PHI): 70 days DO NOT APPLY MORE THAN ONCE PER YEAR IN FIELD.		

TOBACCO

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Cutworm	2 mL in 15 L of water per 100 m ² of seedbed	GREENHOUSE Apply when damage first appears. Plants should be sprayed in the evening. DO NOT APPLY MORE THAN 3 TIMES PER YEAR IN GREENHOUSE
	50 mL/ha in 200-500 L of water per ha	GROUND - RYE OR WHEAT COVER CROP Apply when insects are present and feeding. This is usually in the evening. Apply at least 5 days prior to plowing.
	100-200 mL/ha in 200-500 L of water per ha	PRE-PLANT SOIL TREATMENT Apply at least 5 days prior to transplanting. Do not disturb the soil before transplanting. Use the higher rate when soil conditions are dry.
	100 mL/ha in 200-500 L of water as a broadcast application	POST-PLANTING TREATMENT Apply when insects are present or there are signs of insect damage.
Pre-Harvest Interval (PHI): 45 days DO NOT APPLY MORE THAN ONCE PER YEAR IN FIELD Under severe insect pressure, application should also be made to fence-rows and a 15 metre strip into nearby cover crops.		

TOMATOES

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Colorado Potato Beetle	50-75 mL/ha in 200 - 500 L of water per ha.	GROUND Apply when insects are present or signs of insect feeding are evident. Use the higher rate under severe infestation.
<p>Pre-Harvest Interval (PHI): 3 days DO NOT APPLY MORE THAN 3 TIMES PER YEAR. Minimum interval between applications: 5 days. RESISTANCE: Colorado Potato Beetle is known to develop resistance to insecticides after repeated use. As with any insecticide, the use of this product should conform to resistance management strategies established for the use area. The use of Decis 100 EC Insecticide must be alternated with insecticides with a different mode of action. Consult your agricultural advisor for resistance management strategies and recommended pest management practices for your area.</p>		

WHEAT, BARLEY, OATS, SUGARBEETS

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Cutworm	100 mL/ha in 100 L of water per ha.	GROUND OR AERIAL Apply when larvae are present and feeding. Do not disturb the soil after application. Under severe insect pressure, application should also be made to a 15-metre strip along fence- rows around the field. DO NOT APPLY TO ADJACENT CROPS. Follow special instructions for aerial application in Section 9.
<p>Pre-Harvest Interval (PHI): 40 days (wheat, barley), 31 days (oats), 100 days (sugarbeets) DO NOT APPLY MORE THAN 3 TIMES PER YEAR. Decis 100 EC Insecticide may be used for a maximum of 2 aerial applications per year. Minimum interval between applications: 5-7 days.</p>		

WHEAT, BARLEY, OATS

INSECTS	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Grasshopper	50-75 mL/ha in 100-200 L of water per ha.	GROUND Follow provincial forecast. Apply when insects are present as young hoppers or signs of insect damage are evident. Apply when the Grasshoppers are in the 2-4 nymphal stage. Best control will be achieved when application is made prior to wing development. Under severe insect pressure application should also be made to a 15-metre strip along fence rows around the field. DO NOT APPLY TO UNREGISTERED CROPS. The higher rate should be used when the proportion of mature and late nymphal stages in the population is high and spray penetration is inhibited by dense crop canopy.
	75 mL/ha in 11 – 22 L of water per ha.	AERIAL Use as directed and follow special instructions for aerial application in Section 9. Do not make aerial application of tank-mix of Decis 100 EC Insecticide with Buctril M herbicide and Puma Advance herbicide.

Pre-Harvest Interval (PHI): 40 days (wheat, barley), 31 days (oats)
 DO NOT APPLY MORE THAN 3 TIMES PER YEAR.
 Decis 100 EC Insecticide may be used for a maximum of 2 aerial applications per year.
 Minimum interval between applications: 5-7 days.

COMMERCIAL GREENHOUSE FLORICULTURE CROPS

(Chrysanthemum, Cineraria, Easter Lilies, Geraniums)

INSECT	RATE	METHOD OF APPLICATION AND RECOMMENDATIONS
Western Flower Thrip	17.5-25 mL per 100 L of water	Foliar Application: Apply as a high volume spray using a compressed air sprayer. Spray to run-off to ensure complete coverage. Three (3) applications at 5-7 day intervals may be necessary to achieve control. Consult local greenhouse advisors for timing, identification of thrip species and information on rotation of materials to reduce resistance possibilities. PRECAUTION: All species and varieties have not been tested. When treating large numbers of plants of a single variety, treat a few plants and observe prior to full-scale application.

Pre-Harvest Interval (PHI): 7 days
 DO NOT APPLY MORE THAN 3 TIMES PER YEAR.
 DO NOT apply Decis 100 EC Insecticide with fogging machines.
 RE-ENTRY PERIOD: Allow 12 hours between application and re-entry into treated area. When working with treated foliage, workers should wear chemical resistant gloves.

Section 9: Application Instructions and Limitations

Where a rate range is given in the Directions For Use, the higher rate should be utilised:

1. when the crop canopy is dense and foliage is inhibiting spray penetration.
2. when a number of insect growth stages are present (for example 1st through 5th nymphal stages of grasshoppers OR larvae and adults of Colorado Potato Beetle).
3. when insect populations are very high.

Unless otherwise stated, apply Decis 100 EC Insecticide when insects first appear and repeat as required to maintain control. Use sufficient water to ensure thorough coverage. More water may be required when dense foliage is present and depending on the type of spray equipment used. Thorough wetting of all plants is essential for good results. It is suggested that provincial spray calendar recommendations be followed.

Refer to AERIAL APPLICATION section of this label for appropriate cautions when using aerial application equipment.

Use the rates listed above for both ground and aerial application. Decis 100 EC Insecticide may be applied by air only on crops specified for aerial use. See AERIAL APPLICATION section of this label for adjustment of water volumes.

Not for use by homeowners or other uncertified users.

Not permitted for application using handheld mistblower and/or fogger machine (handheld and automated) in greenhouses.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.

AERIAL APPLICATION:

Decis 100 EC Insecticide may be applied by aircraft to Wheat, Barley, Oats, Crop Subgroup 6C, Crop Subgroup 20A, Sunflowers, Sugarbeets, Shelterbelts (Forest Tent Caterpillar only), Potatoes, Corn (sweet), Range land, and Pastures.

Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply when wind speed is greater than 8 km/h at the site of application. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Air-induction nozzles must be used for the ground application of this product. Boom height must be 60 cm or less above the crop or ground.

Airblast application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. **DO NOT** apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

Aerial application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply when wind speed is greater than 8 km/h at flying height at the site of application. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium-coarse classification. DO NOT apply under weather conditions of less than 50% relative humidity and temperatures greater than 20°C. Nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotorspan.

USE PRECAUTIONS:

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the *National Aerial Pesticide Application Manual*, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides. Do not apply to any body of water. Avoid drifting of

spray onto any body of water or other non-target areas. Specified buffer zones should be observed. Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Do not apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

OPERATOR PRECAUTIONS:

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted. It is desirable that the pilot has communication capabilities at each treatment site at the time of application. The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label. All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

BUFFER ZONES:

Use of the following spray methods or equipment DOT NOT require a buffer zone: hand-held or backpack sprayer and spot treatments.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands), and estuarine/marine habitats.

Method of application	Crop	Buffer Zones (metres) Required for the Protection of:				
		Freshwater Habitat of Depths:		Estuarine/Marine Habitat of Depths:		Terrestrial Habitat:
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	Alfalfa, red-clover established (for seed production only), Potato	1	1	35	15	1
	Asparagus, Crop Subgroup 6C, Crop Subgroup 20A, strawberries, wheat, barley, oat, sugarbeet	1	1	30	15	1
	Blueberry, rangeland, pasture, tomato	1	1	25	10	0
	Broccoli, Brussel sprouts, cabbage, cauliflower, kale	2	1	30	15	1
	Corn (field, seed and sweet), pepper	1	1	45	20	1
	Onion, tobacco (post plant)	1	1	30	15	0
	Shelterbelt	4	2	120	120	1
	Chokecherry shelterbelt	1	1	40	20	1

	Sunflower, tobacco (cover crop)		1	1	15	10	0
	Tobacco (pre-plant)		1	1	55	25	1
Airblast	Apple	Early Season	45	35	80	75	2
		Late Season	35	25	70	65	2
	Pear	Early Season	45	35	85	75	3
		Late Season	35	25	75	65	2
	Peach	Early Season	30	20	80	70	0
		Late Season	20	10	70	60	0
	Blueberry, Saskatoon Berry	Early Season	40	30	80	70	2
		Late Season	30	20	70	60	1
	Shelterbelt	Early Season	55	45	105	95	10
		Late Season	45	35	95	85	5
Chokecherry shelterbelt	Early Season	35	25	85	75	1	
	Late Season	25	15	75	65	1	
Aerial	Crop Subgroup 6C	Fixed wing	80	25	800	800	10
		Rotary wing	65	20	800	800	10
	Sweet corn	Fixed wing	40	15	800	800	1
		Rotary wing	30	10	800	800	1
	Crop Subgroup 20A	Fixed wing	65	20	800	800	10
		Rotary wing	50	15	800	800	10
	Potato, rangeland, pasture	Fixed wing	35	10	800	800	1
		Rotary wing	25	10	800	800	1
	Wheat, barley, oats, sugarbeet	Fixed wing	50	15	800	800	10
		Rotary wing	45	10	800	800	10
	Shelterbelt	Fixed wing	15	10	800	800	0
		Rotary wing	10	5	800	800	0
Sunflower	Fixed wing	10	5	800	800	0	
	Rotary wing	10	5	800	675	0	

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The buffer zones for this product CANNOT be modified using the Buffer Zone Calculator on the Pest Management Regulatory Agency web site.

Section 10: Mixing Instructions

The volumes of water may vary greatly, depending on the equipment, the crop, and agricultural conditions. The volumes of water to be used will vary between 11 and 1,000 litres per hectare.

Ensure spray tank is thoroughly clean. Fill sprayer half-full with clean water. Add product while agitating. Add the remaining amount of water.

TANK MIX COMBINATIONS

Decis 100 EC Insecticide can be tank mixed with a number of herbicides for the control of insect pests (specified on this label) and annual grassy and broadleaf weeds (see list of susceptible weeds on the respective herbicide labels). Carefully read respective labels for proper use. The following herbicides are compatible:

PARDNER® BANVEL® 2,4-D BUCTRIL® M MCPA
 PUMA ADVANCE® PUMA ADVANCE® with BUCTRIL® M

Decis 100 EC Insecticide can be tank mixed with Puma Advance for the control of grasshoppers and annual grassy weeds or with Puma Advance and Buctril M for the control of grasshoppers and annual grassy weeds and broadleaf weeds in SPRING WHEAT AND DURUM WHEAT ONLY. The durum wheat cultivar “Plenty” may sustain an elevated level of injury following application of Decis 100 EC Insecticide with Puma Advance and Buctril M.

Spray mixture must be constantly agitated throughout application. Do not allow the spray mixture to stand in the spray tank for more than 4 hours after mixing.

When applied as a tank-mix combination, read and observe all label directions, including rates, personal protective equipment, restrictions and precautions for each product used in the tank-mix. Always use in accordance with the most restrictive label restrictions and precautions.

Section 11: Pre-Harvest Interval
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Crop	Pre-harvest Interval (days)
Alfalfa	20
Apples	1
Barley	40
Blueberries	14
Broccoli	3
Brussels Sprouts	1
Cabbage	3
Crop Subgroup 20A	7
Crop Subgroup 6C	7
Cauliflower	3
Corn (field and seed)	1
Corn (sweet)	5
Floriculture	7
Kale	1
Mustard	14
Oats	31
Onions	5

Peaches	1
Pears	7
Peppers	3
Potatoes	1
Strawberries	14
Sunflowers	70
Tobacco	45
Tomatoes	3
Wheat	40

Section 12: Resistance Management Recommendations
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For resistance management, please note that Decis 100 EC Insecticide contains a Group 3 insecticide. Any insect population may contain individuals naturally resistant to Decis 100 EC Insecticide and other Group 3 insecticides. The resistant individuals may dominate the insect population if this group of insecticides is used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance:

- Where possible, rotate the use of Decis 100 EC Insecticide or other Group 3 insecticides with different groups that control the same pests in a field.
- Use tank mixtures with insecticides from a different group that is effective on the target pest when such use is permitted.
- Insecticide use should be based on an integrated pest management (IPM) program that includes scouting and record keeping and considers cultural, biological, and other chemical control practices;
- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.

For further information or to report suspected resistance, contact Bayer CropScience at 1-888-283-6847.

FOR MORE INFORMATION CONTACT:
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 Calgary, Alberta
 T2C 3G3
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DISCLAIMER: The user assumes the risk to persons or property that arises from any use of this product in a way that is inconsistent with the directions on the label.

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