

62719-442

7/11/2012

1 of 52



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

WASHINGTON D C 20460

OFFICE OF  
CHEMICAL SAFETY AND  
POLLUTION PREVENTION

**July 11, 2012**

**Jennifer Lukus**  
**US/Canadian Regulatory Affairs Manager**  
**Dow Agrosciences LLC**  
**9330 Zionsville Road**  
**Indianapolis, IN 46268**

**Subject** Amendment of master label and addition of supplemental labels in conjunction with minor use (IR 4) petition Citrus (conversion from a regional to a national use) and Root vegetables (other than sugar beet reducing PHI to 1 day) and other minor changes

**Product Name** Intrepid 2F

**EPA Reg No** 62719 442

**EPA Decision No** 445961

**Date of Submission** December 10 2010

**OPP Received Date** February 28 2011

Dear Ms Lukus

The Agency has reviewed your submissions in connection with registration under the Federal Insecticide Fungicide and Rodenticide Act (FIFRA) as amended. The labeling referred to above submitted in connection with registration under the FIFRA Section 3(c)(7)(A) is acceptable provided that you


- 1 Fulfill outstanding data requirements by 18 September 2012 including
  - a OCSPP (formerly OPPTS) 890 1100 Amphibian metamorphosis which is a part of EPA s Tier I Endocrine Disruption Screening Program Assays
  - b Monitoring of surface water and sediment in a representative sample of high use areas in proximity to surface water
  - c A honeybee brood study

If these conditions are not met the registration will be subject to cancellation in accordance with FIFRA Section 6 and/or may be found to be misbranded and referred to OECA for enforcement Your release for shipment of the product constitutes acceptance of these conditions

A stamped copy is enclosed for your records If you have any questions you may contact Clayton Myers at (703) 347 8874 or [myers.clayton@epa.gov](mailto:myers.clayton@epa.gov)

Sincerely



 Mark Suarez Product Manager  
Registration Division Insecticide Branch  
(7505P)

Enclosures

Stamped label dated July 11 21012

An Agency/Reviewer note to file dated July 11 2012

Agency Approved FR Notice for publication of revised pesticide tolerances dated June 29 2012

Agency Memorandum/Ecological Risk Assessment for Proposed IR 4 New Uses of Methoxyfenozide dated November 10 2011

(Base label)

# Intrepid<sup>®</sup> 2F

## Insecticide

<b>Group</b>	<b>18</b>	<b>INSECTICIDE</b>
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Active Ingredient		
methoxyfenozide	Benzoic acid 3 methoxy	
	2 methyl 2 (3 5 dimethylbenzoyl) 2	
	(1 1 dimethylethyl) hydrazide	22 6%
Other Ingredients		77 4%
Total		100 0%

ACCEPTED  
 With COMMENTS  
 In EPA Letter Dated  
 JUL 11 2012  
 Under the Federal Insecticide, Fungicide  
 and Rodenticide Act, As amended, for the  
 pesticide Registered under EPA Reg No  
 62719-442

Contains 2 lb active ingredient per gallon

Keep Out of Reach of Children

## CAUTION

### Precautionary Statements

#### Hazards to Humans and Domestic Animals

Harmful If Absorbed Through Skin Or Inhaled

Avoid contact with eyes skin or clothing Avoid breathing spray mist

#### Personal Protective Equipment (PPE)

Applicators and other handlers must wear

- Long sleeved shirt and long pants
- Chemical resistant gloves made of any waterproof material
- Shoes plus socks

Follow manufacturer s instructions for cleaning/maintaining PPE If no such instructions for washables exists use detergent and hot water Keep and wash PPE separately from other laundry

#### Engineering Controls

When handlers use closed systems enclosed cabs or aircraft in a manner that meet the requirements listed in the Worker Protection Standards (WPS) for agricultural pesticides [40 CFR 170 240(d) (4 6)] the handler PPE requirements may be reduced or modified as specified in the WPS

### User Safety Recommendations

Users should

- Wash hands before eating drinking chewing gum using tobacco or using the toilet
- Remove contaminated clothing immediately if pesticide gets inside Then wash thoroughly and put on clean clothing

### First Aid

If Inhaled Move person to fresh air If person is not breathing call 911 or an ambulance then give artificial respiration preferably mouth to mouth if possible Call a poison control center or doctor for further treatment advice

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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 center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

**Environmental Hazards**

Drift and runoff from applications of this product may be hazardous to sensitive aquatic invertebrates in water bodies adjacent to the treatment area. For terrestrial uses, do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Methoxyfenozide can contaminate surface water through spray drift. Under some conditions, methoxyfenozide may also have a high potential for runoff into surface water (primarily via dissolution in runoff water) for several months post application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlying extremely shallow groundwater, areas with in-field canals or ditches that drain to overlying tile drainage systems that drain to surface water.

Do not cultivate within 10 feet of aquatic areas to allow growth of a vegetative filter strip.

Do not apply by ground within 25 feet or by air within 150 feet of lakes, reservoirs, rivers, permanent streams, marshes, or natural ponds, estuaries, and commercial fish farm ponds.

**Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to the label booklet under Agricultural Use Requirements in the Directions for Use section for information about this standard.

**(Storage and Disposal for rigid containers 5 gal or less)**

**Storage and Disposal**

Do not contaminate water, food, or feed by storage and disposal.

**Pesticide Storage:** Store in a cool, dry, well-ventilated area, but not below 32°F.

**Pesticide Disposal:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**Container Handling:** Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

**(Storage and Disposal for refillable rigid containers larger than 5 gal)**

**Storage and Disposal**

Do not contaminate water food or feed by storage and disposal  
**Pesticide Storage** Store in a cool dry well ventilated area but not below 32°F  
**Pesticide Disposal** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility  
**Container Handling** Refillable container Refill this container with pesticide only Do not reuse this container for any other purpose  
 Cleaning the container before final disposal is the responsibility of the person disposing of the container  
 Cleaning before refilling is the responsibility of the refiller To clean the container before final disposal empty the remaining contents from this container into application equipment or a mix tank Fill the container about 10% full with water and if possible spray all sides while adding water If practical agitate vigorously or recirculate water with the pump for two minutes Pour or pump rinsate into application equipment or rinsate collection system Repeat this rinsing procedure two more times Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration or by other procedures allowed by state and local authorities

**(Storage and Disposal for nonrefillable rigid containers larger than 5 gal)**

**Storage and Disposal**  
 Do not contaminate water food or feed by storage and disposal  
**Pesticide Storage** Store in a cool dry well ventilated area but not below 32°F  
**Pesticide Disposal** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility  
**Container Handling** Nonrefillable container Do not reuse or refill this container  
 Triple rinse or pressure rinse container (or equivalent) promptly after emptying **Triple rinse** as follows Empty the remaining contents into application equipment or a mix tank Fill the container 1/4 full with water Replace and tighten closures Tip container on its side and roll it back and forth ensuring at least one complete revolution for 30 seconds Stand the container on its end and tip it back and forth several times Turn the container over onto its other end and tip it back and forth several times Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal Repeat this procedure two more times **Pressure rinse** as follows Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal Insert pressure rinsing nozzle in the side of the container and rinse at about 40 psi for at least 30 seconds Drain for 10 seconds after the flow begins to drip Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration or by other procedures allowed by state and local authorities

**Refer to label booklet for Directions for Use**

**Notice** Read the entire label Use only according to label directions **Before using this product read Warranty Disclaimer Inherent Risks of Use and Limitation of Remedies at end of label booklet If terms are unacceptable return at once unopened**

In case of emergency endangering health or the environment involving this product call 1 800 992 5994

Agricultural Chemical Do not ship or store with food feeds drugs or clothing

**Shake Well Before Use – Avoid Freezing**

EPA Reg No 62719 442

EPA Est \_\_\_\_\_

®Trademark of Dow AgroSciences LLC

**Produced for  
Dow AgroSciences LLC  
9330 Zionsville Road  
Indianapolis IN 46268**

**Net Contents** \_\_

70852

(Cover shipping container)

# Intrepid<sup>®</sup> 2F

## Insecticide

<b>Group</b>	<b>18</b>	<b>INSECTICIDE</b>
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### Active Ingredient

methoxyfenozide Benzoic acid 3 methoxy  
 2 methyl 2 (3 5 dimethylbenzoyl) 2  
 (1 1 dimethylethyl) hydrazide 22 6%

Other Ingredients 77 4%

Total 100 0%

Contains 2 lb active ingredient per gallon

### Keep Out of Reach of Children

## CAUTION

### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR Part 170 Refer to the label booklet under Agricultural Use Requirements in the Directions for Use section for information about this standard

**Refer to inside of label booklet for additional precautionary information including Directions for Use**

**Notice** Read the entire label Use only according to label directions **Before using this product read Warranty Disclaimer Inherent Risks of Use and Limitation of Remedies at end of label booklet If terms are unacceptable return at once unopened**

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Inherent Risks of Use  
Limitation of Remedies

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**Precautionary Statements**

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**Hazards to Humans and Domestic Animals****CAUTION**

**Harmful If Absorbed Through Skin Or Inhaled**

**Avoid contact with eyes skin or clothing Avoid breathing spray mist**

**Personal Protective Equipment (PPE)**

**Applicators and other handlers must wear**

- Long sleeved shirt and long pants
- Chemical resistant gloves made of any waterproof material
- Shoes plus socks

Follow manufacturer s instructions for cleaning/maintaining PPE If no such instructions for washables exists use detergent and hot water Keep and wash PPE separately from other laundry

**Engineering Controls**

When handlers use closed systems enclosed cabs or aircraft in a manner that meet the requirements listed in the Worker Protection Standards (WPS) for agricultural pesticides [40 CFR 170 240(d) (4 6)] the handler PPE requirements may be reduced or modified as specified in the WPS

**User Safety Recommendations**

Users should

- Wash hands before eating drinking chewing gum using tobacco or using the toilet
- Remove contaminated clothing immediately if pesticide gets inside Then wash thoroughly and put on clean clothing

**First Aid**

**If Inhaled** Move person to fresh air If person is not breathing call 911 or an ambulance then give artificial respiration preferably mouth to mouth if possible Call a poison control center or doctor for further treatment advice

**If on skin or clothing** Take off contaminated clothing Rinse skin immediately with plenty of water for 15 20 minutes Call a poison control center or doctor for treatment advice

Have the product container or label with you when calling a poison control center or doctor or going for treatment You may also contact 1 800 992 5994 for emergency medical treatment information

**Environmental Hazards**

Drift and runoff from applications of this product may be hazardous to sensitive aquatic invertebrates in water bodies adjacent to the treatment area For terrestrial uses do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark Do not contaminate water when cleaning equipment or disposing of equipment washwaters

This chemical has properties and characteristics associated with chemicals detected in groundwater The use of this chemical in areas where soils are permeable particularly where the water table is shallow may result in groundwater contamination

Methoxyfenozide can contaminate surface water through spray drift Under some conditions methoxyfenozide may also have a high potential for runoff into surface water (primarily via dissolution in runoff water) for several months post application These include poorly draining or wet soils with readily

visible slopes toward adjacent surface waters frequently flooded areas areas over laying extremely shallow groundwater areas with in field canals or ditches that drain to overlaying tile drainage systems that drain to surface water

Do not cultivate within 10 feet of aquatic areas to allow growth of a vegetative filter strip

Do not apply by ground within 25 feet or by air within 150 feet of lakes reservoirs rivers permanent streams marshes or natural ponds estuaries and commercial fish farm ponds

**Directions for Use**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling Read all Directions for Use carefully before applying

Do not apply this product in a way that will contact workers or other persons either directly or through drift Only protected handlers may be in the area during application For any requirements specific to your state or tribe consult the agency responsible for pesticide regulation

**Not for Sale Use or Distribution in Nassau County and Suffolk County in New York State**

**Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR Part 170 This Standard contains requirements for the protection of agricultural workers on farms forests nurseries and greenhouses and handlers of agricultural pesticides It contains requirements for training decontamination notification and emergency assistance It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants soil or water is

- Coveralls
- Chemical resistant gloves made of any waterproof material
- Shoes plus socks

**Non Agricultural Use Requirements**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170) The WPS applies when this product is used to produce agricultural plants on farms forests nurseries or greenhouses

Keep unprotected persons out of treated area until sprays have dried

**Storage and Disposal**

Do not contaminate water food or feed by storage and disposal

**Pesticide Storage** Store in a cool dry well ventilated area but not below 32°F

**Pesticide Disposal** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility

**Nonrefillable containers 5 gallons or less**

**Container Handling** Nonrefillable container Do not reuse or refill this container

Triple rinse or pressure rinse container (or equivalent) promptly after emptying **Triple rinse** as follows

Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the

flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration or by other procedures allowed by state and local authorities.

#### **Refillable containers 5 gallons or larger**

**Container Handling** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration or by other procedures allowed by state and local authorities.

#### **Nonrefillable containers 5 gallons or larger**

**Container Handling** Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration or by other procedures allowed by state and local authorities.

### **Product Information**

Intrepid<sup>®</sup> 2F insecticide belongs to the diacylhydrazine class of insecticides and has a novel mode of action that mimics the action of the molting hormone of lepidopterous (moths, butterflies) larvae. Upon ingestion, larval stages of the order lepidoptera undergo an incomplete and developmentally lethal premature molt. This process interrupts and rapidly halts their feeding. Feeding typically ceases within hours of ingestion, although complete mortality of the larvae may take several days. Affected larvae often become lethargic and often develop discolored areas or bands between segments.

Intrepid 2F is a narrow spectrum insecticide that specifically targets Lepidoptera, making it an ideal tool for Integrated Pest Management (IPM). The selectivity of Intrepid 2F allows beneficial insects and other arthropods to function unimpeded in the management of secondary pests while Intrepid 2F provides control of troublesome lepidoptera pests.

### **Use Rate Determination**

Carefully read, understand and follow label use rates and restrictions. Apply the amount specified in the following tables with properly calibrated aerial or ground spray equipment. Prepare only the amount of

spray solution required to treat the measured acreage Use the lower rates for light infestations of the target lepidopterous species and the higher rates for moderate to heavy infestations Intrepid 2F may be applied in either dilute or concentrate sprays so long as the application equipment is calibrated and adjusted to deliver thorough uniform coverage Use the specified amount of Intrepid 2F per acre regardless of the spray volume used

**Mixing Directions**

**Always shake well before use Avoid freezing**

**Application Rate Reference Table**

Application Rate of Intrepid 2F (fl oz/acre)	Active Ingredient Equivalent (lb ai/acre)	Acres per Gallon of Intrepid 2F
4	0.06	32
6	0.09	21
8	0.12	16
10	0.16	13
12	0.19	11
16	0.25	8
24	0.38	5

**Intrepid 2F Alone**

Fill the spray tank one third to one half full of clean water and slowly pour Intrepid 2F into the spray tank Maintain agitation in the spray tank during mixing loading and application Triple rinse empty container and add rinsate to the spray tank

**Intrepid 2F Tank Mix**

Intrepid 2F is believed to be compatible with most commonly used agricultural fungicides insecticides growth regulators foliar fertilizers and spray adjuvants However whenever preparing a new tank mix always conduct a compatibility test by mixing proportional amounts of all spray ingredients in a test vessel (jar) Shake the mixture vigorously and allow it to stand for 15 minutes Rapid precipitation of the ingredients and failure to re suspend when shaken indicates that the mixture is incompatible and should not be applied

**Mixing Order for Tank Mixes**

Fill the spray tank with water to one fourth to one third of the required spray volume Start agitation Add different formulation types in the order indicated below allowing time for complete dispersion and mixing after addition of each product Allow extra dispersion and mixing time for dry flowable products

Add different formulation types in the following order

- 1 Water dispersible granules
- 2 Wettable powders
- 3 Intrepid 2F and other aqueous suspensions

Maintain agitation and fill spray tank to three fourths of total spray volume Then add

- 4 Emulsifiable concentrates and water based solutions
- 5 Spray adjuvants
- 6 Foliar fertilizers

Finish filling the spray tank Maintain continuous agitation during mixing final filling and throughout application If spraying and agitation must be stopped before the spray tank is empty the materials may settle to the bottom Settled materials must be resuspended before spraying is resumed A sparger agitator is particularly useful for this purpose

### Application Timing

The activity of Intrepid 2F is expressed primarily through ingestion by the target larvae. Consequently the timing of application is dependent upon the feeding behavior of the target pest. For cryptic (internal) feeding larvae application must be made prior to the time that surface feeding occurs i.e. just prior to initiation of egg hatch. For foliar or surface feeding larvae application may be made while active feeding is occurring.

Reapplication may be required to protect new flushes of foliage rapidly expanding fruit or for extended infestations. The reapplication interval will vary depending upon how rapidly the crop is growing, the generation time of the target pest and the duration of the infestation.

Intrepid 2F is effective against all larval instars however it is good practice to make applications to early instars to minimize feeding damage. For best results begin applications when threshold levels of moths eggs or larvae occur. Consult the Cooperative Extension Service or other qualified professional authorities to determine the appropriate threshold and timing for application in your area.

### Application Directions

Intrepid 2F must be ingested by insect larvae to be fully effective. Applications must be in a manner that assures uniform and thorough coverage. Higher water volume and increased spray pressure generally provide better coverage.

### Spray Drift Management

Adhere to the following buffer zones when applying this product near aquatic habitats (such as lakes, reservoirs, rivers, permanent streams, marshes, or natural ponds, estuaries and commercial fish farm ponds).

Application Method	Buffer Zone (feet)
ground boom	25
overhead chemigation	25
airblast	25
aerial	150

**Wind** Only apply this product if the wind direction favors on target deposition. Do not apply when the wind speed exceeds 10 mph.

**Temperature Inversions** Do not make ground or aerial applications during a temperature inversion. Temperature inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

**Droplet Size** Use only medium or coarser spray nozzles (for ground and non ULV aerial application) according to ASABE (S572.1) definition for standard nozzles. In conditions of low humidity and high temperatures use a coarser droplet size except where indicated for specific crops.

### Ground Application

To avoid drift and achieve maximum performance of this product, make ground applications when the wind speed favors on target product depositions (3 to 10 mph). Wind speed must be measured adjacent to the application site on the upwind side immediately prior to application. Do not apply when wind speed exceeds 10 mph. For groundboom applications apply using a nozzle height of no more than 4 feet above the ground or crop canopy. Shut off the sprayer when turning at row ends. Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind directions are toward the aquatic area.

**Airblast Sprayer** When using an airblast sprayer coverage is also improved by operation of the sprayer at ground speeds that assure that the air volume within the tree canopy is completely replaced by the output from the airblast sprayer. Making applications in an alternate row middle pattern may result in less than satisfactory coverage and poor performance in conditions of high pest infestation levels, extremely large trees and/or dense foliage. For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

### **Chemigation Application**

Intrepid 2F may be applied to cranberries and ornamentals through sprinkler irrigation equipment. Do not apply this product by chemigation unless specified in crop specific directions in this label or Dow AgroSciences supplemental labeling.

**General Directions for Chemigation** Apply through a properly calibrated chemigation system that has the appropriate back flow prevention devices. See the Mixing section of the product label for specific mixing and dilution instructions. Apply Intrepid 2F in dedicated chemigation cycles only, not as a part of a regular irrigation cycle. Do not exceed 900 gallons of water per acre application volume using just enough water to thoroughly wet the plants but not the soil. Use minimum volume for flushout to avoid diluting or rinsing off product. Washout time should not exceed six (6) minutes. Set sprinkler heads in a spacing not exceeding 50 feet by 60 feet and adjusted to provide 100% overlap.

**Apply this product only through solid set sprinkler systems designed specifically for chemigation** Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness or illegal pesticide residues in the crop can result from non uniform distribution of treated water. If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

- Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- Chemigation systems connected to public water systems must contain a functional reduced pressure zone (RPZ) back flow preventer or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow. The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must contain a functional, normally closed solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- The irrigation line or water pump must include a functional pressure switch that will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

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- Systems not connected to a public water supply must contain a functional check valve vacuum relief valve and low pressure drain appropriately located in the irrigation pipeline to prevent water source contamination from back flow
- Systems must use a positive displacement metering injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock
- Do not apply when wind speed favors drift beyond the area intended for treatment
- If you have questions about calibration you should contact State Extension Service specialists equipment manufacturers or other experts

### **Aerial Application**

Mount the spray boom on the aircraft so as to minimize drift caused by wing tip or rotor vortices. Use the minimum practical boom length and do not exceed 75% of the wing span or 80% of the rotor diameter. Flight speed and nozzle orientation must be considered in determining droplet size. Spray must be released at the lowest height consistent with pest control and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety. When applications are made with a crosswind the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

### **Rainfastness**

As soon as dry Intrepid 2F will resist wash off better than most insecticides. However efficacy or residual will be reduced with exposure to rainfall or overhead irrigation.

### **Spray Adjuvants**

The addition of agricultural adjuvants to sprays of Intrepid 2F may improve initial spray deposits redistribution and weatherability. Select adjuvants that are recommended and registered for your specific use pattern and follow their use directions. When an adjuvant is to be used with this product Dow AgroSciences recommends the use of a Chemical Producers and Distributors Association certified adjuvant. Always add adjuvants last in the mixing process.

### **Insecticide Resistance Management**

Intrepid 2F contains a Group 18 insecticide. Insect/mite biotypes with acquired resistance to Group 18 may eventually dominate the insect/mite population if Group 18 insecticides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by Intrepid 2F or other Group 18 insecticides.

To delay development of insecticide resistance the following practices are recommended:

Avoid consecutive use of insecticides on succeeding generations with the same mode of action (same insecticide group) on the same insect species.

Consider tank mixtures or premix products containing insecticides with different modes of action (different insecticide groups) provided the products are registered for the intended use.

Base insecticide use upon comprehensive IPM programs.

Monitor treated insect populations in the field for loss of effectiveness.

Do not treat seedling plants grown for transplant in greenhouses, shade houses, or field plots.

Contact your local extension specialist, certified crop advisor, and/or manufacturer for insecticide resistance management and/or IPM recommendations for the specific site and resistant pest problems.

For further information or to report suspected resistance, you may contact Dow AgroSciences by calling 800 258 3033.

### **Endangered Species**

The following applies to use of this product in Michigan (Allegan, Monroe, Montcalm, Muskegon, Newaygo, or Oceana counties) or Wisconsin (Adams, Burnett, Chippewa, Clark, Door, Eau Claire, Green Lake, Jackson, Juneau, Marquette, Monroe, Polk, Portage, Waupaca, Waushara, or Wood counties).



This product may have effects on endangered species. When using this product, you must follow the measures contained in the Endangered Species Protection Bulletin for the county in which you are applying the product. To obtain Bulletins, no more than six months before using this product, consult <http://www.epa.gov/espp/> or call 1 800 447 3813. You must use the Bulletin valid for the month in which you will apply the product.

**Rotational Crop Restrictions**

The following rotational crops may be planted at intervals defined below following the final application of Intrepid 2F at specified rates for a registered use.

Crop	Re Planting Interval
crops registered use	no restrictions
all other crops grown for food or feed	7 days

**Note** When using Intrepid 2F with other registered pesticides, always refer to rotational restrictions and precautions on the other product's label and comply with the most restrictive rotational guidelines.

**Uses**

**Bushberries (Subgroup 13 07B)<sup>1</sup>, Aronia Berry, Buffalo Currant, Chilean Guava, European Barberry, Highbush Cranberry, Honeysuckle, Jostaberry, Juneberry, Lingonberry, Native Currant, Salal, Sea Buckthorn, and Cultivars and/or Hybrids of Each**

(Not registered in New York)

<sup>1</sup>Bushberries (subgroup 13 07B) including black currant, elderberry, gooseberry, highbush blueberry, huckleberry, lowbush blueberry, red currant.

**Ground Application** Apply in a minimum of 30 gallons per acre (gpa) by conventional ground equipment. Use a spray volume that assures uniform coverage of the infested portions of the treated crop. Calibrate equipment to the desired spray volume.

**Aerial Application** Apply in a minimum of 10 gpa. Use a higher carrier volume for heavy infestations and in situations where thorough coverage is difficult to achieve.

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
cherry fruitworm cranberry fruitworm	10-16 (0.16-0.25 lb ai/acre)	Apply at initiation of egg laying [approximately 400 Day Degrees (DD) base 50 F] following biofix <sup>1</sup> . Make a second application at 100% petal fall (usually 7 to 14 days following the first application). An additional application (third) no sooner than 7 days following the second application may be required under high pressure or sustained moth flight.	<ul style="list-style-type: none"> <li>• <b>Preharvest Interval</b> Do not apply within 7 days of harvest.</li> <li>• Do not apply more than a total of 48 fl oz of Intrepid 2F (0.75 lb ai) per acre per year. Do not make more than 3 applications per calendar year.</li> <li>• <b>Minimum Re treatment Interval</b> 7 days.</li> </ul>

<p>European grapevine moth light brown apple moth obliquebanded leafroller</p>		<p><b>Spring (overwintering) generation</b> Make one or two applications at bloom to petal fall to small larvae when threshold levels occur <b>Summer generation</b> Begin applications at peak moth flight (200 to 300 DD base 43 F) following biofix An additional application (third) no sooner than 7 days following the second application may be required under high pressure or sustained moth flight</p>	<ul style="list-style-type: none"> <li>• See Rotational Crop Restrictions</li> </ul>
<p>redbanded leafroller variegated leafroller</p>		<p>For control of other leafrollers apply at early egg hatch for each generation Make the first application before webbing and sheltering begins Make a second application to ensure complete coverage of rapidly expanding fruits or foliage</p>	
<p>spanworm</p>		<p>Apply when first signs of feeding damage appear or when infestations reach threshold levels as defined by cooperative extension service or other qualified professional authorities</p>	
<p>green fruitworm</p>		<p>Apply when larvae are first detected in the clusters or when infestations reach threshold levels as defined by cooperative extension service or other qualified professional authorities</p>	
<p>armyworm cutworm</p>	<p>8 – 16 (0.12 – 0.25 lb ai/acre)</p>	<p>Apply when first signs of feeding damage appear or when infestations reach threshold levels as defined by cooperative extension service or other qualified professional authorities</p>	
<p>gypsy moth</p>	<p>4 – 8 (0.06 – 0.12 lb ai/acre)</p>	<p>Apply to early instars (1st 2nd or 3rd) at first signs of infestation</p>	

<sup>1</sup>Biofix is defined as first sustained adult catch in pheromone traps typically five moths in three traps within a 7 day period Consult state extension specialists or other qualified authorities for specific information regarding number placement and management of pheromone traps

**Cilantro Leaves, *Brassica* (Cole) Leafy Vegetables (Crop Group 5)<sup>1</sup>, Leafy Vegetables (Crop Group 4)<sup>2</sup>, Leaves of Root and Tuber Vegetables (Crop Group 2)<sup>3</sup> and Turnip Greens  
(Not registered in New York)**

<sup>1</sup>*Brassica* (cole) leafy vegetables (crop group 5) including broccoli broccoli raab Brussels sprouts cabbage cauliflower cavalo broccolo Chinese broccoli Chinese cabbage (bok choy napa) Chinese mustard cabbage (gai choy) collards kale kohlrabi mizuna mustard greens mustard spinach rape greens

<sup>2</sup>Leafy vegetables (except *Brassica*) (crop group 4) including amaranth arugula cardoon celery celtuce chervil Chinese celery corn salad dandelion dock edible leaved chrysanthemum endive (escarole) florence fennel garden cress garden purslane garland chrysanthemum lettuce (head leaf) New Zealand spinach orach parsley radicchio rhubarb spinach Swiss chard upland cress vine spinach winter purslane

<sup>3</sup>Leaves of root and tuber vegetables (crop group 2) including bitter cassava black salsify carrot celeriac chicory dasheen edible burdock garden beet parsnip oriental radish radish rutabaga sugarbeet sweet cassava sweet potato tanager true yam turnip and turnip rooted chervil

**Ground Application** Apply in a minimum of 10 gpa by conventional ground equipment to young crop or small plants Apply in a minimum of 20 gpa to densely foliated or difficult to cover crops to ensure thorough coverage Use a spray volume that assures uniform coverage of the infested portions of the treated crop Calibrate equipment to the desired spray volume

**Aerial Application** Apply in a minimum of 10 gpa

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
beet armyworm cabbage looper cutworms (suppression only) fall armyworm garden webworm imported cabbageworm southern armyworm true armyworm yellowstriped armyworm	4 – 8 (0.06 – 0.12 lb ai/acre)	For early season applications only to young crops and small plants Apply at first sign of feeding damage or when infestations reach threshold levels as defined by a cooperative extension service or other qualified professional authorities	<ul style="list-style-type: none"> <li>• <b>Preharvest Interval</b> Do not apply within 1 day of harvest</li> <li>• Do not apply more than 16 fl oz per acre per application or more than a total of 64 fl oz of Intrepid 2F (1 lb ai) per acre per year</li> <li>• See Rotational Crop Restrictions</li> </ul>
beet armyworm cabbage looper cabbage webworm cross striped cabbageworm cutworms (suppression only) fall armyworm garden webworm imported cabbageworm southern armworm true armyworm yellowstriped armyworm	8 – 10 (0.12 – 0.16 lb ai/acre)	For mid to late season applications heavier infestations and under conditions in which thorough coverage is more difficult For heavy infestations continuous moth flights and/or egg masses and larvae in all stages of development a 10 to 14 day re treatment interval is required to protect new growth until moth flights and/or hits subside	

diamondback moth (suppression only)	12 16 (0.19 – 0.25 lb ai/acre)	Infestations and crop damage are reduced when applied at initiation of egg laying	
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**Citrus Fruits (Crop Group 10 10)<sup>1</sup>**

<sup>1</sup>Citrus fruits (crop group 10 10) including Australian desert lime Australian finger lime Australian round lime brown river finger lime calamondin citron citrus hybrids grapefruit Japanese summer grapefruit kumquat lemon lime Mediterranean mandarin mount white lime New Guinea wild lime pummelo russell river lime satsuma mandarin sour orange sweet lime sweet orange tachibana orange Tahiti lime tangelo tangerine (Mandarin) tangor trifoliolate orange uniq fruit cultivars varieties and/or hybrids of these

**Ground Application** Apply in a minimum of 50 gpa by conventional ground equipment to trellised trees or trees 10 feet tall or less For trees more than 10 feet tall use a minimum of 100 gpa For low volume applications apply a minimum of 20 gallons per acre by ground equipment Use a spray volume that assures uniform coverage of the infested portions of the treated crop Optimum results are achieved when higher spray volumes are used Calibrate equipment to the desired spray volume When using a new application method or product for the first time treat a small area before applying to larger areas

**Resistance Management** To reduce the potential for resistance development in target pest species do not make more than 3 consecutive applications of Intrepid 2F If additional treatments are required after two consecutive applications of Intrepid 2F rotate to another class of effective insecticide of alternate modes of action for at least two applications and utilize Integrated Pest Management practices such as routine monitoring treatment thresholds to time applications and cultural and biological controls whenever possible Consult your Dow AgroSciences representative extension specialist certified crop advisor or state agricultural experiment station for information on alternative effective products to use in your area

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
citrus leafminer citrus peelminer cutworms European grapevine moth leafrollers orange dog worm	8 16 (0.12 – 0.25 lb ai/acre)	Apply at the first observation of the pests on the flushing leaves Reapply no sooner than 14 day intervals	<ul style="list-style-type: none"> <li>• <b>Preharvest Interval</b> Do not apply within 1 day of harvest</li> <li>Do not apply more than 16 fl oz per acre per application or more than a total of 64 fl oz of Intrepid 2F (1 lb ai) per acre per year</li> </ul>

**Corn (Field, Sweet, Seed)  
(Not registered in New York)**

**Specific Use Directions Field Corn**

**Ground Application** Apply in a minimum of 5 gpa by conventional ground equipment to young crop or small plants Higher carrier volumes may be required to provide thorough coverage to larger more mature crop Use a spray volume that assures uniform coverage of the infested portions of the treated crop Calibrate equipment to the desired spray volume

**Aerial Application** Apply in a minimum of 5 gpa Use sufficient carrier volume to provide thorough uniform coverage

**Specific Use Directions Sweet Corn**

**Ground Application** Apply in a minimum of 10 gpa by conventional ground equipment to young crop or small plants. Apply in a minimum of 20 gpa after initiation of tasseling. Calibrate equipment and spray volume to assure uniform coverage of infested parts of the crop.

**Aerial Application** Apply in a minimum of 10 gpa

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
European corn borer southwestern corn borer sugarcane borer	4 – 16 (0.06 – 0.25 lb ai/acre)	Apply at first sign of egg hatch or when infestations reach threshold levels as defined by a cooperative extension service or other qualified professional authorities Direct application at the whorl for early season (first generation) infestations Apply as broadcast or multi nozzle over the row application to mid and late season infestations	<b>Preharvest Interval Field Corn</b> Do not apply within 21 days of harvest <b>• Preharvest Interval Sweet Corn</b> Do not apply within 3 days of harvest for ears and/or green chop (forage) and within 21 days of harvest for dry fodder <b>• Do not apply more than 16 fl oz per acre per application or more than a total of 64 fl oz of Intrepid 2F (1 lb ai) per acre per year</b> <b>• See Rotational Crop Restrictions</b>
true armyworm western bean cutworm		Apply at first sign of egg hatch (field corn) feeding damage (sweet corn) or when infestations reach threshold levels as defined by a cooperative extension service or other qualified professional authorities Under heavy infestations continuous moth flights or rapid crop growth and development reapply at 5 to 10 day re treatment interval	

**Cotton**

(Not registered in New York)

**Ground Application** Make applications by conventional ground sprayers which are calibrated to deliver a minimum of 5 gpa

**Aerial Application** Apply in a minimum of 3 gpa. Use a higher carrier volume or heavy infestations and in situations where thorough coverage is difficult to achieve

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
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beet armyworm cabbage looper cotton leafworm cotton leaf perforator fall armyworm <sup>1</sup> saltmarsh caterpillar southern armyworm soybean looper true armyworm yellowstriped armyworm	4 10 (0.06 - 0.16 lb ai/acre)	Apply at egg hatch or when first signs of feeding occur Use a higher rate for heavier infestations and under conditions in which thorough coverage is more difficult (most fall armyworm) Under heavy infestations continuous moth flights and/or egg masses and larvae in all stages of development a 10 to 14 day re treatment interval is required to protect new growth until moth flights and/or hits subside	<ul style="list-style-type: none"> <li>• <b>Preharvest Interval</b> Do not apply within 14 days of harvest                      Do not apply more than a total of 64 fl oz of Intrepid 2F (1 lb ai) per year</li> </ul>
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<sup>1</sup>Suppression only Use a higher rate in the rate range and ensure thorough coverage Tank mixing Intrepid 2F with other products registered for fall armyworm control in cotton (e.g. pyrethroids spinosad or others) has been shown to improve control Consult your Dow AgroSciences representative extension service specialist certified crop advisor or state agricultural experiment station for any additional local use recommendations for your area

**Cranberry**  
 (Not registered in New York)

**Ground Application** Apply in a minimum of 10 gpa by conventional ground equipment to young crop or small plants Apply in a minimum of 20 gpa to densely foliated or difficult to cover crops to ensure thorough coverage Use a spray volume that assures uniform coverage of the infested portions of the treated crop Calibrate equipment to the desired spray volume

**Aerial Application** Apply in a minimum of 10 gpa

**Chemigation Application** Intrepid 2F may be applied through sprinkler irrigation systems to control listed pests Use specified broadcast application rates See Chemigation Application section

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
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<p>blackheaded fireworm          gypsy moth  <i>sparganothis</i>          fruitworm          spanworms          spotted fireworm</p>	<p>10 - 16          (0.16 - 0.25 lb ai/acre)</p>	<p><b>Spring (overwintering) generation</b> Make 1 to 2 applications during the flower bud development period depending upon infestation level</p> <p><b>Summer generation</b> Make the first application during the period of peak egg lay to early egg hatch. Reapply 10 to 18 days later</p> <p>A higher rate in the rate range and additional applications at 10 to 18 day intervals may be required for heavy infestations sustained moth flight situations in which it is difficult to achieve thorough coverage and for quicker knockdown of larvae</p> <p>For control of light to moderate infestations begin applications before egg hatch of each generation and before the larvae penetrate the fruit. The product provides 10 to 18 days of protection depending upon application rate and how rapidly fruit is expanding</p>	<ul style="list-style-type: none"> <li>• <b>Preharvest Interval</b> Do not apply within 14 days of harvest</li> <li>• Do not apply more than 16 fl oz per acre per application or more than a total of 64 fl oz of Intrepid 2F (1 lb ai) per acre per year</li> </ul>
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**Cucurbit Vegetables (Crop Group 9)<sup>1</sup>**  
 (Not registered in New York)

<sup>1</sup>Cucurbit vegetables (crop group 9) including balsam apple, balsam pear, bitter melon, chayote (fruit), Chinese cucumber, Chinese waxgourd (Chinese preserving melon), citron melon, cucumber, edible gourd (including Chinese okra, cucuzza, hechima, hyotan), gherkin, muskmelon (including cantaloupe, casaba, crenshaw melon, golden pershaw melon, honey balls, honeydew melon, mango melon, persian melon, pineapple melon, santa claus melon, snake melon, true cantaloupe), pumpkin, summer squash (including crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), winter squash (including acorn squash, butternut squash, calabaza, hubbard squash, spaghetti squash), watermelon

**Ground Application** Apply in a minimum of 10 gpa by conventional ground equipment to young crop or small plants. Apply in a minimum of 20 gpa to densely foliated or difficult to cover crops to ensure thorough coverage. Use a spray volume that assures uniform coverage of the infested portions of the treated crop. Calibrate equipment to the desired spray volume.

**Aerial Application** Apply in a minimum of 10 gpa

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
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beet armyworm cabbage looper melon worm pickle worm rnd worm southern armyworm true armyworm yellowstriped armyworm	4 – 10 (0.06 – 0.16 lb ai/acre)	Apply at first sign of infestation targeting eggs and small larvae or when infestations reach threshold levels as defined by a cooperative extension service or other qualified professional authorities	<ul style="list-style-type: none"> <li>• <b>Preharvest Interval</b> Do not apply within 3 days of harvest</li> <li>• Do not apply more than a total of 64 fl oz of Intrepid 2F (1 lb ai) per acre per year</li> <li>• Do not make more than 4 applications per acre per season</li> </ul> <p><b>Minimum Re treatment Interval</b> 7 days</p> <ul style="list-style-type: none"> <li>• See Rotational Crop Restrictions</li> </ul>
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**Fruiting Vegetables (Crop Group 8)<sup>1</sup> and Okra**  
 (Not registered in New York)

<sup>1</sup>Fruiting vegetables (crop group 8) including eggplant groundcherry pepino pepper (bell chili cooking sweet) pimento tomatillo tomato

**Ground Application** Apply in a minimum of 10 gpa by conventional ground equipment to young crop or small plants Apply in a minimum of 20 gpa to densely foliated or difficult to cover crops to ensure thorough coverage Use a spray volume that assures uniform coverage of the infested portions of the treated crop Calibrate equipment to the desired spray volume

**Aerial Application** Apply in a minimum of 10 gpa

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
beet armyworm cabbage looper European corn borer fall armyworm southern armyworm tomato hornworm true armyworm yellowstriped armyworm	4 – 8 (0.06 – 0.12 lb ai/acre)	For early season applications only to young crops and small plants Apply at first sign of feeding damage or when infestations reach threshold levels as defined by a cooperative extension service or other qualified professional authorities	<ul style="list-style-type: none"> <li>• <b>Preharvest Interval</b> Do not apply within 1 day of harvest</li> <li>Do not apply more than 16 fl oz per acre per application or more than a total of 64 fl oz of Intrepid 2F (1 lb ai) per acre per year</li> </ul>
western yellowstriped armyworm	8 – 16 (0.12 – 0.25 lb ai/acre)	For mid to late season applications heavier infestations and under conditions in which thorough coverage is more difficult For heavy infestations continuous moth flights and/or egg masses and larvae in all stages of development a 7 to 14 day re treatment interval is required to protect new growth until moth flights and/or larval infestations subside	<ul style="list-style-type: none"> <li>• See Rotational Crop Restrictions</li> </ul>



tomato fruitworm (suppression only)	10 16 (0 16 – 0 25 lb ai/acre)	Apply at first sign of feeding damage or when infestations reach threshold levels as defined by a cooperative extension service or other qualified professional authorities May provide partial control when infestations reach high levels	
tomato pinworm (suppression only)		Leafmining and infestations of leafmining phase are reduced when applied at initiation of egg laying	

**Globe Artichoke**

(Not registered in New York)

**Ground Application** Apply in a minimum of 75 gpa of water using calibrated ground application equipment that provides thorough coverage

**Aerial Application** Apply in a minimum of 10 gpa of water Use higher water volumes for heavy infestations and in situations where thorough coverage is difficult to achieve

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
armyworm plume moth	4 16 (0 06 – 0 25 lb ai/acre)	Apply at egg hatch or when first signs of feeding occur Use a higher rate for heavier infestations and under conditions in which thorough coverage is more difficult Under conditions of heavy infestations continuous moth flights and/or egg masses and larvae in all stages of development reapply Intrepid 2F or another effective product at a minimum application interval of 7 days to protect new growth until moth flights subside	<ul style="list-style-type: none"> <li>• <b>Preharvest Interval</b> Do not apply within 4 days of harvest</li> <li>• Do not apply more than a total of 64 fl oz of Intrepid 2F (1 lb ai) per acre per year</li> <li>• Do not make more than 4 applications per season</li> </ul>

**Grape**

(Not registered in New York)

**Ground Application** Apply in a minimum of 40 gpa by conventional airblast or over the row sprayer If using other type of sprayer apply in sufficient carrier volume to ensure thorough uniform cover of the crop Use a spray volume that assures uniform coverage of the infested portions of the treated crop Calibrate equipment to the desired spray volume

**Aerial Application** Apply in a minimum of 20 gpa This method should not be used if the density of the foliage prohibits thorough uniform coverage of the entire vine canopy

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
grape berry moth	8 - 16 (0.12 - 0.25 lb ai/acre)	For internal feeding lepidoptera larvae apply at initiation of egg hatch for each generation. Reapply within 10 to 18 days to ensure complete coverage of rapidly expanding fruits or foliage.	<ul style="list-style-type: none"> <li>• <b>Preharvest Interval</b> Do not apply within 30 days of harvest</li> <li>• Do not apply more than 16 fl oz per acre per application or more than a total of 48 fl oz of Intrepid 2F (0.75 lb ai) per acre per year</li> </ul>
European grapevine moth grape leaf folder light brown apple moth omnivorous leafroller obliquebanded leafroller orange tortrix redbanded leafroller		<p><b>Spring generation</b> Apply at first sign of larval infestation or to small larvae when threshold levels occur</p> <p><b>Summer generation</b> For each generation apply at first egg hatch. Reapply at 10 to 14 day intervals under high pressure or sustained moth flight</p>	

**Grass Forage Fodder, and Hay (Crop Group 17)**  
(Not registered in New York)

**Ground Application** Apply in a minimum of 10 gpa by conventional ground equipment. Use a spray volume that assures uniform coverage of the infested portions of the treated crop. Calibrate equipment to the desired spray volume.

**Aerial Application** Apply in a minimum of 5 gpa. Use a higher carrier volume for heavy infestations and in situations where thorough coverage is difficult to achieve.

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
armyworms	4 - 8 (0.06 - 0.12 lb ai/acre)	Begin applications when first signs of feeding damage appear or when threshold levels of feeding damage occur. Use a higher rate for heavier infestations and under conditions in which thorough coverage is more difficult.	<ul style="list-style-type: none"> <li>• <b>Preharvest Interval</b> Do not apply to hay within 7 days of harvest. There is no pre harvest interval for forage. Livestock can enter and graze on treated area immediately after application.</li> <li>• Do not apply more than a total of 32 fl oz of Intrepid 2F (0.5 lb ai) per acre per year.</li> <li>• Do not make more than 1 application cutting.</li> <li>• See Rotational Crop Restrictions.</li> </ul>

**Green Onion (Subgroup 3 07B)<sup>1</sup>**  
(Not registered in New York)

<sup>1</sup>Green onion (subgroup 3 07B) including beltsville bunching onion Chinese chive (fresh leaves) chive (fresh leaves) elegans hosta fresh onion fritillaria leaves green onion kurrat lady s leek leek macrostem onion shallot (fresh leaves) tree onion (tops) wild leek

**Ground Application** Apply in a minimum of 10 gpa by conventional ground equipment to young crop or small plants Apply in a minimum of 20 gpa to densely foliated or difficult to cover crops to ensure thorough coverage Use a spray volume that assures uniform coverage of the infested portions of the treated crop Calibrate equipment to the desired spray volume

**Aerial Application** Apply in a minimum of 10 gpa

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
lepidopteran larvae including armyworms European corn borer loopers	4 – 8 (0.06 – 0.12 lb a/acre)	For early season applications only to young crops and small plants Apply at first sign of feeding damage or when infestations reach threshold levels as defined by a cooperative extension service or other qualified professional authorities	<p><b>Preharvest Interval</b> Do not apply within 1 day of harvest</p> <p>Do not apply more than 12 fl oz per acre per application or more than a total of 64 fl oz of Intrepid 2F (1 lb ai) per acre per year</p> <ul style="list-style-type: none"> <li>• Do not make more than 6 applications of Intrepid 2F per acre per year</li> <li>• See Rotational Crop Restrictions</li> </ul>
	8 – 12 (0.12 – 0.19 lb a/acre)	For mid to late season applications heavier infestations and under conditions in which thorough coverage is more difficult For heavy infestations continuous moth flights and/or egg masses and larvae in all stages of development reapplication can be made at a minimum 10 day re treatment interval to protect new growth until moth flights and/or hits subside	

**Legume Vegetables (Succulent or Dried) (Crop Group 6)<sup>1</sup> and Foliage of Legume Vegetables (Except Soybean) (Subgroup 7A)<sup>2</sup>**  
(Not registered in New York)

<sup>1</sup>Legume vegetables (succulent or dried) (crop group 6) including asparagus bean blackeyed pea *Cajanus* spp (pigeon pea) Chinese longbean *Cicer arietinum* (chick peas garbanzo beans) cowpea green lima bean jackbean *Lens* spp (lentils) *Lupinus* spp (grain lupine sweet lupine white lupine white sweet lupine) moth bean *Phaseolus* spp (kidney beans lima beans mung beans navy beans pinto beans snap beans waxbeans) *Pisum* spp (dwarf pea edible pod pea English pea field pea garden pea green pea) runner bean snap bean snow pea soybean (immature seed) southern pea succulent broad bean sugar snap pea sword bean *Vicia faba* (broad beans fava beans) *Vigna* spp (asparagus beans blackeyed pea cowpeas) wax bean yardlong bean

<sup>2</sup>Foliage of legume vegetables (except soybean) (subgroup 7A) including any cultivar of bean and field pea (except soybean)

**Ground Application** Apply in a minimum of 10 gpa by conventional ground equipment to young crop or small plants Apply in a minimum of 20 gpa to densely foliated or difficult to cover crops to ensure

through coverage Use a spray volume that assures uniform coverage of the infested portions of the treated crop Calibrate equipment to the desired spray volume

**Aerial Application** Apply in a minimum of 10 gpa Use a higher carrier volume for heavy infestations and in situations where thorough coverage is difficult to achieve

**Resistance Management** To reduce the potential for resistance development in target pest species do not make more than two consecutive applications of Intrepid 2F If additional treatments are required after two consecutive applications of Intrepid 2F rotate to another class of effective insecticides for at least one application and utilize Integrated Pest Management practices such as routine monitoring treatment thresholds to time applications and cultural and biological controls whenever possible Consult your Dow AgroSciences representative extension specialist certified crop advisor or state agricultural experiment station for information on alternative effective products to use in your area

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
alfalfa looper beet armyworm cabbage looper European corn borer fall armyworm southern armyworm tomato hornworm true armyworm yellowstriped armyworm western yellowstriped armyworm	4 – 8 (0.06 – 0.12 lb ai/acre)	For early season applications only to young crops and small plants Apply at first sign of feeding damage or when infestations reach threshold levels as defined by a cooperative extension service or other qualified professional authorities	<ul style="list-style-type: none"> <li>• <b>Preharvest Interval</b> Do not apply within 7 days of harvest</li> <li>• Do not apply more than 16 fl oz per acre per application or more than a total of 64 fl oz of Intrepid 2F (1 lb ai) per acre per year</li> <li>• Do not make more than 4 applications per acre per year</li> <li>• <b>Minimum Re treatment Interval</b> 7 days</li> <li>• Do not use adjuvants in the tank mix when applying this product to dry peas and beans</li> <li>• Do not apply to dry peas by aerial ULV</li> <li>• See Rotational Crop Restrictions</li> </ul>
	8 – 16 (0.12 – 0.25 lb ai/acre)	For mid to late season applications heavier infestations and under conditions in which thorough coverage is more difficult For heavy infestations continuous moth flights and/or egg masses and larvae in all stages of development a 7 to 14 day re treatment interval is required to protect new growth until moth flights and/or larval infestations subside	
corn earworm ( <i>Helioverpa</i> / <i>Heliothis</i> ) (suppression only)	10 – 16 (0.16 – 0.25 lb ai/acre)	Apply at first sign of feeding damage or when infestations reach threshold levels as defined by a cooperative extension service or other qualified professional authorities May provide partial control when infestations reach high levels	
tomato pinworm (suppression only)		Leafmining and infestations of leafmining phase are reduced when applied at initiation of egg laying	

**Nongrass Forage, Fodder, Straw and Hay (Crop Group 18)<sup>1</sup>**  
**(Not registered in New York)**

<sup>1</sup>Nongrass forage fodder straw and hay (crop group 18) including alfalfa clover crown vetch kudzu lespedeza lupin milk vetch sainfoin trefoil velvet bean vetch

**Ground Application** Apply in a minimum of 10 gpa by conventional ground equipment Use a spray volume that assures uniform coverage of the infested portions of the treated crop Calibrate equipment to the desired spray volume

**Aerial Application** Apply in a minimum of 5 gpa Use a higher carrier volume for heavy infestations and in situations where thorough coverage is difficult to achieve

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
armyworms including beet fall southern striped true western yellowstriped  alfalfa caterpillar alfalfa looper webworms	4 8 (0 06 0 12 lb ai/acre)	Begin applications when first signs of feeding damage appear or when threshold levels of feeding damage occur  Use a higher rate for heavier infestations and under conditions in which thorough coverage is more difficult	<ul style="list-style-type: none"> <li>• <b>Preharvest Interval</b> Do not apply within 7 days of hay harvest there is no preharvest interval for forage</li> <li>• Do not apply more than a total of 32 fl oz of Intrepid 2F (0 5 lb ai) per acre per year</li> <li>• Do not make more than 1 application per cutting</li> <li>• Livestock can enter and graze on treated area immediately after application</li> <li>• See Rotational Crop Restrictions</li> </ul>

**Ornamentals**  
**(Not registered in New York)**

Intrepid 2F controls the listed pests on trees shrubs foliage plants and flowers grown in commercial nurseries and greenhouses in Christmas tree farms in outdoor landscape areas such as parks recreational areas institutional grounds residential property etc and in interior plantscapes When applied as directed Intrepid 2F has shown excellent selectivity on a wide range of ornamental plants It is impossible however to evaluate this product on all ornamentals or under all possible growing conditions The user should exercise reasonable judgment and caution with this product until familiar with results under user growing conditions treat a limited number of plants

**Ground Application** Apply in a minimum of 50 gpa by conventional ground equipment or hydraulic sprayers Apply in a minimum of 10 gpa by mist blowers or air blast sprayers Use a spray volume that assures uniform coverage of the infested portions of the treated crop Calibrate equipment to the desired spray volume

**Hand Sprayers** Apply in enough water to thoroughly spray plant foliage until runoff

Intrepid 2F (fl oz/acre)	Active Ingredient (lb ai/acre)	Equivalent Intrepid 2F in 1 Gallon of Water (Teaspoon)
4	0 06	1/4
8	0 12	1/2
16	0 25	1

**Aerial Application** Apply in a minimum of 20 gpa Intrepid 2F can be aerially applied when conditions warrant However this method should not be used if the size of the tree or density of the foliage prohibits thorough uniform coverage of the entire tree canopy Do not make aerial applications in immediate proximity of residential commercial government institutional or other structures where people may be present including homes apartments offices churches schools and businesses Aerial applicators should evaluate conditions existing at the time of application and make appropriate adjustments to reduce drift In urban areas however use is limited to directed ground or chemical applications

**Chemigation Application** Intrepid 2F may be applied through sprinkler irrigation systems to control listed pests Use specified broadcast application rates See Chemigation Application section

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
armyworm bagworms beet armyworm browntail moth codling moth cutworms eastern tent caterpillar elm spanworm eucalyptus caterpillar European grapevine moth fall armyworm fall cankerworm fall webworm Florida fern caterpillar forest tent caterpillar gypsy moth hemlock looper jack pine budworm leafrollers light brown apple moth pine tip moth processionary caterpillar puss caterpillar spruce budworm tussock moth western spruce budworm western tent caterpillar yellowneck caterpillar zimmerman pine moth	4 – 16 (0.06 – 0.25 lb ai/acre)	Begin applications when larvae are observed or at the first sign of feeding damage Repeat applications on a 10 to 14 day interval or as necessary based upon pest reinfestation  Uniform coverage of the foliage is essential to provide maximum protection from defoliation and reduction of egg mass deposition	<ul style="list-style-type: none"> <li>• Do not apply more than a total of 32 fl oz of Intrepid 2F (0.5 lb ai) per acre per year</li> <li>• Do not make more than 4 applications of Intrepid 2F per acre per year</li> <li>• Allow at least six hours between application completion and onset of precipitation to assure thorough spray drying</li> </ul>

**Peanut**  
 (Not registered in New York)

**Ground Application** Apply in a minimum of 10 gpa by conventional ground equipment Use a spray volume that assures uniform coverage of the infested portions of the treated crop Calibrate equipment to the desired spray volume

**Aerial Application** Apply in a minimum of 5 gpa Use a higher carrier volume for heavy infestations and in situations where thorough coverage is difficult to achieve

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
armyworms cabbage looper green clover worm saltmarsh caterpillar soybean loopers velvet bean caterpillar	6 10 (0 09 0 16 lb ai/acre)	Apply when first signs of feeding damage appear or when threshold levels of feeding damage occur	<p><b>Preharvest Interval</b> Do not apply within 7 days of harvest</p> <ul style="list-style-type: none"> <li>Do not apply more than a total of 64 fl oz of Intrepid 2F (1 lb ai) per acre per year</li> <li>Do not make more than 3 applications per acre per year</li> <li><b>Minimum Re treatment Interval</b> 7 days</li> <li>See Rotational Crop Restrictions</li> </ul>

**Pome Fruits (Crop Group 11)<sup>1</sup>**

<sup>1</sup>Pome fruits (crop group 11) including apple crabapple loquat mayhaw pear pear (oriental) quince

**Ground Application** Apply Intrepid 2F by conventional ground sprayers which are calibrated to deliver a minimum of 50 gpa to trellised trees or trees 10 feet tall or less For trees greater than 10 feet tall use a minimum of 100 gpa

**Aerial Application** Apply Intrepid 2F in a minimum of 20 gpa Intrepid 2F can be applied by aerial applications when conditions warrant However this method should not be used if the size of the tree or density of the foliage prohibits thorough uniform coverage of the entire tree canopy

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
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<p>codling moth (suppression only) For use against low to moderate infestations in conjunction with alternate control measures such as in established mating disruption blocks. It may also be used in a program approach alternated or interspersed with other insecticides targeted at the same pest so long as the re treatment interval does not exceed the period of effectiveness of the products being alternated and Intrepid 2F is applied before larvae penetrate the fruit</p>	<p>16 (0.25 lb ai/acre)</p>	<p>For each generation apply at the initiation of egg lay (usually occurs at 100 to 200 DD base 50°F following biofix). Reapply 10 to 18 days later. For best protection begin applications before egg hatch of each generation and before the larvae penetrate the fruit. Once applied Intrepid 2F provides 10 to 18 days of protection depending upon application rate and how rapidly fruit is expanding. Consult local spray timing advisories or follow biofix dates based upon pheromone trap catches to time sprays appropriately.</p>	<ul style="list-style-type: none"><li>• <b>Preharvest Interval</b> Do not apply within 14 days of harvest</li><li>• Do not apply more than a total of 64 fl oz of Intrepid 2F (1 lb ai) per acre per year</li><li>• Aerial application is allowed <b>only</b> for the last two applications prior to harvest</li></ul>
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<p>lesser appleworm oriental fruit moth</p>	<p>12 – 16 (0.15 – 0.25 lb a/acre)</p>	<p>For control of light to moderate infestations begin applications before egg hatch of each generation and before the larvae penetrate the fruit. Intrepid 2F provides 10 to 18 days of protection depending upon application rate and how rapidly fruit is expanding. Consult local spray timing advisories or follow biofix dates based upon pheromone trap catches to time sprays appropriately. For continuous moth flight and egg laying use the highest labeled rate. Maintain coverage on the fruit surface with 10 to 18 day re treatment intervals. Alternate or intersperse with other insecticides targeted at the same pest so long as the re treatment interval does not exceed the period of effectiveness of the products being alternated and Intrepid 2F is applied before larvae penetrate the fruit.</p>	
<p>obliquebanded leafroller pandemis leafroller</p>	<p>8 – 16 (0.12 – 0.25 lb a/acre)</p>	<p><b>Spring (overwintering) generation</b> Make 1 to 2 applications during the pink to petal fall period depending upon infestation level. <b>Summer generation</b> Make the first application during the period of peak egg lay to early egg hatch (usually 200 to 400 DD following biofix). Reapply 10 to 18 days later (usually 500 to 700 DD). A higher rate in the rate range and additional applications at 10 to 18 day intervals may be required for heavy infestations, sustained moth flight situations in which it is difficult to achieve thorough coverage, and for quicker knockdown of larvae.</p>	

European grapevine moth eyespotted bud moth fruittree leafroller light brown apple moth redbanded leafroller variegated leafroller		For control of surface or foliar feeding leafroller larvae apply when larvae are feeding Most effective crop protection results from application made at the initiation of egg hatch For heavy infestations continuous moth flights or extended egg hatch use maximum specified rates Maintain coverage with 10 to 18 day re treatment intervals	
tufted apple bud moth	6 – 10 (0 09 0 16 lb a/acre)	For each generation apply at 10 to 30% egg hatch For heavy infestations sustained moth flight or extended residual effectiveness reapply 10 to 18 days later	
spotted tentiform leafminer western tentiform leafminer	8 – 12 (0 12 0 18 lb a/acre)	<b>First generation</b> Apply at pink to petal fall <b>Second third generation</b> Apply at early egg hatch for each generation	
lacanobia fruitworm	12 (0 18 lb a/acre)	Apply at egg hatch or at the first sign of larval infestation Reapply within 10 to 14 days to ensure complete coverage of rapidly expanding fruits or foliage	

**Pomegranate**  
(Not registered in New York)

**Ground Application** Apply a minimum of 50 gpa by conventional ground equipment to trellised trees or trees 10 feet tall or less For trees greater than 10 feet tall use a minimum of 100 gpa Use a spray volume that assures uniform coverage of the infested portions of the treated crop Calibrate equipment to the desired spray volume

**Aerial Application** Apply in a minimum of 20 gpa This method should not be used if the size of the tree or density of the foliage prohibits thorough uniform coverage of the entire tree canopy

Pests	Application Rate fl oz/acre	Application Timing	Restrictions
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<p>European grapevine moth filbert worm light brown apple moth navel orangeworm obliquebanded leafroller omnivorous leafroller</p>	<p>8 - 16 (0.12 - 0.25 lb ai/acre)</p>	<p>Apply when larvae are feeding. Most effective crop protection results from application made at the initiation of egg hatch. The higher rates in the rate range and additional applications at 10 to 18 day intervals may be required for heavy infestations sustained moth flight situations in which it is difficult to achieve thorough coverage and for quicker knockdown of larvae.</p>	<ul style="list-style-type: none"> <li>• <b>Preharvest Interval</b> Do not apply within 7 days of harvest</li> <li>• Do not apply more than 16 fl oz per acre per application or more than a total of 64 fl oz of Intrepid 2F (1 lb ai) per acre per year</li> </ul>
<p>redhumped caterpillar</p>		<p>Apply at initiation of egg hatch or at the first sign of larval infestation. Reapply in 10 to 14 days to ensure complete coverage of rapidly expanding fruits or foliage.</p>	

**Popcorn**  
(Not registered in New York)

**Ground Application** Apply in a minimum of 10 gpa by conventional ground equipment to young crop or small plants. Apply in a minimum of 20 gpa after initiation of tasseling. Use a spray volume that assures uniform coverage of the infested portions of the treated crop. Calibrate equipment to the desired spray volume.

**Aerial Application** Apply in a minimum of 10 gallons per acre.

**Resistance Management** To reduce the potential for resistance development in target pest species, do not make more than two consecutive applications of Intrepid 2F. If additional treatments are required after two consecutive applications of Intrepid 2F, rotate to another class of effective insecticides for at least one application and utilize Integrated Pest Management practices such as routine monitoring, treatment thresholds to time applications, and cultural and biological controls whenever possible. Consult your Dow AgroSciences representative, extension specialist, certified crop advisor, or state agricultural experiment station for information on alternative effective products to use in your area.

Pests	Application Rate fl oz/acre	Application Timing	Restrictions
<p>European corn borer southwestern corn borer</p>	<p>4 - 8 (0.06 - 0.12 lb ai/acre)</p>	<p>Apply at first sign of egg hatch or when infestations reach threshold levels as defined by a cooperative extension service or other qualified professional authorities. Direct application at the whorl for early season (first generation) infestations. Apply as broadcast or multi-nozzle over the row application to mid- and late season infestations.</p>	<ul style="list-style-type: none"> <li>• <b>Preharvest Interval</b> Do not apply within 21 days of harvest of grain and stover. There is no preharvest interval for popcorn forage.</li> <li>• Do not apply more than 8 fl oz per acre per application or more than a total of 64 fl oz of Intrepid 2F (1 lb ai) per acre per year.</li> <li>• Do not apply to popcorn.</li> </ul>

true armyworm western bean cutworm		Apply at first sign of egg hatch (field corn) feeding damage (sweet corn) or when infestations reach threshold levels as defined by a cooperative extension service or other qualified professional authorities Under heavy infestations continuous moth flights or rapid crop growth and development reapply at 5 to 10 day re treatment interval	by aerial ULV • See Rotational Crop Restrictions below
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**Root Vegetables (Subgroups 1A, 1B)<sup>1</sup>**  
(Not registered in New York)

<sup>1</sup>Root vegetables (subgroups 1A 1B) including black salsify carrot celeriac chicory edible burdock garden beet ginseng horseradish parsnip oriental radish radish rutabaga salsify skirret Spanish salsify sugarbeet turnip turnip rooted chervil and turnip rooted parsley

**Ground Application** Apply in a minimum of 10 gpa by conventional ground equipment Use a spray volume that assures uniform coverage of the infested portions of the treated crop Calibrate equipment to the desired spray volume

**Aerial Application** Apply in a minimum of 10 gpa Use a higher carrier volume for heavy infestations and in situations where thorough coverage is difficult to achieve

<b>Pests</b>	<b>Application Rate (fl oz/acre)</b>	<b>Application Timing</b>	<b>Restrictions</b>
armyworms cabbageworms cutworm (suppression only) loopers saltmarsh caterpillar webworms	8 16 (0 12 – 0 25 lb ai/acre)	Apply at egg hatch or when first signs of feeding occur Use a higher rate for heavier infestations and under conditions in which thorough coverage is more difficult Under heavy infestations continuous moth flights and/or egg masses and larvae in all stages of development reapply to protect new growth until moth flights and/or hits subside	<ul style="list-style-type: none"> <li>• <b>Preharvest Interval</b> Do not apply within 1 day of harvest for all root vegetables except sugar beet Do not apply within 7 days of sugarbeet harvest</li> <li>• Do not apply more than a total of 64 fl oz of Intrepid 2F (1 lb ai) per acre per year for all crops except radish</li> <li>• Do not apply more than a total of 32 fl oz of Intrepid 2F (0 5 lb ai) per acre per year for radish</li> <li>• <b>Minimum Re treatment Interval</b> 14 days</li> <li>• See Rotational Crop Restrictions</li> </ul>

**Soybean**  
(Not registered in New York)

**Ground Application** Apply in a minimum spray volume of 10 gpa using calibrated ground application equipment that provides thorough coverage

**Aerial Application** Apply in a minimum spray volume of 5 gpa in equipment that has been properly patterned and calibrated for environmental conditions at the site Use higher water volumes for heavy infestations and in situations where thorough coverage is difficult to achieve

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
armyworms green clover worm saltmarsh caterpillar soybean loopers velvet bean caterpillar	4 - 8 (0.06 - 0.12 lb ai/acre)	Begin applications when first signs of feeding damage appear or when threshold levels of feeding damage occur Use a higher rate for heavier infestations and under conditions in which thorough coverage is more difficult	<ul style="list-style-type: none"> <li>• <b>Preharvest Interval</b> Do not apply within 7 days of harvest of hay and forage or within 14 days of harvest of seed Do not apply more than a total of 64 fl oz of Intrepid 2F (1 lb ai) per acre per year</li> <li>• Do not make more than 4 applications per year</li> <li>• <b>Re Planting Interval</b> A 7 day re planting interval is required for residues of methoxyfenozide</li> </ul>

**Spearmint and Peppermint**  
(Not registered in New York)

**Ground Application** Apply in a minimum of 10 gpa by conventional ground equipment to young crop or small plants Use a spray volume that assures uniform coverage of the infested portions of the treated crop Calibrate equipment to the desired spray volume

**Aerial Application** Apply in a minimum of 5 gpa Calibrate aircraft to assure uniform coverage of the target crop

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
armyworms cutworms loopers	10 - 16 (0.16 - 0.25 lb ai/acre)	Scout crops on a regular basis and treat as soon as economic thresholds have been met Target small larvae and egg masses when possible Use a higher rate in the rate range for high infestations and when extended residual is needed Reapply at 14 to 21 day intervals when there are continuing infestations	<ul style="list-style-type: none"> <li>• <b>Preharvest Interval</b> Do not apply within 14 days of harvest</li> <li>• Do not apply more than 16 fl oz per acre per application or more than a total of 64 fl oz of Intrepid 2F (1 lb ai) per acre per year</li> </ul>

**Stone Fruits (Crop Group 12)<sup>1</sup>**  
(Not registered in New York)

<sup>1</sup>Stone fruits (crop group 12) including apricot cherries (sweet sour) chickasaw plum damson plum Japanese plum nectarine peach plum plumcot prune (fresh)

**Ground Application** Apply in a minimum of 50 gpa by conventional ground equipment to trellised trees or trees 10 feet tall or less For trees greater than 10 feet tall use a minimum of 100 gpa Use a spray volume that assures uniform coverage of the infested portions of the treated crop Calibrate equipment to the desired spray volume

**Aerial Application** Apply in a minimum of 20 gpa This method should not be used if the size of the tree or density of the foliage prohibits thorough uniform coverage of the entire tree canopy

#### Apricots Nectarines Peaches Plums Prunes and Their Hybrids

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
codling moth (suppression only) oriental fruit moth	10 - 16 (0.16 - 0.25 lb ai/acre)	For control of light to moderate infestations begin applications before egg hatch of each generation and before the larvae penetrate the fruit The product provides 10 to 18 days of protection depending upon application rate and how rapidly fruit is expanding Consult local spray timing advisories or follow biofix dates based upon pheromone trap catches to time sprays appropriately For continuous moth flight and egg laying use the highest labeled rate Maintain coverage on the fruit surface with 10 to 18 day re treatment intervals Alternate or intersperse with other insecticides targeted at the same pest so long as the re treatment interval does not exceed the period of effectiveness of the products being alternated and Intrepid 2F is applied before larvae penetrate the fruit	<ul style="list-style-type: none"> <li>• <b>Preharvest Interval</b> Do not apply within 7 days of harvest</li> <li>• Do not apply more than 16 fl oz per acre per application or more than a total of 64 fl oz of Intrepid 2F (1 lb ai) per acre per year</li> </ul>
peach twig borer	8 - 16 (0.12 - 0.25 lb ai/acre)	For each generation apply at initiation of egg hatch before larvae enter the fruit Reapply in 10 to 14 days to ensure complete coverage of rapidly expanding fruits or foliage or under conditions of high infestation or sustained moth flight	

<p>obliquebanded leafroller pandemis leafroller</p>		<p><b>Spring (overwintering) generation</b> Make 1 to 2 applications during the pink to petal fall period depending upon infestation level</p> <p><b>Summer generation</b> Make the first application during the period of peak egg lay to early egg hatch (usually 200 to 400 DD following biofix) Reapply 10 to 18 days later (usually 500 to 700 DD)</p> <p>A higher rate in the rate range and additional applications at 10 to 18 day intervals may be required for heavy infestations sustained moth flight situations in which it is difficult to achieve thorough coverage and for quicker knockdown of larvae</p>	
<p>European grapevine moth fruittree leafroller light brown apple moth omnivorous leafroller redbanded leafroller threelined leafroller tufted apple budmoth variegated leafroller</p>		<p>For control of surface or foliar feeding leafroller larvae apply when larvae are feeding Most effective crop protection results from application made at the initiation of egg hatch</p> <p>For heavy infestations continuous moth flights or extended egg hatch use maximum specified rates Maintain coverage with 10 to 18 day re treatment intervals</p>	
<p>cherry fruitworm green fruitworm lesser appleworm</p>	<p>10 16 (0 16 – 0 25 lb ai/acre)</p>	<p>Apply at initiation of egg hatch or at the first sign of larval infestation Reapply in 10 to 14 days to ensure complete coverage of rapidly expanding fruits or foliage</p>	
<p>redhumped caterpillar</p>	<p>8 16 (0 12 – 0 25 lb ai/acre)</p>	<p>Apply at initiation of egg hatch or at the first sign of larval infestation Reapply in 10 to 14 days to ensure complete coverage of rapidly expanding fruits or foliage</p>	

**Cherries (Sweet and Sour)**

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
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obliquebanded leafroller pandemis leafroller	8 - 16 (0.12 - 0.25 lb ai/acre)	<p><b>Spring (overwintering) generation</b> Make 1 to 2 applications during the pink to petal fall period depending upon infestation level</p> <p><b>Summer generation</b> Make the first application during the period of peak egg lay to early egg hatch (usually 200 to 400 DD following biofix) Reapply 10 to 18 days later (usually 500 to 700 DD)</p> <p>A higher rate in the rate range and additional applications at 10 to 18 day intervals may be required for heavy infestations sustained moth flight situations in which it is difficult to achieve thorough coverage and for quicker knockdown of larvae</p>	<p>• <b>Preharvest Interval</b> Do not apply within 7 days of harvest</p> <p>Do not apply more than 16 fl oz per acre per application or more than a total of 58 fl oz of Intrepid 2F (0.9 lb ai) per acre per year</p>
eyespotted bud moth fruittree leafroller light brown apple moth omnivorous leafroller redbanded leafroller threelined leafroller tufted apple budmoth variegated leafroller		<p>For control of surface or foliar feeding leafroller larvae apply when larvae are feeding. Most effective crop protection results from application made at the initiation of egg hatch. For heavy infestations continuous moth flights or extended egg hatch use maximum specified rates. Maintain coverage with 10 to 18 day re treatment intervals</p>	
cherry fruitworm	10 - 16 (0.16 - 0.25 lb ai/acre)	Apply at initiation of egg hatch or at the first sign of larval infestation. Reapply in 10 to 14 days to ensure complete coverage of rapidly expanding fruits or foliage	
redhumped caterpillar	8 - 16 (0.12 - 0.25 lb ai/acre)		

## Strawberry

(Not registered in New York)

**Ground Application** Apply in a minimum of 10 gpa by conventional ground equipment to young crop or small plants. Apply in a minimum of 20 gpa to densely foliated or difficult to cover crops to ensure thorough coverage. Use a spray volume that assures uniform coverage of the infested portions of the treated crop. Calibrate equipment to the desired spray volume.

**Aerial Application** Apply in a minimum of 10 gpa



Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
armyworms corn earworm (suppression only) cutworms (suppression only)	6 – 12 (0.09 – 0.19 lb ai/acre)	For early season applications to young crops and small plants. Apply at first sign of feeding damage or when infestations reach threshold levels as defined by a cooperative extension service or other qualified professional authorities. For heavy infestations continuous moth flights and/or egg masses and larvae in all stages of development a 10 to 14 day re treatment interval is required to protect new growth until moth flights and/or hits subside.	<ul style="list-style-type: none"> <li>• <b>Preharvest Interval</b> Do not apply within 3 days of harvest</li> <li>• Do not apply more than 12 fl oz per acre per application or more than a total of 64 fl oz of Intrepid 2F (1 lb ai) per acre per year</li> <li>• See Rotational Crop Restrictions</li> </ul>

**Tree Nuts (Crop Group 14)<sup>1</sup> and Pistachios**  
(Not registered in New York)

<sup>1</sup>Tree nuts (crop group 14) including almond, beech nut, Brazil nut, butternut, cashew, chestnut, chinquapin, filbert (hazelnut), hickory nut, macadamia (bush) nut, pecan, pistachio, walnut (black and English)

**Ground Application** Apply in a minimum of 50 gpa by conventional ground equipment to trees 10 feet tall or less. For trees greater than 10 feet tall use a minimum of 100 gpa. Use a spray volume that assures uniform coverage of the infested portions of the treated crop. Calibrate equipment to the desired spray volume.

**Aerial Application** Apply in a minimum of 10 gpa. This method may result in reduced efficacy if the size of the tree or density of the foliage prohibits thorough uniform coverage of the entire tree canopy.

**Almonds**

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
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peach twig borer	8 - 16 (0.12 - 0.25 lb ai/acre)	<p><b>Spring (overwintering) generation</b> Make 1 to 2 applications during the bloom to petal fall period depending upon infestation level</p> <p><b>Summer generation</b> Begin applications at peak moth flight (400 to 450 DD base 50°F following biofix) Reapply at 10 to 18 day intervals under high pressure or sustained moth flight</p> <p>A higher rate in the rate range may be required for extended residual effectiveness high pest infestation levels larger trees or heavy dense foliage</p>	<ul style="list-style-type: none"> <li>• <b>Preharvest Interval</b> Do not apply within 14 days of harvest</li> <li>• Do not apply more than 24 fl oz per acre per application or more than a total of 64 fl oz of Intrepid 2F (1 lb ai) per acre per year</li> </ul>
navel orangeworm	12 - 24 (0.19 - 0.38 lb ai/acre)	Make first application at the initiation of hull split (2 to 5% hull split) Reapply 10 to 14 days later Under heavy infestation reapply a third time 10 to 14 days later	

**Hazelnuts**

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
filbertworm	8 - 16 (0.12 - 0.25 lb ai/acre)	Apply at initiation of egg hatch Reapply at 14 to 21 day intervals under high pressure or sustained moth flight	<ul style="list-style-type: none"> <li>• <b>Preharvest Interval</b> Do not apply within 14 days of harvest</li> <li>Do not apply more than 24 fl oz per acre per application or more than a total of 64 fl oz of Intrepid 2F (1 lb ai) per acre per year</li> </ul>
obliquebanded leafroller		<p><b>Spring (overwintering) generation</b> Make 1 to 2 applications depending upon infestation level</p> <p><b>Summer generation</b> Make the first application during the period of peak egg lay to early egg hatch (200 to 400 DD following biofix) Reapply 10 to 18 days later (usually 500 to 700 DD)</p>	
European grapevine moth filbert leafroller light brown apple moth omnivorous leaf-tier		For control of surface of foliar feeding leafroller larvae apply when larvae are feeding Most effective crop protection results from application made at the initiation of egg hatch	

**Pecans**

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
pecan nut casebearer	4 - 8 (0.06 - 0.12 lb ai/acre)	For each generation apply at initiation of egg hatch (first generation is approximately 8 to 15 days following biofix) Control of first generation may require second application to ensure complete coverage of rapidly expanding nuts and foliage or under conditions or extended egg lay  A higher rate in the rate range may be required for extended residual effectiveness higher pest infestations low crop load larger trees or heavy dense foliage	<ul style="list-style-type: none"> <li>• <b>Preharvest Interval</b> Do not apply within 14 days of harvest</li> <li>• Do not apply more than 16 fl oz per acre per application or more than a total of 64 fl oz of Intrepid 2F (1 lb ai) per acre per year</li> </ul>
hickory shuckworm		For early to mid season infestations reaching threshold levels as defined by state extension specialists or other qualified authorities make applications at the initiation of egg hatch  For late season infestations initiate applications at half shell hardening Reapply at 14 day intervals to shuck split or while nuts are susceptible to heavy infestations	
fall webworm walnut caterpillar		Apply at the first sign of larval infestation	

**Walnuts**

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
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<p>codling moth (suppression only)</p>	<p>12 - 24 (0.19 - 0.38 lb ai/acre)</p>	<p>For each generation apply at initiation of egg hatch (100 to 200 DD following biofox) Control of first generation may require second application (10 to 18 day re treatment interval) to ensure complete coverage of rapidly expanding nuts and foliage After nut growth and foliage expansion slows a 14 to 21 day re treatment interval may be required to provide control of extended moth flight A higher rate in the rate range may be required for extended residual effectiveness high pest infestation levels larger trees or heavy dense foliage</p>	<p><b>Preharvest Interval</b> Do not apply within 14 days of harvest</p> <ul style="list-style-type: none"> <li>Do not apply more than 24 fl oz per acre per application or more than a total of 64 fl oz of Intrepid 2F (1 lb ai) per acre per year</li> </ul>
<p>navel orangeworm</p>	<p>8 - 16 (0.12 - 0.25 lb ai/acre)</p>	<p>Apply at initiation of egg hatch</p>	
<p>fall webworm redhumped caterpillar</p>		<p>Apply at first sign of larval infestation</p>	

**Tree Nut Crops not Specifically Listed Above**

**Restrictions** for control of lepidoptera larvae for which Intrepid 2F is registered

- **Preharvest Interval** Do not apply within 14 days of harvest
- Do not apply more than 24 fl oz per acre per application or more than a total of 64 fl oz of Intrepid 2F (1 lb ai) per acre per year

Performance of Intrepid 2F against pests not listed on this label cannot be warranted nor can crop tolerance in all types and varieties of tree nuts be assured. If unsure the user is advised to treat a few trees to observe for symptoms before treating large blocks of trees. Generally optimum performance against lepidoptera pests (worms) is achieved when Intrepid 2F is applied at the initiation of egg hatch. Reapplication intervals of 10 to 20 days may be required if the plant part(s) to be protected from insect damage is rapidly growing or expanding or if pest infestations are heavy or extended.

**Tropical Tree Fruits<sup>1</sup>**  
(Not registered in New York)

<sup>1</sup>Acerola avocado black sapote canistel fejoa guava jaboticaba longan lychee mamey sapote mango papaya passionfruit pulasan rambutan sapodilla Spanish lime star apple starfruit wax jambu

**Ground Application** Apply in a minimum of 50 gpa by conventional ground equipment to trees 10 feet tall or less. For trees greater than 10 feet tall apply in a minimum of 100 gpa by conventional group equipment. Use a higher carrier volume for heavy infestations and in situations where thorough coverage is difficult to achieve. Use a spray volume that assures uniform coverage of the infested portions of the treated crop. Calibrate equipment to the desired spray volume.

**Aerial Application** Apply in a minimum of 10 gpa Use a higher carrier volume for heavy infestations and in situations where thorough coverage is difficult to achieve

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
lepidopteran larvae including European grapevine moth guava moth ( <i>Argyresthia</i> ) leafrollers light brown apple moth loopers orange tortrix spanworms webbing worms western tussock moth	10 - 16 (0.16 - 0.25 lb ai/acre)	Apply at egg hatch or when first signs of feeding occur Use a higher rate for heavier infestations and under conditions in which thorough coverage is more difficult Under heavy infestations continuous moth flights and/or egg masses and larvae in all stages of development reapply at a 6 to 10 day re treatment interval to protect new growth until moth flights and/or hits subside	<ul style="list-style-type: none"> <li>• Do not apply more than a total of 64 fl oz of Intrepid 2F (1 lb ai) per acre per year</li> <li>• Do not make more than 5 applications per calendar year</li>   <li>• <b>Acerola Feijoa Guava Jaboticaba Passionfruit Starfruit Wax Jambu Preharvest Interval</b> Do not apply within 3 days of harvest <b>Minimum Re treatment Interval</b> 6 days</li>   <li><b>Avocado Preharvest Interval</b> Do not apply within 2 days of harvest <b>Minimum Re treatment Interval</b> 6 days</li>   <li>• <b>Black Sapote Canistel Mamey Sapote Mango Papaya Sapodilla Star Apple Preharvest Interval</b> Do not apply within 3 days of harvest <b>Minimum Re treatment Interval</b> 10 days</li>   <li>• <b>Longan Lychee Pulasan Rambutan Spanish Lime Preharvest Interval</b> Do not apply within 14 days of harvest <b>Minimum Re treatment Interval</b> 10 days</li> </ul>

**Tuberous and Corm Vegetables (Except Potato) (Subgroup 1D)<sup>1</sup>**  
(Not registered in New York)

<sup>1</sup>Tuberous and corm vegetables (except potato) (subgroup 1D) including arracacha arrowroot bitter cassava chayote (root) Chinese artichoke chufa dasheen edible canna ginger Jerusalem artichoke leren sweet cassava sweet potato tanier true yam turmeric yam bean

**Ground Application** Apply in a minimum of 10 gpa by conventional ground equipment Use a spray volume that assures uniform coverage of the infested portions of the treated crop Calibrate equipment to the desired spray volume

**Aerial Application** Apply in a minimum of 10 gpa Use a higher carrier volume for heavy infestations and in situations where thorough coverage is difficult to achieve

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
armyworms cabbageworms cutworm (suppression only) loopers saltmarsh caterpillar webworms	6 - 10 (0.09 - 0.16 lb ai/acre)	Apply at egg hatch or when first signs of feeding occur Use a higher rate for heavier infestations and under conditions in which thorough coverage is more difficult Under heavy infestations continuous moth flights and/or egg masses and larvae in all stages of development reapply to protect new growth until moth flights and/or hits subside	<b>Preharvest Interval</b> Do not apply within 7 days of harvest <ul style="list-style-type: none"> <li>• Do not apply more than a total of 64 fl oz of Intrepid 2F (1 lb ai) per acre per year</li> <li>• Do not make more than 3 applications per acre per year</li> <li>• <b>Minimum Re treatment Interval</b> 14 days</li> <li>• See Rotational Crop Restrictions</li> </ul>

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- 2 Replacement of amount of product used

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**List of Supplemental Labels**

<b>Supplemental Name</b>	<b>EPA Approval Date</b>
Control of Lepidoptera Larvae Infesting Citrus Fruits (Crop Group 10 10)	June 9 2010
Control of Lepidoptera Larvae Infesting Root Vegetables (Subgroups 1A 1B)	New



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# Supplemental Labeling



Dow AgroSciences LLC 9330 Zionsville Road Indianapolis, IN 46268-1054 USA

## Intrepid® 2F

EPA Reg No 62719-442

### Control of Lepidoptera Larvae Infesting Citrus Fruits (Crop Group 10 10)<sup>1</sup>

**ATTENTION**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling  
 This labeling must be in the possession of the user at the time of application  
 Read the label affixed to the container for Intrepid® 2F insecticide before applying Carefully follow all precautionary statements and applicable use directions  
 Use of Intrepid 2F according to this supplemental labeling is subject to all use precautions and limitations imposed by the label affixed to the container for Intrepid 2F

**Directions for Use**

<sup>1</sup>Citrus fruits (crop group 10 10) including Australian desert lime Australian finger lime Australian round lime brown river finger lime calamondin citron citrus hybrids grapefruit Japanese summer grapefruit kumquat lemon lime Mediterranean mandarin mount white lime New Guinea wild lime pummelo russell river lime satsuma mandarin sour orange sweet lime sweet orange tachibana orange Tahiti lime tangelo tangerine (Mandarin) tangor trifoliate orange uniq fruit cultivars varieties and/or hybrids of these

Refer to product label for Product Information Mixing Directions and Application instructions

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
citrus leafminer citrus peelminer cutworms leafrollers orange dog worm	8 - 16 (0.12 - 0.25 lb ai/acre)	Apply at the first observation of the pests on the flushing leaves Reapply no sooner than 14 day intervals	<ul style="list-style-type: none"> <li>• <b>Preharvest Interval</b> Do not apply within 1 day of harvest</li> <li>• Do not apply more than 16 fl oz per acre per application or more than a total of 64 fl oz of Intrepid 2F (1 lb ai) per acre per year</li> </ul>

**Ground Application** Apply a minimum of 50 gallons per acre by conventional ground equipment to trellised trees or trees 10 feet tall or less For trees more than 10 feet tall use a minimum of 100 gallons per acre For low volume applications apply a minimum of 20 gallons per acre by ground equipment Use a spray volume that assures uniform coverage of the infested portions of the treated crop Optimum results are achieved when higher spray volumes are used Calibrate equipment to the desired spray volume When using a new application method or product for the first time treat a small area before applying to larger areas

# Supplemental Labeling



Dow AgroSciences LLC 9330 Zionsville Road Indianapolis, IN 46268-1054 USA

## Intrepid® 2F EPA Reg No 62719 442

### Control of Lepidoptera Larvae Infesting Root Vegetables (Subgroups 1A, 1B)<sup>1</sup> (Not for Use and Distribution in New York State)

**ATTENTION**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling  
This labeling must be in the possession of the user at the time of application  
Read the label affixed to the container for Intrepid® 2F insecticide before applying Carefully follow all precautionary statements and applicable use directions  
Use of Intrepid 2F according to this supplemental labeling is subject to all use precautions and limitations imposed by the label affixed to the container for Intrepid 2F

#### Directions for Use

<sup>1</sup>Root vegetables (subgroups 1A 1B) including black salsify carrot celeriac chicory edible burdock garden beet ginseng horseradish parsnip oriental radish radish rutabaga salsify skirret Spanish salsify sugarbeet turnip turnip rooted chervil and turnip rooted parsley

Refer to product label for Product Information Mixing Directions and Application instructions

Pests	Application Rate (fl oz/acre)	Application Timing	Restrictions
armyworms cabbageworms cutworm (suppression only) loopers saltmarsh caterpillar webworms	8 16 (0.12 – 0.25 lb ai/acre)	Apply at egg hatch or when first signs of feeding occur Use a higher rate for heavier infestations and under conditions in which thorough coverage is more difficult Under heavy infestations continuous moth flights and/or egg masses and larvae in all stages of development reapply to protect new growth until moth flights and/or hits subside	<ul style="list-style-type: none"> <li>• <b>Preharvest Interval</b> Do not apply within 1 day of harvest for all root vegetables except sugar beet Do not apply within 7 days of sugarbeet harvest</li> <li>• Do not apply more than a total of 64 fl oz of Intrepid 2F (1 lb ai) per acre per year for all crops except radish</li> <li>• Do not apply more than a total of 32 fl oz of Intrepid 2F (0.5 lb ai) per acre per year for radish</li> </ul>

**Ground Application** Apply in a minimum of 10 gallons per acre by conventional ground equipment Use a spray volume that assures uniform coverage of the infested portions of the treated crop Calibrate equipment to the desired spray volume

**Aerial Application** Apply in a minimum of 10 gpa Use a higher carrier volume for heavy infestations and in situations where thorough coverage is difficult to achieve

**Spray Adjuvants** The addition of agricultural adjuvants to sprays of Intrepid 2F may improve initial spray deposits redistribution and weatherability Select adjuvants that are recommended and registered for your specific use pattern and follow their use directions When an adjuvant is to be used with this product Dow AgroSciences recommends the use of a Chemical Producers and Distributors Association certified adjuvant Always add adjuvants last in the mixing process

**Note** Drift and runoff from applications of this product may be hazardous to sensitive aquatic invertebrates in water bodies adjacent to the treatment area Refer to the Environmental Hazards section of the product label attached to the product container for required protective measures

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