Leafy Vegetables

Endive, Herbs, Lettuce, Parsley, and Spinach

<table>
<thead>
<tr>
<th>Varieties</th>
<th>Endive</th>
<th>Full Heart Batavian, Green Curled Ruffoc</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Leaf Lettuce</td>
<td>Tiara, Glossy Green, Green Wave, New Red Fire, Sierra, Vulcan, Tango (oakleaf), Lolla Rossa</td>
</tr>
<tr>
<td></td>
<td>Butterhead</td>
<td>Buttercunch, Esmeralda, Ermosa (for trial)</td>
</tr>
<tr>
<td></td>
<td>Head Lettuce</td>
<td>Ithaca, Maverick (for trial), Montello (for trial)</td>
</tr>
<tr>
<td></td>
<td>Spinach</td>
<td>Bloomsdale Long Standing (spring), Early Hybrid No. 7 (fall), Early Hybrid No. 10 (fall), Old Dominion (fall), Virginia Savoy (fall), Tyee, Melody, Decatur, Unipak 151 (semi-savoy)</td>
</tr>
</tbody>
</table>

Disease Control

**Botrytis Gray Mold**

In greenhouse production, avoid condensation on foliage by providing adequate ventilation within the enclosure and avoiding overcrowding plants.

**Recommended Products**

Botran 75W® or Botran 5F® at planting. Rate depends on crop and application method. *Lettuce and endive only.*

Endura® 8-11 oz. per acre. 14-day PHI. *Lettuce only.*

Fontelis® at 14-24 fl. oz. per acre. 3-day PHI.

Merivan® at 8-11 fl. oz. per acre. 1-day PHI.

Switch 62.5WG® at 11-14 oz. per acre. 0-day PHI.

**Damping-Off**

Conditions that favor rapid germination limit damping off severity. Avoid excessive irrigation and poorly drained soils. Good sanitation is critical to avoiding damping-off.

**Recommended Products**

Previcur Flex® See label for rates and greenhouse uses. *For damping-off of lettuce caused by Pythium and Phytophthora.*

Ridomil Gold SL® at 1-2 pts. per acre applied pre-plant, to control damping-off.

**Downy Mildew, White Rust**

Plant downy mildew-resistant varieties.

**Recommended Products**

Actigard® at the following rates:

- **Spinach**: 0.5-0.75 oz. per acre.
- **Lettuce**: 0.75-1 oz. per acre. *Downy mildew only.*

Not for herbs. 7-day PHI.

Agri-Fos 50WP® at 1.67 fl. oz. per gal. of water. *Not for herbs. Downy mildew only.* 0-day PHI.

Aliette® at 2-5 lbs. per acre. 3-day PHI.

Dithane F-45® at 1.2-1.6 qts. per acre. *Downy mildew on lettuce only.* 10-day PHI for head lettuce. 14-day PHI for leaf lettuce.

This is a reduced-risk pesticide. See page 36 for details.

Spacing

These crops can have a common between-row spacing for convenience in cultivating.

**Spinach**: Rows 12 to 18 inches apart. Plants 4 to 6 per foot of row. Seed 12 to 20 pounds per acre.

**Lettuce and Endive**: Rows 12 to 15 inches apart. Plants 10 to 16 inches apart in row. Seed 1 to 2 pounds per acre.

Fertilizing

**Lime**: To maintain soil pH of 6.5 to 6.8. Spinach is particularly sensitive to soil acidity.

**Preplant**: N: 60 pounds per acre. P₂O₅: 0 to 150 pounds per acre. K₂O: 0 to 200 pounds per acre. Adjust according to soil type, previous management, and soil test results for your state.

**Sidedress N**: for soils with more than 3 percent organic matter and following soybeans, alfalfa, or a grass-legume hay crop, apply 30 pounds N per acre. For soils with less than 3 percent organic matter and the above rotation, apply 45 pounds N per acre. Following corn, rye, oats, wheat, or a vegetable crop, apply 60 pounds N per acre. Use a total of 90 to 120 pounds N per acre for culinary herbs. For herbs grown for seeds, such as coriander, fennel, and dill, use 60 to 90 pounds N acre.

Varieties

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This is a reduced-risk pesticide. See page 36 for details.
**Leafy Vegetables - Weed Control**

**Recommended Products**

**Botran 75W® or Botran 5F®.** Rate varies by application method. *Lettuce drop only.*

**Endura 70WG®** at 8-11 oz. per acre. *Lettuce only.* Bottom rot is suppression. 14-day PHI.

**Fontelis®** at 16-24 fl. oz. per acre. *Lettuce drop only.* 3-day PHI.

**Merivon®** at 8-11 fl. oz. per acre. *Lettuce drop only.* 1-day PHI.

**Switch 62.5WG®** at 11-14 oz. per acre. *Lettuce drop only.* 0-day PHI.

**Fusarium Wilt (basil)**

Basil varieties with Fusarium wilt resistance are available.

**Recommended Products**

**Gramoxone Inteon 2L®** at 2-4 pts. per acre. *Endive and lettuce only.* Not for spinach, parsley, radicchio, or herbs. Include 1 qt. of COC or 4-8 fl. oz. of nonionic surfactant per 25 gallons of spray solution. Apply before or after seeding but before crop emerges. **RUP.**
Glyphosate products at 0.75-3.75 lbs. acid equivalent (ae) per acre. Basil, endive, Florence fennel, lettuce, parsley, radicchio, and spinach only. Use formulations containing 3 lbs. ae per gal. (4 lbs. isopropylamine salt per gal.) at 1-5 qts. per acre, or formulations containing 4.5 lbs. ae per gal. (5 lbs. potassium salt per gal.) at 0.66-3.3 qts. per acre. Broadcast before seeding, or apply between crop rows with wipers or hooded or shielded sprayers. Use low rate for annuals and higher rates for perennials. See label for suggested applications volume and adjuvants. 14-day PHI.

Preemergence Broadleaves and Grasses

Recommended Products

Balan 60DF® at 2.2-5.5 lbs. per acre. Lettuce only. Apply and incorporate before seeding or transplanting.

Dual Magnum® at 0.33-1 pt. per acre. Spinach in Indiana and Ohio only. Apply after seeding before crop emerges. Incorporation is not recommended. Do not exceed 1 pt. per acre per crop or 1 application per crop. 50-day PHI.

Kerb 50WP® at the following rates:

Lettuce only: 2-3 lbs. per acre.

Lettuce only: up to 4 lbs. per acre. Use lower rate on coarse soils. Apply before or after seeding but before crop emerges.

May also be applied postemergence to endive and crisphead lettuce. Mechanical incorporation or rainfall required for effectiveness. Do not exceed 1 application per crop per year. 55-day PHI. RUP.

Lorox 50DF® at 1.5-3 lbs. per acre. Parsley only and east of the Mississippi River only. Do not use on sand, loamy sand, or soils with less than 1% organic matter. Apply after seeding before crop emerges. On muck soils, may be applied at 1 lb. per acre to control small emerged weeds after parsley has 3 true leaves. Do not exceed 3 lbs. per acre per season. 30-day PHI.

Trifluralin products at 0.5-0.75 lb. a.i. per acre. Apply 4EC formulations at 1-1.5 pts. per acre. Endive and radicchio only. Not for Florence fennel, herbs, lettuce, spinach, or parsley. Use lowest rate on coarse soils. Apply and incorporate before planting. Not effective on soils with high organic matter.

Preemergence Grasses

Recommended Products

Prefar 4E® at 5-6 qts. per acre. Lettuce, endive, Florence fennel, and radicchio only. Not for herbs or spinach. Use low rate on soils with less than 1% organic matter. Apply and incorporate before planting, or apply after seeding before crop emerges and irrigate within 24 hours.

Postemergence Broadleaves and Grasses

Recommended Products

Glyphosate products. See details above for Burndown or Directed/Shielded Applications.

Postemergence Broadleaves

Recommended Products

Aim EC® at 0.5-2 fl. oz. per acre. Apply with hooded sprayers as a directed application between crop rows. Use COC or NIS. Weeds must be actively growing and less than 4 inches tall. Do not allow spray to contact crop. Do not exceed 6.1 fl. oz. per acre per season.

Spin-Aid 1.3E® at 3-6 pts. per acre in 11-22 gals. of water. For spinach grown for processing or seed only. Apply to spinach with 4 true leaves to avoid injury. Do not apply if spinach is stressed. Does not control pigweed. 40-day PHI.

Stinger 3L® at 4-8 fl. oz. per acre. Spinach only. Controls mainly composites and nightshade. Do not exceed 8 oz. per acre per year. 21-day PHI.

Postemergence Grasses

Recommended Products

Clethodim products at the following rates:

Select Max® at 9-16 fl. oz. per acre. Use Select Max® with 8 fl. oz. of NIS per 25 gals. of spray solution (0.25% v/v). Maximum 64 fl. oz. Select Max® per acre per season.

2EC formulations of clethodim products at 6-8 fl. oz. per acre. Use 2EC formulations with 1 qt. of COC per 25 gals. of spray solution (1% v/v). Maximum 32 fl. oz. Select 2EC® per acre per season.

Herbs may vary in sensitivity. Test on a small area before applying to entire crop. Apply to actively growing grass. Wait at least 14 days between applications. 14-day PHI for lettuce and spinach. 30-day PHI for Florence fennel.

Poast® 1.5E at the following rates:

Endive, dill, Florence fennel, lettuce, parsley, radicchio, and spinach: 1-1.5 pts. per acre.

Dill: up to 2.5 pts. per acre. Do not exceed 5 pts. per acre per season.

Not for herbs other than dill. Use with 1 qt. of COC per acre. Spray on actively growing grass. Do not exceed 3 pts. per acre per season. 14-day PHI for dill. 15-day PHI for leaf lettuce, spinach, endive, and parsley. 30-day PHI for fennel, head lettuce, and radicchio.
### Herbicides for Leafy Vegetables

<table>
<thead>
<tr>
<th>Product (REI/PHI)</th>
<th>Common Name</th>
<th>Timing and Application Location Relative to Crop</th>
<th>Incorporation</th>
<th>Timing Relative to Weeds</th>
<th>Weed Groups Controlled</th>
<th>Crops²</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Preemergence</td>
<td>Postemergence</td>
<td>Postemergence</td>
<td>Annual grasses</td>
<td>Small-seeded broadleaves</td>
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<tr>
<td>Gramoxone Inteon 2L⁺ (12h to 24h)</td>
<td>paraquat</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
<td>X</td>
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<tr>
<td>Roundup⁺, others (12h/14d)</td>
<td>glyphosate</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
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<tr>
<td>Aim EC⁺ (12h)</td>
<td>carfentrazone</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Balan 60DF⁺ (12h/-)</td>
<td>benefin</td>
<td>X</td>
<td>X</td>
<td>Yes</td>
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<td>X</td>
</tr>
<tr>
<td>Dual Magnum⁺ (24h/50d to 60d)</td>
<td>s-metolachlor</td>
<td>X</td>
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</tr>
<tr>
<td>Kerb 50WP⁺ (24h/55d)</td>
<td>pronamide</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Lorox 50DF⁺ (24h/30d)</td>
<td>linuron</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Treflan⁺, others (12h/-)</td>
<td>trifluralin</td>
<td>X</td>
<td></td>
<td>Yes</td>
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<td>Spin-Aid⁺ (12h/40d)</td>
<td>phenmediphan</td>
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<tr>
<td>Stinger⁺ (12h/21d)</td>
<td>clopyralid</td>
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<tr>
<td>Prefar 4E⁺ (12h/-)</td>
<td>bensulide</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<td>X</td>
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<tr>
<td>Select Max⁺, others (12h/14d to 32 d)</td>
<td>clethodim</td>
<td>X</td>
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<td>X</td>
<td>X</td>
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<tr>
<td>Poast⁺ (12h/14d to 30d)</td>
<td>sethoxydim</td>
<td>X</td>
<td></td>
<td></td>
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<td>X</td>
</tr>
</tbody>
</table>

¹For effectiveness against specific weeds, see Table 26 on page 63, and read label. This table does not include all label information. Be sure to read and follow all instructions and precautions on the herbicide label. Herbicides can cause serious crop injury and yield loss if not used properly.

²X=may be used for that crop. *=Processing crops only.
Insect Control

Aphids, Leafminers, Mites
Treat when insects reach the economic thresholds described below.

Seedlings
Aphids
2 per plant
Leafminers
50% of plants infested

Established Plants
Aphids
7 per plant

Near Harvest
Leafminers
5% of leaves infested

Recommended Products

Actara® (25WDG) at 1.5-3 oz. per acre. Aphids only.

Admire PRO® (4.6F) at the following rates:
   Soil applications: 4.4-10.5 fl. oz. per acre. 21-day PHI.
   Foliar applications: 1.3 fl. oz. per acre. 7-day PHI.
   Aphids only. Do not exceed 10.5 fl. oz. per acre per season.

Agri-Mek® (0.15EC) at 8-16 fl. oz. per acre. Leafminers and mites only. Do not exceed 2 applications or 48 fl. oz. per acre per season. Use with NIS adjuvant. 7-day PHI. RUP.

Ambush® (25W) at 6.4-12.8 oz. per acre. Leafminers only. Spinach: Do not exceed 1 lb. a.i. per acre per season. All others: Do not exceed 8 lbs. per acre per season. 1-day PHI. RUP.

Assail® (30SG) at 2-4 oz. per acre. Aphids only. Do not exceed 20 oz. per acre per season. 7-day PHI.

Belay® (2.13SC) at 3.4 fl. oz per acre. Aphids only. 7-day PHI.

Beleaf® (50SG) at 1.2-2.8 oz per acre. Aphids only. 0-day PHI for lettuce, spinach.

Dimethoate® (4E) at 0.5 pt. per acre. Not for parsley, spinach, celery or head lettuce. 14-day PHI for endive, swiss chard, and leaf lettuce.

Entrust® (2SC) at 6-10 fl. oz. per acre. Leafminers only. Do not exceed 29 fl. oz. per acre per season. Observe resistance management restrictions. 1-day PHI.

Fulfill® (50WDG) at 2.75 oz. per acre. Aphids only. Do not exceed 5.5 oz. per acre per season. 7-day PHI.

Malathion® (5EC) at 1-3 pts. per acre depending on crop and pest. Aphids and mites only. 14-day PHI for leaf and head lettuce and Swiss chard. 7-day PHI for endive and spinach.

Movento® (2SC) at 4-5 fl. oz. per acre. Aphids only. 3-day PHI.

M-Pede® at 1-2% by volume. Aphids only. Must contact aphids to be effective. 0-day PHI.

Neemix 4.5® at 4-7 fl. oz. per acre. Leafminers only. 0-day PHI.

Orthene® (97S) at 0.5-1 lb. per acre. Aphids on head lettuce only. Do not exceed 2 1/8 lbs. a.i. per acre per season. 21-day PHI.

Platinum® (2SC) at 5-11 fl. oz. per acre in-soil applications. Aphids only. 30-day PHI.

Permethrin® (3.2EC) at 4-8 fl. oz. per acre. Leafminers only. Spinach: Do not exceed 24 fl. oz. per acre per season. Lettuce: Do not exceed 32 fl. oz. per acre per season. 1-day PHI. RUP.

Radiant® (1SC) at 6-10 fl. oz. per acre. Leafminers only. Do not exceed 34 fl. oz. per acre per season. 1-day PHI.

Sivanto® (200SL) at 10.5-12 fl. oz. per acre. Aphids only. Do not exceed 28 fl. oz. per acre per season. 1-day PHI.

Torac® (1.29EC) at 17-21 fl. oz. per acre. Aphids only. Do not exceed 2 applications per season. 1-day PHI.

Trigard® (75WP) at 2.66 oz. per acre. Leafminers only. Do not exceed 6 applications per acre per season. 7-day PHI.

Venom® (70SG) at the following rates:
   Foliar applications: 1-3 fl. oz. per acre. 7-day PHI.
   Soil applications: 5-6 fl. oz. per acre. 21-day PHI.
   Aphids only.

This is a reduced-risk pesticide. See page 36 for details.
This is a biopesticide. See page 36 for details.
May be acceptable for use in certified organic production. Check with your certifier before use.
**Carrot Weevil**
For parsley, scout plants at the 4-leaf stage, looking for ovipunctures (egg-laying scars) on the stems. Treat if ovipunctures are found on at least 1% of plants.

**Recommended Products**
- Baythroid XL® (1EC) at 3.2 fl. oz. per acre. 0-day PHI.
- Malathion SEC® at 1.5-2.4 pts. per acre. 7-day PHI for parsley.

**Caterpillars, Loopers**
Treat when 5% of plants are infested.

**Recommended Products**
- Ambush® (25W) at 3.2-12.8 oz. per acre. Spinach: Do not exceed 4 lbs. per acre per season. All others: Do not exceed 8 lbs. per acre per season. 1-day PHI. RUP.
- Avaunt® (30WDG) at the following rates:
  - Spinach: 3.5 oz. per acre. Do not exceed 14 oz. per acre per season.
  - Other labeled crops: 2.5-6.0 oz. per acre. Do not exceed 24 oz. per acre per season.
  - 3-day PHI.
- Various *Bacillus thuringiensis* products (Agree®, Biobit®, Dipel®, Javelin®, Xentari®) are available in various formulations. Follow label instructions for rates and use. 0-day PHI.
- Baythroid XL® (1EC) at the following rates:
  - *Cabbageworm and loopers*: 1.6-2.4 fl. oz. per acre. Armyworms, corn earworm, and European corn borer: 2.4-3.2 fl. oz. per acre.
  - Do not exceed 12.8 fl. oz. per acre per season. Allow 7 days between applications. 0-day PHI. RUP.
- Brigade® (2EC) at 2.1-6.4 fl. oz. per acre, or Brigade® (WSB) at 5.3-16 oz. per acre. *Head lettuce and spinach only. Head lettuce*: Do not exceed 1 qt. of 2EC per acre per season; do not exceed 80 oz. of WSB per acre per season. 7-day PHI. *Spinach*: Do not exceed 25.6 fl. oz. of 2EC per acre per season; do not exceed 64 oz. of WSB per acre per season. 40-day PHI. RUP.
- Confirm® (2F) at 6-8 fl. oz. per acre. 7-day PHI.
- Coragen® (1.67SC) at 3.5-5 fl. oz. per acre. 1-day PHI.
- Entrust* (2SC) at 3-6 fl. oz. per acre. Do not exceed 29 oz. per acre per season. Observe resistance management restrictions. 1-day PHI.
- Exirel* (0.83SE) at 7-17.5 fl. oz. per acre. 1-day PHI.
- Intrepid* (2F) at the following rates:
  - *Early season applications*: 4-8 fl. oz. per acre.
  - *Mid- to late-season applications*: 8-10 fl. oz. per acre.
  - Do not exceed 64 fl. oz. per acre per season. 1-day PHI.
- Lannate LV® (2.4WSL) at 0.75-3 pts. per acre. Maximum application amounts and PHIs vary among vegetables. Read and follow label directions. RUP.
- Larvin* (3.2F) at 16-30 fl. oz. per acre. Do not exceed 60 fl. oz. per acre per season. 14-day PHI. RUP.
- Mustang Maxx* (0.8EC) at 2.24-4.0 fl. oz. per acre. Do not exceed 24 fl. oz. per acre per season. 1-day PHI. RUP.
- Orthene® (97S) at 1 lb. per acre. *Head lettuce only*. Do not exceed 2.2 lbs. per acre per season. 21-day PHI.
- Permethrin* (3.2EC) at 2-8 fl. oz. per acre. *Spinach*: Do not exceed 24 fl. oz. per acre per season. *Lettuce*: Do not exceed 32 fl. oz. per acre per season. 1-day PHI. RUP.
- This is a reduced-risk pesticide. See page 36 for details.
- This is a biopesticide. See page 36 for details.
- May be acceptable for use in certified organic production. Check with your certifier before use.

**Flea Beetles, Leafhoppers**

**Flea Beetle Threshold**
Seedlings: >50% plants infested and defoliation > 30%

**Recommended Products**
- Actara® (25WDG) at 1.5-3.0 oz. per acre. Do not exceed 11 oz. per acre per season. 7-day PHI.
- Admire PRO® (4.6F) at the following rates:
  - *Soil applications*: 4.4-10.5 fl. oz. per acre. 21-day PHI.
  - *Foliar applications*: 1.3 fl. oz. per acre. 7-day PHI.
  - *Leafhoppers only*. Do not exceed 10.5 fl. oz. per acre per season.
- Ambush® (25W) at 6.4-12.8 oz. per acre. *Leafhoppers only. Spinach*: Do not exceed 4 lbs. per acre per season. All others: Do not exceed 8 lbs. per acre per season. 1-day PHI. RUP.
- Mustang Maxx® (0.8EC) at 2.24-4.0 fl. oz. per acre. Do not exceed 24 fl. oz. per acre per season. 1-day PHI. RUP.
- Orthene® (97S) at 1 lb. per acre. *Head lettuce only*. Do not exceed 2.2 lbs. per acre per season. 21-day PHI.
- Permethrin® (3.2EC) at 2-8 fl. oz. per acre. *Spinach*: Do not exceed 24 fl. oz. per acre per season. *Lettuce*: Do not exceed 32 fl. oz. per acre per season. 1-day PHI. RUP.
- This is a reduced-risk pesticide. See page 36 for details.
- This is a biopesticide. See page 36 for details.
- May be acceptable for use in certified organic production. Check with your certifier before use.
Baythroid XL® (1EC) at the following rates:

Flea beetles: 2.4-3.2 fl. oz. per acre.

Potato leafhoppers: 0.8-1.6 fl. oz. per acre.

Do not exceed 12.8 fl. oz. per acre per season. Allow 7 days between applications. 0-day PHI. RUP.

Belay® (2.13SC) at 3-4 fl. oz. per acre. 7-day PHI.

Brigade® (2EC) at 2.1-6.4 fl. oz. per acre, or Brigade® (WSB) at 5.3-16 oz. per acre. Head lettuce and spinach only. 7-day PHI for head lettuce. 40-day PHI for spinach. RUP.

Dimethoate® (4E) at 0.5 pt. per acre. Leafhoppers only. Not for parsley, spinach, celery, or head lettuce. 14-day PHI for endive, swiss chard, and leaf lettuce.

Mustang Maxx® (0.8EC) at 2.24-4.0 fl. oz. per acre. Do not exceed 24 fl. oz. per acre per season. 5-day PHI. RUP.

Neemix 4.5® at 7-16 fl. oz. per acre. Leafhopper nymphs only. 0-day PHI.

Platinum® (2SC) at 5-11 fl. oz. per acre. 30-day PHI.

Permethrin® (3.2EC) at 2-8 fl. oz. per acre. Leafhoppers only. Spinach: Do not exceed 24 fl. oz. per acre per season. Lettuce: Do not exceed 32 fl. oz. per acre per season. 1-day PHI. RUP.

Sevin XLR PLUS® (4F) at 0.5-2 qts. per acre. Do not exceed 6 qts. per acre per season. 14-day PHI.

Sivanto® (200SL) at 7-10.5 fl. oz. per acre. Leafhoppers only. Do not exceed 28 fl. oz. per acre per season. 1-day PHI.

Torac® (1.29EC) at 14-21 fl. oz. per acre. Do not exceed 2 applications per season. 1-day PHI.

Venom® (70SG) at the following rates:

Foliar applications: 1-3 fl. oz. per acre. 7-day PHI.

Soil applications: 5-6 fl. oz. per acre. 21-day PHI. Leafhoppers only.

Warrior II® (2.08CS) at 1.28-1.92 fl. oz. per acre. Lettuce only. Do not exceed 19.2 fl. oz. per acre per season. 1-day PHI. RUP.

These parsley transplants will have an advantage over plants that are direct seeded.

**Slugs**

Prevent infestation by scattering bait products to the soil surface around the perimeter of the planting. Make a rescue treatment by scattering the bait products on the soil as a band between rows.

**Recommended Products**

Deadline M-Ps® (4B) at 25 lbs. per acre. 0-day PHI.

Sluggo® (1B) at 20-44 lbs. per acre, or at 0.5-1 lb. per square ft. 0-day PHI.

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This is a reduced-risk pesticide. See page 36 for details.

This is a biopesticide. See page 36 for details.