



RESTRICTED USE PESTICIDE

Toxic to fish, mammals, and aquatic organisms.
For retail sale to and use only by certified applicators or persons under their direct supervision,
and only for those uses covered by the certified applicator's certification.

GROUP 6 INSECTICIDE

Reaper ClearForm SUPPLEMENTAL LABEL

ACTIVE INGREDIENT:

Abamectin: (CAS No. 65195-56-4 and No. 65195-55-3) **2.0%**

OTHER INGREDIENTS:..... **98.0%**

TOTAL..... **100.00%**

1.0 gallon contains 0.15 pound abamectin

KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label find someone to explain it to you in detail.)

This label expires and must not be distributed or used after February 1, 2019.

FIRST AID	
If inhaled:	<ul style="list-style-type: none"> • 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 treatment advice.
If on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If in eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • Call a poison control center or doctor for treatment advice.
If swallowed:	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor for treatment advice. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Have person sip a glass of water if able to swallow. • Do not give anything by mouth to an unconscious person.
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	
For general information on product use, etc., call the National Pesticides Information Center at 1-800-858-7378.	
FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.	

EPA Reg. No. 34704-1078

EPA Est. No. _____

Net Contents 1.0 GAL (3.78 L)

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

This supplemental label must be in possession of the user at the time of application.

Read the label affixed to the container for Reaper ClearForm before applying.

Use of Reaper ClearForm according to this labeling is subject to the use precautions and limitations imposed by the label affixed to the container for Reaper ClearForm.

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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed. Causes moderate eye irritation. **DO NOT** get in eyes or on clothing. Harmful if inhaled or absorbed through the skin. Avoid breathing spray mist. Avoid contact with skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

DIRECTIONS FOR USE RESTRICTED USE PESTICIDE

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.

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 12 hours.

Exception: For grape girdling, cane turning, and tying in grapes, do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 days.

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 over short-sleeved shirt and short pants,
- Chemical-resistant gloves made out of: barrier laminate or butyl rubber ≥ 14mils,
- Chemical-resistant footwear plus socks,
- Protective eyewear,
- Chemical-resistant headgear for overhead exposure.

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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.

Do not reenter treated areas until sprays have dried.

Resistance Management

Some insect or mite pests are known to develop resistance to products after repeated use. Because resistance development cannot be predicted, the use of this product should conform to sound resistance management strategies established for the crop and use area. Loveland Products, Inc. encourages responsible product stewardship to ensure effective long-term control of the insects or mites on this label.

Reaper ClearForm contains a Group 6 miticide/insecticide (abamectin). Insect or mite biotypes with acquired or inherent resistance to Group 6 miticides/insecticides may eventually dominate the pest population if Group 6 miticides/insecticides are used repeatedly as the predominant method of control for targeted species. This may result in partial or total loss of control of those species by Reaper ClearForm or other Group 6 miticides/insecticides. If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect or mite may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area.

In order to maintain susceptibility to this class of chemistry:

- Avoid using Group 6 miticides/insecticides exclusively for season long control of insect or mite species with more than one generation per calendar year.
- For insect or mite species with successive or overlapping generations, apply Reaper ClearForm or other Group 6 miticides/insecticides using a "treatment window" approach. A treatment window is a period of time as defined by the stage of crop development and/or the biology of the pests of concern. Within the treatment window, depending on the length of residual activity, there may either be single or consecutive applications (seed treatment, soil, foliar, unless otherwise stated) of the Group 6 miticides/insecticides. **DO NOT** exceed the maximum Reaper ClearForm allowed per calendar year.
- Following a treatment window of Group 6 miticides/insecticides, rotate to a treatment window of effective products with a different mode of action before making additional applications of Group 6 miticides/insecticides.
- A treatment window rotation, along with other IPM practices for the crop and use area, is considered an effective strategy for preventing or delaying a pest's ability to develop resistance to these classes of chemistry.
- If resistance is suspected, do not reapply Reaper ClearForm or other Group 6 miticides/insecticides.

Other Insect or Mite Resistance Management (IRM) Practices

- Incorporate IPM techniques into your insect or mite control program.
- Monitor treated insect or mite populations for loss of field efficacy.
- Use tank-mixtures or premixes with miticides/insecticides from a different target site of action group as long as the involved products are all registered for the same crop outlet and effective rates are applied.

For additional information on Insect or Mite Resistance Management:

- Contact your local extension specialist, certified crop advisor and/or product manufacturer for additional insect resistance management recommendations.
- Visit the Insecticide Resistance Action Committee (IRAC) on the web at <http://www.irac-online.org/>.

CROP USE DIRECTIONS

BEAN, DRY AND SUCCULENT

Crops: *Cicer arietinum* (chickpea, garbanzo bean); *Lupinus* spp. (including sweet lupine, white sweet lupine, white lupine, and grain lupine); *Phaseolus* spp. (including kidney bean, lima bean, mung bean, navy bean, pinto bean, snap bean, and waxbean); *Vicia faba* (broad bean, fava bean); *Vigna* spp. (including asparagus bean, blackeye pea and cowpea*)

*For use on cowpeas that are grown only for dry seed. **DO NOT** allow livestock to graze cowpea forage and do not harvest cowpea forage or hay for use as livestock feed.

For control of *Liriomyza* leafminers and Spider Mites.

Mix with water as indicated below. Thorough coverage of the crop canopy is essential for optimum results. Inadequate coverage can result in reduced control.

Note:

- Apply Reaper ClearForm with ground application equipment or aircraft.
- For best control, apply Reaper ClearForm with ground application equipment. With aerial application, the resulting control of leafminers and spider mites could be less than with ground application.

Pest	Fl Oz/A
<i>Liriomyza</i> leafminers	8.0 to 16.0
Spider mites	

Instructions:

- Use 8.0 to 12.0 fluid ounces per acre for low to moderate infestations and 13.0 to 16.0 fluid ounces per acre for high infestations.
- **Leafminers and Spider Mites:** Apply when adult leafminer flies or spider mites are first observed and repeat application, as needed, to maintain control within constraints of a sound resistance management program. (See Use Restrictions.)

Use Restrictions:

- **PHI: DO NOT** apply within 7 days of harvest.
- **Application Method:** Ground or aerial application is permitted; however, do not apply with aircraft in New York State.
- **Amount of Water: DO NOT** apply in less than 10.0 gallons water per acre with ground application equipment. **DO NOT** apply in less than 5.0 gallons water per acre with aircraft. Under conditions such as high pest populations, dense foliage, or adverse application conditions (such as high temperatures), use a greater volume of water to ensure adequate coverage.
- **Maximum Amount per Application: DO NOT** apply more than 0.019 pound abamectin per acre (or 16.0 fluid ounces per acre Reaper ClearForm) per application.
- **Application Interval:** Wait at least 6 days before repeating application.
- **Number of Applications: DO NOT** make more than 2 sequential applications of Reaper ClearForm or any other foliarly applied abamectin-containing product.
- **Maximum Amount per Calendar Year: DO NOT** apply more than 0.056 pound abamectin per acre (or 48.0 fluid ounces per acre Reaper ClearForm) per calendar year.

CITRUS FRUIT CROP GROUP 10-10

Crops in this group are: 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; orange, sour; orange, sweet; pummelo; Russell River lime; satsuma mandarin; sweet lime; tachibana orange; Tahiti lime; tangelo; tangerine (mandarin); tangor; trifoliolate orange; ungu fruit; cultivars, varieties, and/or hybrids of these.

For control of Asian citrus psyllid, Broad mite, Citrus bud mite, Citrus leafminer, Citrus rust mite, Citrus thrips, and Twospotted spider mite.

Thorough spray coverage is essential for good Mite and insect control. Spray gallonage may vary depending on size and number of trees per acre as well as density of foliage.

Ground Application

Apply using conventional dilute or concentrate ground application sprayers calibrated to deliver sufficient water for thorough coverage (or outside coverage for Asian citrus psyllid, Citrus leafminer, or Citrus thrips).

Aerial Application

Aerial application is permitted only for control of Citrus leafminer. Aerial application to citrus is not approved in California.

Pest	Dilute Sprays ^a Fl Oz/100 Gal	Concentrate Sprays ^b Fl Oz/A
Asian citrus psylla	—	10.0 to 20.0 ^c
Broad mite	1.0 to 2.0	10.0 to 20.0 ^c
Citrus bud mite	1.0 to 2.0	10.0 to 20.0 ^d
Citrus leafminer	—	5.0 to 20.0 ^e
Citrus rust mite	0.5 to 2.0	5.0 to 20.0 ^c
Citrus thrips	—	10.0 to 20.0 ^f
Twospotted spider mite	1.0 to 2.0	10.0 to 20.0

^a The rate of Reaper ClearForm per 100 gallons is based on a volume of 1000 gallon per acre dilute spray.

^b For concentrate sprays, adjust the dosage to apply an amount per acre equal to that used in full cover dilute spray.

^c Ground application: For best results, use 150 to 300 gallons per acre of spray mix with a minimum of 3.0 gallons per acre of horticultural oil (not a dormant oil) and apply at a ground speed of 1 to 1.5 mph.

^d For best results, use a minimum of 500 gallons per acre of spray mix with a minimum of 0.5% horticultural spray oil (not a dormant oil).

^e For best results, use 100 to 250 gallons per acre of spray mix applied to achieve outside coverage.

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Instructions:

- Applications should be made with a minimum of 0.2% horticultural spray oil (not a dormant oil) in the spray mixture or not less than 1.0 gallon of oil per acre (except when specified differently below).
- **Asian citrus psylla:** Apply to protect newly expanding foliage flush during the spring, summer or fall. Reaper ClearForm will only control adults and nymphs present at the time of application.
- **Citrus bud mite:** For best results, time the spray at "bud swell."
- **Citrus leafminer:** Apply to protect new growth during spring, summer, or fall. (**See Use Restrictions**)
- **Citrus thrips:** Application targeted for Citrus thrips will only control the current generation and must be correctly timed. Apply when economic thresholds have been reached (after egg hatch has begun—preferably early to mid-hatch). (**See Use Restrictions**)
- **Mites:** Apply when Mites first appear during spring, summer, and/or fall.

Use Restrictions:

- **PHI: DO NOT** apply within 7 days of harvest.
- **Application Method:**
 - **To control Citrus leafminer** - Ground or aerial application is permitted; however, do not apply with aircraft to citrus in California. For aerial application use a minimum of 10.0 gallons finished spray volume per acre. Under conditions such as high pest populations, dense foliage, or adverse application conditions (such as high temperatures) use a greater volume of water to insure adequate coverage.
 - **All other pests** - Ground application only. **DO NOT** apply with aircraft.
- **Prohibited Use:** To manage resistance, do not use in citrus nurseries.
- **Application Interval: DO NOT** apply Reaper ClearForm, or any other abamectin containing product, within 30 days of the last treatment.
- Application is not permitted from onset of flowering until after petal fall is complete.
- **Maximum Amount per Calendar Year: DO NOT** apply more than 0.047 pound abamectin per acre (40.0 fluid ounces per acre Reaper ClearForm) per calendar year.
- **DO NOT** make more than 3 applications of Reaper ClearForm, or any other abamectin containing product per calendar year.
- **Grazing: DO NOT** allow livestock to graze in treated grove/orchards.

FRUITING VEGETABLES (EXCEPT CUCURBITS) CROP GROUP 8-10

Crops in this group are: African eggplant; bush tomato; bell pepper; cocona; currant tomato; eggplant; garden huckleberry; goji berry; groundcherry; martynia; naranjilla; okra; pea eggplant; pepino; nonbell pepper; roselle; scarlet eggplant; sunberry; tomatillo; tomato; tree tomato; cultivars, varieties, and/or hybrids of these.

For control of Broad mite, Colorado potato beetle, *Liriomyza* leafminers, Potato psyllid, Spider mites, *Thrips palmi*, Tomato pinworm, Tomato psyllid and Tomato russet mite.

Mix with water as indicated below. Thorough coverage of the crop canopy is essential for optimum results. Inadequate coverage may result in reduced control.

IMPORTANT: Reaper ClearForm may be applied with ground application equipment or aircraft. For best control of Mites, apply Reaper ClearForm with ground application equipment. With aerial application, spray coverage and the resulting control of Mites is less than with ground application. For this reason, the user accepts all liability for the level and duration of control of Mites when Reaper ClearForm is aerially applied.

Pest	Fl Oz/A
Broad mite	8.0 to 16.0
Colorado potato beetle	
<i>Liriomyza</i> leafminers	
Potato psyllid	
Spider mites	
<i>Thrips palmi</i>	
Tomato psyllid	
Tomato russet mite	
Tomato pinworm	16.0

Instructions:

- **Broad, russet, and Spider mite:** Apply when Mites first appear.
- **Mites, Leafminers, *Thrips palmi*, and Colorado potato beetle:** Use 8.0 fluid ounces per acre for low to moderate infestations and 16.0 fluid ounces per acre for severe infestations.
- ***Thrips palmi:*** Apply when *Thrips* are first observed.
- **Tomato pinworm:** Application may be made from the time moth activity is detected up to, but no later than, the time when newly emerged larvae are present.
- Repeat application as necessary to maintain control. (**See Use Restrictions**)
- **Note:** Reaper ClearForm may be used without a wetting agent. Spreading and penetrating surfactants can improve insect control when necessary to improve the wetting of foliage and to smooth out spray deposits, a non-ionic surfactant is recommended. **DO NOT** use binder or sticker-type surfactants.

Use Restrictions:

- **PHI: DO NOT** apply within 7 days of harvest.
- **Application Method:** Ground or aerial application permitted; however do not apply with aircraft in New York State.
- **Prohibited Use:** For resistance management, do not use on fruiting vegetables grown for transplanting.
- **Amount of Water: DO NOT** apply in less than 20.0 gallons water per acre with ground application equipment. **DO NOT** apply in less than 5.0 gallons water per acre with aircraft. Under conditions such as high pest populations, dense foliage, or adverse application conditions (such as high temperatures) use a greater volume of water to insure adequate coverage.
- **Application Interval:** Wait at least 7 days before repeating application, but do not make more than 2 sequential applications of Reaper ClearForm or any other foliarly applied abamectin containing product.
- **Number of Applications: DO NOT** make more than 2 sequential applications of Reaper ClearForm or any other foliarly applied abamectin containing product.
- **Maximum Amount per Calendar Year: DO NOT** apply more than 0.056 pound abamectin per acre (or 48.0 fluid ounces per acre Reaper ClearForm) per calendar year.
- **Maximum Amount per Application: DO NOT** apply more than 0.019 pound abamectin per acre (or 16.0 fluid ounces per acre Reaper ClearForm) per application.

GRAPES AND SMALL FRUIT VINE CLIMBING SUBGROUP (EXCEPT FUZZY KIWIFRUIT) CROP SUBGROUP 13-07F

Crops in this group are: Amur river grape; gooseberry; grape; kiwifruit, hardy; maypop; schisandra berry; cultivars, varieties, and/or hybrids of these.

For control of Pacific spider mite, Twospotted spider mite, Variegated leafhopper, Western grape leafhopper, Western grapeleaf skeletonizer, and Willamette spider mite.

Reaper ClearForm may be applied using conventional ground sprayers calibrated to deliver sufficient water for thorough coverage. Thorough coverage is essential for good Spider mite and insect control. **DO NOT** spray alternate rows. Reaper ClearForm must be applied to both sides of each row for maximum coverage.

Pest	Fl Oz/A
Pacific spider mite	8.0 to 16.0 plus a nonionic surfactant
Twospotted spider mite	
Variegated leafhopper	
Western grape leafhopper	
Western grapeleaf skeletonizer	
Willamette spider mite	

Instructions:

- Use 8.0 to 12.0 fluid ounces per acre for low to moderate infestations and 16.0 fluid ounces for severe infestations.
- Repeat application, if needed. (**See Use Restrictions**)
- **Note:** Reaper ClearForm must be applied in combination with a nonionic surfactant to improve wetting of foliage and to smooth out spray deposits. Spreading and penetrating surfactants can improve insect control. **DO NOT** use binder or sticker-type surfactants. Although Reaper ClearForm has been tested in combination with a nonionic surfactant for safety to grapes, it is impossible to test on all grape varieties under the variety of conditions that may cause crop injury. Therefore, when using Reaper ClearForm in combination with a non-ionic surfactant, carefully follow the **Directions for Use** and **Precautions** on the nonionic surfactant label and in official spray guides.
- **Leafhoppers:** Apply Reaper ClearForm plus a nonionic surfactant using thorough spray coverage for contact knockdown only.
- **Spider mites:** Apply when Mites first appear but before motiles exceed 5 per leaf.
- **Western grapeleaf skeletonizer:** Apply Reaper ClearForm plus a nonionic surfactant when larvae are first observed. For optimum control, apply shortly after egg hatch.

Use Restrictions:

- **PHI: DO NOT** apply within 28 days of harvest.
- **Application Method:** Ground application only.
- **Amount of Water: DO NOT** apply in less than 50.0 gallons water per acre with conventional ground application equipment. When using an electrostatic sprayer, less than 50.0 gallons water per acre may be used; however do not use less than 5.0 gallons water per acre.
- Application is not permitted from onset of flowering until after petal fall is complete.
- **Maximum Amount per Application: DO NOT** apply more than 0.019 pound abamectin per acre (or 16.0 fluid ounces per acre Reaper ClearForm) per application.
- **Application Interval:** If a second application is necessary, wait at least 21 days before repeating application.
- **Number of Applications: DO NOT** make more than 2 applications of Reaper ClearForm or any other foliarly applied abamectin containing product per calendar year.

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- **Maximum Amount per Calendar Year:** **DO NOT** apply more than 0.038 pound abamectin per acre (or 32.0 fluid ounces per acre Reaper ClearForm) per calendar year.
- **Grazing:** **DO NOT** allow livestock to graze in treated vineyards.

GUAVA

Crops in this group are: acerola, feijoa, guava, jaboticaba, passionfruit, starfruit, and wax jambu.

For control of Twospotted spider mite.

Thorough spray coverage is essential for good mite and insect control. Spray gallonage may vary depending on size and number of trees per acre as well as density of foliage.

Ground Application: Apply using conventional dilute or concentrate ground application sprayers calibrated to deliver sufficient water for thorough coverage.

Pest	For Dilute Sprays ^a fl oz/100 gal	For Concentrate Sprays ^b fl oz/A
Twospotted spider mite	1.0 to 2.0	10.0 to 20.0 ^c

^aThe rate of Reaper ClearForm per 100 gallons is based on a volume of 1000 gallons per acre dilute spray.

^bFor concentrate sprays, adjust the dosage to apply an amount per acre equal to that used in full cover dilute spray.

^cGround application: For best results, use 150 to 300 gallons per acre of spray mix with a minimum of 3.0 gallons per acre of horticultural oil (not a dormant oil) and apply at a ground speed of 1 to 1.5 mph.

Instructions:

- Apply Reaper ClearForm with a minimum of 0.20% horticultural spray oil (not a dormant oil) in the spray mixture or not less than 1.0 gallons of oil per acre (except when specified differently below).
- Use 10.0 to 15.0 fluid ounces of product per acre for low to moderate infestations and 15.0 to 20.0 fluid ounces of product per acre for severe infestations.
- **Mites:** Apply when mites first appear during spring, summer, and/or fall.

Use Restrictions:

- **PHI: DO NOT** apply within 7 days of harvest.
- **Application Method:** Ground application only.
- **Amount of Water: DO NOT** apply in less than 50.0 gallons water per acre with conventional ground application equipment. When using an electrostatic sprayer, less than 50.0 gallons water per acre may be used; however, do not use less than 5.0 gallons water per acre.
- **Maximum Amount per Application: DO NOT** apply more than 0.023 pound abamectin per acre (or 20.0 fluid ounces per acre Reaper ClearForm) per application.
- **Application Interval:** If a second application is necessary, wait at least 14 days before repeating application.
- **Number of Applications: DO NOT** make more than 3 applications of Reaper ClearForm or any other foliarly applied abamectin-containing product per calendar year.
- **Maximum Amount per Calendar Year: DO NOT** apply more than 0.07 pound abamectin per acre (60.0 fluid ounces per acre Reaper ClearForm) per calendar year.

HERB (CROP SUBGROUP 19A)

Crops in this subgroup are: Angelica, Balm, Basil, Borage, Burnet, Catnip, Chamomile, Chervil (dried), Chives, Chives (Chinese), Cilantro (leaf), Clary, Coriander (leaf), Costmary, Culantro (leaf), Curry (leaf), Dill weed, Horehound, Hyssop, Lavender, Lemongrass, Lovage (leaf), Marigold, Marjoram (*Origanum* species), Nasturtium, Parsley (dried), Penneyroyal, Rosemary, Rue, Sage, Summer and Winter Savory, Sweet bay, Tansy, Tarragon, Thyme, Wintergreen, Woodruff, and Wormwood.

For control of *Liriomyza* leafminers and Spider mite.

Mix with water as indicated below. Apply thoroughly with ground application equipment as a foliar spray and insure good upper and lower leaf coverage.

Pest	Fl Oz/A
<i>Liriomyza</i> leafminers	8.0 to 16.0
Spider mite	

Instructions:

- Use 8.0 fluid ounces per acre for low to moderate infestations and 16.0 fluid ounces per acre for severe infestations.
- Apply when adult leafminer flies or spider mites are first observed and repeat application, as necessary to maintain control. (**See Use Restrictions**)
- Reaper ClearForm may be used without a wetting agent. When necessary to improve the wetting of foliage and to smooth out spray deposits, a nonionic surfactant is recommended for all crops in the Herb Crop Subgroup except chives. **DO NOT** use a surfactant when applying this product to chives.
- **Note:** Although Reaper ClearForm has been tested in combination with a nonionic surfactant for safety to herbs, it is impossible to test on all herb types and varieties under the variety of conditions that may cause crop injury. Therefore, when using Reaper ClearForm in combination with a nonionic surfactant, carefully follow the **Directions for Use** and **Precautions** on the nonionic surfactant label and in official spray guides.

Use Restrictions:

- **PHI: DO NOT** apply within 14 days of harvest. For chives, do not apply within 7 days of harvest.
- **Application Method:** Apply with ground application equipment.
- **Amount of Water:** Use a minimum of 20.0 gallons water per acre.
- Application is not permitted from onset of flowering until after petal fall is complete.
- **Application Interval:** Wait at least 7 days before repeating application.
- **Maximum Amount per Application: DO NOT** apply more than 0.019 pound abamectin per acre (or 16.0 fluid ounces per acre Reaper ClearForm) per application.
- **Number of Applications: DO NOT** make more than 2 applications of Reaper ClearForm or any other foliarly applied abamectin containing product per single cutting (harvest).
- **Maximum Amount per Calendar Year: DO NOT** apply more than 0.056 pound abamectin per acre (or 48.0 fluid ounces per acre Reaper ClearForm) per calendar year.

LYCHEE

Crops in this group are: longan, lychee, pulasan, rambutan, and Spanish lime.

For control of Twospotted spider mites, *Liriomyza* leafminers, and Thrips.

Thorough spray coverage is essential for good mite and insect control. Spray gallonage may vary depending on size and number of trees per acre as well as density of foliage.

Ground Application: Apply using conventional dilute or concentrate ground application sprayers calibrated to deliver sufficient water for thorough coverage.

Pest	For Dilute Sprays ^a fl oz/100 gal	For Concentrate Sprays ^b fl oz/A
<i>Liriomyza</i> leafminers	1.0 to 2.0	10.0 to 20.0 ^c
Thrips		
Twospotted spider mite		

^aThe rate of Reaper ClearForm per 100 gallons is based on a volume of 1000 gallons per acre dilute spray.

^bFor concentrate sprays, adjust the dosage to apply an amount per acre equal to that used in full cover dilute spray.

^cGround application: For best results, use 150 to 300 gallons per acre of spray mix with a minimum of 3.0 gallons per acre of horticultural oil (not a dormant oil) and apply at a ground speed of 1 to 1.5 mph.

Instructions:

- Apply Reaper ClearForm with a minimum of 0.20% horticultural spray oil (not a dormant oil) in the spray mixture or not less than 1.0 gallon of oil per acre (except when specified differently below).
- Use 10.0 to 15.0 fluid ounces of product per acre for low to moderate infestations and 15.0 to 20.0 fluid ounces of product per acre for severe infestations.
- **Leafminers:** Apply to protect new growth during spring, summer, or fall.
- **Mites:** Apply when mites first appear during spring, summer, and/or fall.
- **Thrips:** Applications targeted for thrips will only control the current generation and must be correctly timed. Apply when economic thresholds have been reached (after egg hatch has begun—preferably early to mid-hatch).

Use Restrictions:

- **PHI: DO NOT** apply within 14 days of harvest.
- **Application Method:** Ground application only.
- **Amount of Water: DO NOT** apply in less than 50.0 gallons water per acre with conventional ground application equipment. When using an electrostatic sprayer, less than 50.0 gallons water per acre may be used; however, do not use less than 5.0 gallons water per acre.
- **Maximum Amount per Application: DO NOT** apply more than 0.023 pound abamectin per acre (or 20.0 fluid ounces per acre Reaper ClearForm) per application.
- **Application Interval:** If a second application is necessary, wait at least 30 days before repeating application.
- **Number of Applications: DO NOT** make more than 2 applications of Reaper ClearForm or any other foliarly applied abamectin-containing product per calendar year.
- **Maximum Amount per Calendar Year: DO NOT** apply more than 0.046 pound abamectin per acre (40.0 fluid ounces per acre Reaper ClearForm) per calendar year.

ONION, GREEN CROP SUBGROUP 3-07B

Crops in this group are: chive, fresh leaves; chive, Chinese, fresh leaves; *Elegans* hosta; fritillaria, leaves; kurrat; lady's leek; leek; leek, wild; onion, Beltville bunching; onion, fresh; onion, green; onion, macrostem; onion, tree, tops; onion, Welsh, tops; shallot, fresh leaves; cultivars, varieties, and/or hybrids of these.

For control of *Liriomyza* leafminers and Thrips.

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Mix with water as indicated below. Thorough coverage of the crop canopy is essential for optimum results. Inadequate coverage can result in reduced control.

- Note:**
- Apply Reaper ClearForm with ground application equipment or aircraft.
 - For best control apply Reaper ClearForm with ground application equipment. With aerial application, the resulting control of leafminers and thrips could be less than with ground application.

Pest	Fl Oz/A
<i>Liriomyza</i> leafminers Thrips	8.0 to 16.0

Instructions:

- Use 8.0 to 12.0 fluid ounces per acre for low to moderate infestations and 13.0 to 16.0 fluid ounces per acre for high infestations.
- Leafminers:** Apply when adult leafminer flies are first observed and repeat application, as needed, to maintain control within constraints of a sound resistance management program. **(See Use Restrictions.)**
- Thrips:** Apply in a thrips management program and when thrips are at economic threshold. Repeat application, as needed, to maintain control within constraints of a sound resistance management program. **(See Use Restrictions.)** **DO NOT** use Reaper ClearForm as a rescue treatment for thrips control.
- Note:** Add a non-ionic activator type wetting, spreading and/or penetrating adjuvant approved for use on bulb onion. **DO NOT** use binder or sticker type adjuvants. Tank-mixing with products that have binder or sticker type formulations can reduce Reaper ClearForm performance. **(See Use Information and Use Restrictions.)**

Use Restrictions:

- PHI: DO NOT** apply within 7 days of harvest.
- Application Method:** Ground or aerial application permitted; however, do not apply with aircraft in New York State or California.
- Amount of Water: DO NOT** apply in less than 20.0 gallons water per acre with ground application equipment. **DO NOT** apply in less than 5.0 gallons water per acre with aircraft. Under conditions such as high pest populations, dense foliage, or adverse application conditions (such as high temperatures), use a greater volume of water to ensure adequate coverage.
- Maximum Amount per Application: DO NOT** apply more than 0.019 pound abamectin per acre (or 16.0 fluid ounces per acre Reaper ClearForm) per application.
- Application Interval:** Wait at least 7 days before repeating application.
- Number of Applications:** Make 2 consecutive applications of Reaper ClearForm then rotate to a chemistry with a different mode of action. Make at least 2 applications of a chemistry with a different mode of action before making additional Reaper ClearForm applications. **DO NOT** make more than 2 sequential applications of Reaper ClearForm or any other foliarly applied abamectin-containing product.
- Maximum Amount per Calendar Year: DO NOT** apply more than 0.076 pound abamectin per acre (or 64.0 fluid ounces per acre Reaper ClearForm) per calendar year.

PAPAYA

Crops in this group are: black sapote, canistel, mamey sapote, papaya, sapodilla, and star apple.

For control of Twospotted spider mites.

Pest	Dilute Sprays ^a Fl Oz/100 Gal	Concentrate Sprays ^b Fl Oz/A
Twospotted spider mite	1.0 to 2.0	10.0 to 20.0 ^c

^aThe rate of Reaper ClearForm per 100 gallons is based on a volume of 1,000 gallons per acre dilute spray.

^bFor concentrate sprays, adjust the dosage to apply an amount per acre equal to that used in full cover dilute spray.

^cGround application: For best results, use 150 to 300 gallons per acre of spray mix with a minimum of 3.0 gallons per acre of horticultural oil (not a dormant oil) and apply at a ground speed of 1 to 1.5 mph.

Instructions:

- Apply Reaper ClearForm with a minimum of 0.20% horticultural spray oil (not a dormant oil) in the spray mixture or not less than 1.0 gallon of oil per acre (except when specified differently below).
- Use 10.0 to 15.0 fluid ounces of product per acre for low to moderate infestations and 15.0 to 20.0 fluid ounces of product per acre for severe infestations.
- Mites:** Apply when mites first appear during spring, summer, and/or fall.

Use Restrictions:

- DO NOT** apply to mango.
- PHI: DO NOT** apply within 3 days of harvest.
- Application Method:** Ground application only.
- Amount of Water: DO NOT** apply in less than 50.0 gallons water per acre with conventional ground application equipment. When using an electrostatic sprayer, less than 50.0 gallons water per acre may be used; however, do not use less than 5.0 gallons water per acre.
- Maximum Amount per Application: DO NOT** apply more than 0.023 pound abamectin per acre (or 20.0 fluid ounces per acre Reaper ClearForm) per application.
- Application Interval:** If a second application is necessary, wait at least 14 days before repeating application.
- Number of Applications: DO NOT** make more than 3 applications of Reaper ClearForm or any other foliarly applied abamectin-containing product per calendar year.
- Maximum Amount per Calendar Year: DO NOT** apply more than 0.070 pound abamectin per acre (60.0 fluid ounces per acre Reaper ClearForm) per calendar year.

PINEAPPLE

For control of Twospotted spider mite.

Pest	Fl Oz/A
Twospotted spider mite	10.0 to 20.0

Instructions:

Use 10.0 to 15.0 fluid ounces per acre for low to moderate infestations and 15.0 to 20.0 fluid ounces per acre for high infestations.

Use Restrictions:

- PHI: DO NOT** apply within 16 weeks of harvest.
- Application Method:** Ground application only.
- Amount of Water: DO NOT** apply in less than 50.0 gallons water per acre with conventional ground application equipment. When using an electrostatic sprayer, less than 50.0 gallons water per acre may be used; however, do not use less than 5.0 gallons water per acre.
- Maximum Amount per Application: DO NOT** apply more than 0.023 pound abamectin per acre (or 20.0 fluid ounces per acre Reaper ClearForm) per application.
- Application Interval:** If a second application is necessary, wait at least 7 days before repeating application.
- Number of Applications: DO NOT** make more than 2 applications of Reaper ClearForm or any other foliarly applied abamectin-containing product per calendar year.
- Maximum Amount per Calendar Year: DO NOT** apply more than 0.046 pound abamectin per acre (40.0 fluid ounces per acre Reaper ClearForm) per calendar year.

POME FRUIT CROP GROUP 11-10

Crops in this group are: apple; azarole; crabapple; loquat; mayhaw; medlar; pear; pear, Asian; quince; quince, Chinese; quince, Japanese; tejocote; cultivars, varieties, and/or hybrids of these.

For control of European red mite, McDaniel spider mite, Pear psylla, Pear rust mite, Tentiform leafminer, Twospotted spider mite, White apple leafhopper, and Yellow mite.

Reaper ClearForm may be applied using conventional dilute or concentrate ground application sprayers calibrated to deliver sufficient water for thorough coverage. Gallons of spray will vary with size and number of trees per acre and density of foliage. In any case, thorough coverage is essential for good spider mite and insect control.

NOTE:

- For best results, apply in combination with horticultural spray oil (not a dormant oil) as directed. Applications without horticultural spray oil may result in reduced efficacy and/or residual control.
- When using Reaper ClearForm plus horticultural spray oil, carefully follow the Directions for Use and Precautions on the horticultural spray oil label as well as the precautions in official spray guides or on product labels. For example, applying Reaper ClearForm plus horticultural spray oil fewer than 14 days before or after applying Captan® can result in phytotoxicity and crop loss.

Pest	Dilute Sprays ^a Fl Oz/100 Gal	Concentrate Sprays ^b Fl Oz/A
European red mite McDaniel spider mite Pear psylla Pear rust mite Tentiform leafminer Twospotted spider mite White apple leafhopper Yellow mite	2.5 to 5.0	10.0 to 20.0

^aThe rate of Reaper ClearForm per 100 gallons is based on a volume of 400 gallons per acre dilute spray.

^bTo determine the amount of product per acre for concentrate sprays, first determine the amount that would be required in a full cover dilute spray. Use the same amount of product per acre in concentrate sprays as would be required for the dilute sprays to the same orchard/grove. This may result in use of less than 10.0 fluid ounces per acre on small trees.

Instructions:

- Apply Reaper ClearForm when spider mite or insect thresholds are reached.

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- A second application may be made if needed to maintain control. (See Use Restrictions.)
- Use a minimum of 0.25% horticultural spray oil (not a dormant oil) in the dilute spray mixture and not less than 1.0 gallon of horticultural spray oil per acre in the final finished spray.

Use Restrictions:

- **PHI: DO NOT** apply within 28 days of harvest.
- **Application Method:** Ground application only. **DO NOT** apply with aircraft.
- **Amount of Water: DO NOT** apply in less than 40.0 gallons water per acre.
- Application is not permitted from onset of flowering until after petal fall is complete.
- **Maximum Amount per Application: DO NOT** apply more than 0.023 pound abamectin per acre (or 20.0 fluid ounces per acre Reaper ClearForm) per application.
- **Application Interval:** If a second application is necessary, wait at least 21 days before repeating application.
- **Number of Applications: DO NOT** make more than 2 applications of Reaper ClearForm or any other foliarly applied abamectin-containing product per calendar year.
- **Maximum Amount per Calendar Year: DO NOT** apply more than 0.047 pound abamectin per acre (or 40.0 fluid ounces per acre Reaper ClearForm) per calendar year.
- **Grazing: DO NOT** allow livestock to graze in treated orchards.

STONE FRUIT CROP GROUP 12-12

Crops in this group are: apricot, Japanese; capulin; cherry, black; cherry, Nanking; cherry, sweet; cherry, tart; Jujube, Chinese; nectarine; peach; plum; plum, American; plum, beach; plum, Canada; plum, cherry; plum, Chickasaw; plum, Damsen; plum, Japanese; plum, Klamath; plum, prune; plumcot; sloe; cultivars, varieties, and/or hybrids of these.

For control of European spider mite, Pacific spider mite, and Twospotted spider mite.

Reaper ClearForm may be applied using conventional dilute or concentrate sprayers calibrated to deliver sufficient water for thorough coverage. Gallons of spray will vary with size and number of trees per acre and density of foliage. In any case, thorough coverage is essential for good Spider mite control.

Pest	Dilute Sprays ^a Fl Oz/100 Gal	Concentrate Sprays ^b Fl Oz/A
European red mite	2.5 to 5.0	10.0 to 20.0
Pacific spider mite		
Twospotted spider mite		

^a The rate of Reaper ClearForm per 100 gallons is based on the volume of 400 gallons per acre dilute spray.

^b To determine the amount of product per acre for concentrate sprays, first determine the amount that would be required in a full cover dilute spray. Use the same amount of product per acre in concentrate spray as would be required for the dilute sprays to the same orchard/grove. This may result in use of less than 10.0 fluid ounces per acre on small trees.

Instructions:

- Apply when Mites first appear.
- A second application may be made, if needed, to maintain control. (See Use Restrictions)
- Always apply Reaper ClearForm in combination with a non-ionic surfactant that spreads on and/or penetrates the leaf cuticle, or apply with horticultural spray oil (not a dormant oil).
- **NOTE:**
 1. A nonionic surfactant that spreads on and/or penetrates the leaf cuticle can improve insect control. Although Reaper ClearForm has been tested in combination with non-ionic surfactants for safety to stone fruit, it is impossible to test on all safety to stone fruit, it is impossible to test on all stone fruit varieties under the variety of conditions that may cause crop injury. Therefore, when using Reaper ClearForm in combination with a nonionic surfactant, carefully follow the Directions for Use and Precautions on the surfactant label and in official spray guides.
 2. A horticultural oil (not a dormant oil) may improve efficacy and can be used but it may increase the possibility of phytotoxicity to foliage and fruit.
- Use nonionic surfactants at the manufacturer's recommended rate.
- Use a minimum of 0.25% horticultural spray oil (not a dormant oil) in the dilute spray mixture and not less than 1.0 gallon of horticultural spray oil per acre in the final finished spray.

Use Restrictions:

- **PHI: DO NOT** apply within 21 days of harvest.
- **Application Method:** Ground application only. **DO NOT** apply with aircraft.
- **Amount of Water: DO NOT** apply in less than 40.0 gallons water per acre.
- **Maximum Amount per Application: DO NOT** apply more than 0.023 pound abamectin per acre (or 20.0 fluid ounces per acre Reaper ClearForm) per application.
- **Application Interval:** If a second application is needed, wait at least 21 days before repeating application.
- Application is not permitted from onset of flowering until after petal fall is complete.
- **Number of Applications: DO NOT** make more than 2 applications of Reaper ClearForm or any other foliarly applied abamectin containing product per calendar year.
- **Maximum Amount per Calendar Year: DO NOT** apply more than 0.047 pound abamectin per acre (or 40.0 fluid ounces per acre Reaper ClearForm) per calendar year.
- **Grazing: DO NOT** allow livestock to graze in treated orchards.

STRAWBERRIES, LOW GROWING BERRY CROP SUBGROUP 13-07G

Crops in this group are: bearberry; bilberry; blueberry, lowbush; cloudberry; cranberry; lingonberry; muntries; partridgeberry; strawberry; cultivars, varieties, and/or hybrids of these.

For control of Strawberry spider mite and Twospotted spider mite.

Mix with water as indicated below. Apply with ground application equipment as a foliar spray and insure thorough coverage on upper and lower leaf surfaces. Adjust spray volume and nozzle placement to insure maximum coverage of tops and undersides of leaves.

Pest	Fl oz/A
Strawberry spider mite	16.0
Twospotted spider mite	

Instructions:

- Make 2 applications 7 to 10 days apart when Mites first appear. Repeat this application sequence, if needed, to maintain control. (See Use Restrictions)
- **Note:** Reaper ClearForm may be used without a wetting agent. When necessary to improve the wetting of foliage and to smooth out spray deposits, a nonionic surfactant is recommended.

Use Restrictions:

- **PHI: DO NOT** apply within 3 days of harvest.
- **Application Method:** Ground application only. **DO NOT** apply with aircraft.
- **Prohibited Use:** For resistance management purposes, do not use in strawberry nurseries.
- **Amount of Water: DO NOT** apply in less than 50.0 gallons water per acre with conventional ground application equipment. When using electrostatic sprayers do not apply in less than 10.0 gallons water per acre.
- **Maximum Amount per Application: DO NOT** apply more than 0.019 pound abamectin per acre (or 16.0 fluid ounces per acre Reaper ClearForm) per application.
- **Application Interval:** Wait at least 21 days after the second application before repeating application.
- **Maximum Amount per Calendar Year: DO NOT** apply more than 0.075 pound abamectin per acre (or 64.0 fluid ounces per acre Reaper ClearForm) per calendar year.

TREE NUTS CROP GROUP 14-12

Crops in this group are: African nut-tree; almond; beechnut; Brazil nut; Brazilian pine; bunya; bur oak; butternut; Cajou nut; candlenut; cashew; chestnut; chinquapin; coconut; coquito nut; dika nut; ginkgo; Guiana chestnut; hazelnut (filbert); heartnut; hickory nut; Japanese horse-chestnut; macadamia nut; mongongo nut; monkey-pot; monkey puzzle nut; Okari nut; Pachira nut; peach palm nut; pecan; pequi; Pili nut; pine nut; pistachio; Sapucaia nut; tropical almond; walnut, black; walnut, English; yellowhorn; cultivars, varieties, and/or hybrids of these.

For control of European red mite, Pacific spider mite, Strawberry spider mite, and Twospotted spider mite.

Reaper ClearForm may be applied using conventional dilute or concentrate sprayers calibrated to deliver sufficient water for thorough coverage. Gallons of spray will vary with size and number of trees per acre and density of foliage. In any case, thorough coverage is essential for good Spider mite and insect control.

Pest	Dilute Sprays ^a Fl Oz/100 Gal	Concentrate Sprays ^b Fl Oz/A
European red mite	2.5 to 5.0	10.0 to 20.0
Pacific spider mite		
Strawberry spider mite		
Twospotted spider mite		

^a The rate of Reaper ClearForm per 100 gallons based on a volume of 400 gallons per acre dilute spray.

^b To determine the amount of product per acre for concentrate sprays, first determine the amount that would be required in a full cover dilute spray. Use the same amount of product per acre in concentrate sprays that would be required for the dilute sprays to the same orchard/grove. This may result in use of less than 10.0 fluid ounces per acre on small trees.

Instructions:

- Always use Reaper ClearForm in combination with a horticultural spray oil (not a dormant oil) approved for use on tree nuts. Use a minimum of 0.25% horticultural spray oil (not a dormant oil) in the dilute spray mixture and not less than 1.0 gallon of horticultural spray oil per acre in the final finished spray.
- Apply Reaper ClearForm when Spider mites first appear. Residual Spider mite control is greater from spray deposits on newer leaves compared to older leaves.

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- A second application may be made, if needed, to maintain control. (See Use Restrictions.)

Use Restrictions:

- **PHI: DO NOT** apply within 21 days of harvest.
- **Application Method:** Ground application only. **DO NOT** apply with aircraft.
- **Amount of Water: DO NOT** apply in less than 40.0 gallons water per acre.
- Application is not permitted from onset of flowering until after petal fall is complete.
- **Application Interval:** If a second application is necessary, wait at least 21 days before repeating application.
- **Maximum Amount per Application: DO NOT** apply more than 0.023 pound abamectin per acre (or 20.0 fluid ounces per acre Reaper ClearForm) per application.
- **Applications per Calendar Year: DO NOT** make more than 2 applications of Reaper ClearForm or any other foliarly applied abamectin containing product per calendar year.
- **Maximum Amount per Calendar Year: DO NOT** apply more than 0.047 pound abamectin per acre (or 40.0 fluid ounces per acre Reaper ClearForm) per calendar year.
- **Grazing: DO NOT** allow livestock to graze in treated groves/orchards.

SPECIMEN

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