

# Parsley

## Recommended Varieties<sup>1</sup>

Type	Variety <sup>1</sup>	Type	Variety <sup>1</sup>
Curly Leaf	Banquet (Overwintering)	Flat Leaf	Gigante D'Italia (Giant of Italy)
	Darki		Italian Plain Leaf (Dark Green)
	Einfache Schnitt (Overwintering)		Peione
	Forest Green (Semi-curled)		Pinocchio
	Moss Curled II		Plain (Overwintering)
	Wega		

<sup>1</sup>Listed alphabetically within type; all varieties are open-pollinated. Additional varieties may be identified by networking with other farmers and consulting seed company representatives. Before adopting any new variety of technique across your entire operation, test it on a small scale first. This allows you to evaluate its performance under the specific conditions of your farm and reduces the financial risk if it doesn't work as expected.

## Recommended Nutrients Based on Soil Tests

In addition to using the table below, check the suggestions on rate, timing, and placement of nutrients in your soil test report, and Chapter B Soil and Nutrient Management in this manual. Your state's soil test report recommendations and/or your farm's nutrient management plan supersede the recommendations found below.

Parsley		Soil Phosphorus Level				Soil Potassium Level				Nutrient Timing and Method
		Low	Med	High (Opt)	Very High	Low	Med	High (Opt)	Very High	
	N (lb/A)	P <sub>2</sub> O <sub>5</sub> (lb/A)				K <sub>2</sub> O (lb/A)				
	150-175	200	150	100	0	200	150	100	0	Total nutrient recommended
	50-75	200	150	100	0	200	150	100	0	Broadcast and disk-in
	25-50	0	0	0	0	0	0	0	0	Sidedress after first cutting
	25-50	0	0	0	0	0	0	0	0	Sidedress after each additional cutting

## Seeding and Spacing

Sow seed 1/3-inch-deep in a well-prepared seedbed as early as the ground can be worked in late February/early March through mid-May for late spring/summer harvest. Later plantings can be sown beginning in mid-July for fall harvest and through mid-August for overwintered production. Use 12-18 inch spacing between rows. Drill parsley seeds at a rate of 20-40 lb/A, with plants spaced 1-2 inches apart in each row. Parsley seeds are known for being slow to germinate, often taking anywhere from 14 to 28 to germinate under ideal conditions. If seeds are more than 1 year old, test the germination by sandwiching 10-20 seeds between moist paper towels placed in a resealable plastic bag. Wait a week or two and record the number of germinated seeds. The percentage germination is calculated by dividing the number of germinated seeds by the total number of seeds, then multiply by 100 (germination % = # germinated seed ÷ total # of seed x 100). Once you know the percentage germination, increase the sowing rate to compensate for reduced germination.

Overwintered and the earliest spring and later fall parsley plantings benefit from using floating row covers and/or low or high tunnels for protection from freezing temperatures. Keep in mind that floating row covers can create conditions favorable for bacterial leaf spot infections to start and spread. Remove row covers on warm or windy days to allow excess moisture to evaporate to help reduce the incidence of bacterial leaf diseases.

## Harvest and Post-Harvest Considerations

Harvest parsley by cutting a few leaves at a time from each plant or cut or dig entire plants with roots attached and bunched for sale. Plants cut above the crown will regrow for a second cutting. Parsley leaves are commonly grown for fresh markets, but also for dried herb markets where the characteristic flavor and green color can be retained if the leaves are dehydrated. Store fresh parsley at 32°F (0°C) and 95-100% relative humidity. Parsley can keep up to 2-2.5 months at 32°F, but high humidity is essential to prevent desiccation. Do not store parsley with other crops that produce ethylene, as it is very sensitive to ethylene. Packaging in perforated polyethylene bags and using top ice are beneficial for longer storage periods. A controlled atmosphere of approximately 10% oxygen and 11% carbon dioxide at moderate temperatures (41-50°F/5-10°C) can help retain green color and salability.

## Weed Control

### THE LABEL IS THE LAW-see the Pesticide Use Disclaimer on the first page of Chapter F. Recommended Herbicides

1. Identify the weeds in each field and select recommended herbicides. More information is available in the "Herbicide Effectiveness on Common Weeds in Vegetables" (Table E-3) in Chapter E Pest Management.
2. Minimize herbicide resistance development. Identify the herbicide mode of action group number and follow recommended good management practices; **bolded group numbers in tables below are herbicides at higher risk for selecting resistant weed populations.** Include non-chemical weed control whenever possible.

1. Soil-Applied (Preplant Incorporated or Preemergence)						
Group	Product Name (* = Restricted Use)	Product Rate	Active Ingredient	Active Ingredient Rate	PHI (d)	REI (h)
5	Caparol 4L	1 pt/A	<b>prometryn</b>	0.5 lb/A	30	12
-Apply after seeding, but before crop emergence. Follow with overhead irrigation if rainfall does not occur. Primarily controls annual broadleaf weeds. Annual grasses may only be suppressed. Additional postemergence treatments may be needed for full-season control. <b>-Do not</b> use on sand or loamy sand soils, or crop injury may occur. <b>-Do not</b> tank mix Caparol with any other pesticide. <b>-Do not</b> apply more than 1 pt/A in a single application and maximum Caparol 4L application per season is 3 pt/A.						
5	Lorox 50DF	1 to 3 lb/A	<b>linuron</b>	0.5 to 1.5 lb/A	30	24/96
-Apply immediately after seeding. Follow with irrigation if rainfall does not occur. Primarily controls broadleaf weeds. Annual grasses may only be suppressed. <b>-Do not</b> apply more than 1.5 lb/A linuron per season. <b>Do not</b> apply to parsley through any type of irrigation system. -The restricted-entry interval is extended from 24 to 96 h (4 days) after hand-set irrigation activity.						
8	Prefar 4E	5 to 6 qt/A	<b>bensulide</b>	5 to 6 lb/A	--	12
-Labeled for preplant incorporated or preemergence applications; <b>do not</b> incorporate more than 2 inches deep (1 inch is optimum). -Use on mineral soils only. If applied preemergence, irrigate within 36 h of application with ½ inch of water; if not incorporated with irrigation or rainfall within 36 h, weed control maybe reduced. -Provides control/suppression of some annual grass weeds and some broadleaves including pigweeds, purslane, and lambsquarters. <b>-Do not</b> apply more than 6 lb ai/A per season.						

2. Postemergence						
Group	Product Name (* = Restricted Use)	Product Rate	Active Ingredient	Active Ingredient Rate	PHI (d)	REI (h)
1	Shadow 3EC	4 to 5.33 fl oz/A	<b>clethodim</b>	0.07 to 0.125 lb/A	14	24
	Select 2 EC	6 to 8 fl oz/A				
	Select Max 0.97EC	9 to 16 fl oz/A				
	Poast 1.5EC	1 to 1.5 pt/A	<b>sethoxydim</b>	0.2 to 0.28 lb/A	15	12
<b>-Select 2EC:</b> use crop oil concentrate (COC) at 1% v/v (1 gal/100 gal of spray solution). <b>Select Max 0.97EC:</b> use nonionic surfactant (NIS) at 0.25% v/v (1 qt/100 gal of spray solution). <b>Shadow 3EC:</b> use crop oil concentrate (COC) at 1% v/v (1 gal/100 gal of spray solution) for large or stressed grasses; use nonionic surfactant (NIS) at 0.25% v/v (1 qt/100 gal of spray solution) when crop safety is a concern. <b>Poast 1.5EC:</b> use COC at 1.0% v/v. <b>-General comments:</b> -The use of COC may increase the risk of crop injury when hot or humid conditions prevail. To reduce the risk of crop injury, switch to NIS when grasses are small and soil moisture is adequate. -Use lower labeled rates for annual grass control and higher labeled rates for perennial grass control. For best results, treat annual grasses when they are actively growing and before tillers are present. -Yellow nutsedge, wild onion, wild garlic, and broadleaf weeds will <b>not</b> be controlled with these herbicides. -These herbicides control many annual and certain perennial grasses. Clethodim is best on annual bluegrass; while Poast is preferred for goosegrass control. -Repeated applications may be necessary to control certain perennial grasses. If repeat applications are necessary, allow 14 days between applications. -Rainfastness is 1 h. <b>-Do not</b> tank mix with or apply within 2 to 3 days of any other pesticide, unless labeled, as this may increase the risk of crop injury or reduce the control of grasses. <b>Do not</b> apply more than 8 fl oz/A of Select 2EC in a single application and <b>do not</b> exceed 2 pt/A for the season; <b>do not</b> apply more than 16 fl oz/A of Select Max in a single application and <b>do not</b> exceed 4 pt/A for the season. <b>-Do not</b> apply more than 5.33 fl oz/A of Shadow 3EC in a single application and <b>do not</b> exceed 21.33 fl oz/A for the season. <b>-Do not</b> apply more than 1.5 pt/A Poast in a single application and <b>do not</b> exceed 3 pt/A for the season.						
5	Caparol 4L	1 pt/A	<b>prometryn</b>	0.5 lb/A	30	12
-Apply after the crop has developed 3 true leaves. Primarily controls seedling annual broadleaf weeds less than 2 inches tall. Annual grasses may only be suppressed. An additional treatment can be applied to regrowth after the first harvest. <b>-Do not</b> use on sand or loamy sand soils, or crop injury may occur. <b>Do not</b> apply if parsley is under stress. <b>-Do not</b> tank mix Caparol with any other pesticide. <b>Do not</b> use spray additives such as nonionic surfactant or oil concentrate. <b>-Do not</b> apply more than 1 pt/A in a single application and maximum Caparol 4L application per season is 3 pt/A.						

3. Postharvest						
Group	Product Name (*=Restricted Use)	Product Rate	Active Ingredient	Active Ingredient Rate	PHI (d)	REI (h)
22	Gramoxone SL 3.0*	1.5 to 2 pt/A	paraquat	0.56 to 0.75 lb/A	--	24
<p><b>-Supplemental Label in DE for postharvest application to desiccate the crop.</b>            -Apply after the last harvest for bareground or plasticulture. Always include an adjuvant.            -Spray coverage is essential for optimum effectiveness. See the label for additional information and warnings.            -Rainfastness 30 min.            -A maximum of 2 applications for crop desiccation are allowed.  <b>-Restricted-use pesticide.</b> Only certified applicators, who successfully complete the paraquat-specific training, can mix, load, or apply paraquat. Application of paraquat “under the direct supervision” of a certified applicator is no longer allowed. Required training link (<a href="https://campus.extension.org/enroll/index.php?id=2201">https://campus.extension.org/enroll/index.php?id=2201</a>); certified applicators must repeat training every three years.</p>						

4. Other Labeled Herbicides These products are labeled but limited local data are available; and/or are labeled but not recommended in our region due to potential crop injury concerns.		
Group	Product Name (*=Restricted Use)	Active Ingredient
14	Aim (hooded or directed application only)	carfentrazone
14	Vida	pyraflufen

## Insect Control

**THE LABEL IS THE LAW-see the Pesticide Use Disclaimer on the first page of Chapter F. Recommended Insecticides**

**Note:** For **premixes**, the group number (representing the mode of action) and active ingredient that contributes the most to control is generally listed first. In some cases, only one ingredient in a premix provides control.

### Aphids

Apply one of the following formulations:						
Group	Product Name (*=Restricted Use)	Product Rate	Active Ingredient(s)	PHI (d)	REI (h)	Bee TR
1B	Malathion 57 EC	1.0 to 2.0 pt/A	malathion	7	24	H
4A	Neonicotinoid insecticides registered for use on Parsley: see table at the end of Insect Control.					
4D	Sivanto Prime	21.0 to 28.0 fl oz/A	flupyradifurone - <b>soil</b>	21	12	M
4D	Sivanto Prime	7.0 to 14.0 fl oz/A	flupyradifurone - <b>foliar</b>	1	12	M
9B	Fulfill 50WDG	2.75 oz/A	pymetrozine	7	12	L
9B	PQZ	2.4 to 3.2 fl oz/A	pyrifluquinazon	1	12	L
9B	Versys	1.5 fl oz/A	afidopyropen	0	12	L
21A	Torac	17.0 to 21.0 fl oz/A	tolfenpyrad	1	12	H
23	Boxadon 360	2.1 to 3.4 fl oz/A	spirotetramat	3	24	L
23	Movento	4.0 to 5.0 fl oz/A	spirotetramat	3	24	L
23 + 7C	Senstar	8.0 to 10.0 fl oz/A	spirotetramat + pyriproxyfen	14	24	L
28	Exirel	13.5 to 20.5 fl oz/A	cyantraniliprole	1	12	H
28	Harvanta 50SL	10.9 to 16.4 fl oz/A	cyclaniliprole	1	4	H
28 + 6	Minecto Pro* <sup>1</sup>	10.0 fl oz/A	cyantraniliprole + abamectin	7	12	H
29	Beleaf 50SG	2.0 to 2.8 oz/A	flonicamid	0	12	L
UN	Azatin O, Aza-Direct, Ecozin, Neemix (OMRI)	Refer to individual labels for rates	azadirachtin	0	4	L

<sup>1</sup>Use of a non-sticker adjuvant is required.

### Armyworms

Apply one of the following formulations:						
Group	Product Name (*=Restricted Use)	Product Rate	Active Ingredient(s)	PHI (d)	REI (h)	Bee TR
3A <sup>1</sup>	Fastac CS*	3.2 to 3.8 fl oz/A	alpha-cypermethrin- <b>not for beet armyworm</b>	1	12	H
3A <sup>1</sup>	Mustang Maxx*	3.2 to 4.0 fl oz/A	zeta-cypermethrin - <b>not for beet armyworm</b>	1	12	H
3A <sup>1</sup>	Tombstone*	2.4 to 3.2 fl oz/A	cyfluthrin - <b>not for beet armyworm</b>	0	12	H

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### Armyworms - continued

Group	Product Name	Product Rate	Active Ingredient(s)	PHI (d)	REI (h)	Bee TR
3A <sup>1</sup> + 4A	Leverage 360*	3.0 fl oz/A	beta-cyfluthrin + imidacloprid <b>- not for beet armyworm</b>	7	12	H
5	Entrust SC (OMRI)	4.0 to 8.0 fl oz/A	spinosad	1	4	H
5	Radiant SC	5.0 to 10.0 fl oz/A	spinetoram	1	4	H
6	Proclaim 5SG*	2.4 to 4.8 oz/A	emamectin benzoate	7	12	H
11A	DiPel DF (OMRI)	0.5 to 2 lb/A	<i>Bacillus thuringiensis kurstaki</i>	0	4	N
11A	XenTari (OMRI)	0.5 to 1.5 lb/A	<i>Bacillus thuringiensis aizawai</i>	0	4	N
18	Intrepid 2F (early season) Intrepid 2F (late season)	4.0 to 8.0 fl oz/A 8.0 to 10.0 fl oz/A	methoxyfenozide	1	4	L
22A	Avaunt eVo	3.5 to 6.0 oz/A	indoxacarb - <b>beet armyworm only</b>	3	12	H
28 <sup>1</sup>	Coragen 1.67SC Coragen eVo	3.5 to 7.5 fl oz/A 1.2 to 2.5 fl oz/A	chlorantraniliprole	1	4	L
28 <sup>1</sup>	Exirel	7.0 to 13.5 fl oz/A	cyantraniliprole	1	12	H
28 <sup>1</sup>	Harvanta 50SL	10.9 to 16.4 fl oz/A	cyfluthrin	1	4	H
28 <sup>1</sup>	Verimark	5.0 to 10.0 fl oz/A	cyantraniliprole	n/a	4	H
28 <sup>1</sup> + 6	Minecto Pro* <sup>2</sup>	5.5 to 10.0 fl oz/A	cyantraniliprole + abamectin	7	12	H

<sup>1</sup>Resistance concerns with beet armyworm.

<sup>2</sup>Use of a non-sticker adjuvant is required.

[Insecticides with Suppression Only on the label: Torac]

## Carrot Weevils

Weevils can be major parsley pests and are difficult to control. They tend to be more abundant in heavier soil or soil rich in organic matter. Crop rotation at least ¼ mile, row covers, and tillage of previous crop residue are recommended cultural control practices.

Group	Product Name (* = Restricted Use)	Product Rate	Active Ingredient(s)	PHI (d)	REI (h)	Bee TR
1A	Vydate L*	2.0 to 4.0 pt/A	oxamyl	14	48	H
1B	Malathion 57 EC	1.0 to 2.0 pt/A	malathion	7	24	H
3A	Baythroid XL*	2.4 to 3.2 fl oz/A	beta-cyfluthrin	0	12	H
3A + 4A	Leverage 360*	3.0 fl oz/A	beta-cyfluthrin + imidacloprid	7	12	H
28	Exirel	13.5 to 20.5 fl oz/A	cyantraniliprole	1	12	H
28 + 6	Minecto Pro* <sup>1</sup>	5.5 to 10.0 fl oz/A	cyantraniliprole + abamectin	7	12	H

<sup>1</sup>Use of a non-sticker adjuvant is required.

## Flea Beetles, Leafhoppers

Apply one of the following formulations:						
Group	Product Name (* = Restricted Use)	Product Rate	Active Ingredient(s)	PHI (d)	REI (h)	Bee TR
1A	Sevin XLR Plus	0.5 to 1 qt/A	carbaryl	14	12	H
3A	Baythroid XL*	2.4 to 3.2 fl oz/A	beta-cyfluthrin	0	12	H
3A	Mustang Maxx*	2.24 to 4.0 fl oz/A	zeta-cypermethrin	1	12	H
3A	Tombstone*	2.4 to 3.2 fl oz/A	cyfluthrin	0	12	H
4A	Neonicotinoid insecticides registered for use on Parsley: see table at the end of Insect Control.					
21A	Torac	14.0 to 21.0 fl oz/A	tolfenpyrad	1	12	H
28	Harvanta 50SL	10.9 to 16.4 fl oz/A	cyfluthrin	1	4	H
28 + 6	Minecto Pro* <sup>1</sup>	5.5 to 10.0 fl oz/A	cyantraniliprole + abamectin	7	12	H

<sup>1</sup>Use of a non-sticker adjuvant is required.

## Tarnished Plant Bugs

Apply one of the following formulations:						
Group	Product Name (* = Restricted Use)	Product Rate	Active Ingredient(s)	PHI (d)	REI (h)	Bee TR
1A	Sevin XLR Plus	1 to 2 qt/A	carbaryl	14	12	H
3A	Baythroid XL*	2.4 to 3.2 fl oz/A	beta-cyfluthrin	0	12	H
3A	Mustang Maxx*	3.2 to 4.0 fl oz/A	zeta-cypermethrin	1	12	H
3A	Tombstone*	2.4 to 3.2 fl oz/A	cyfluthrin	0	12	H
29	Beleaf 50SG	2.0 to 2.8 oz/A	fonicamid	0	12	L

<b>Group 4A Neonicotinoid Insecticides Registered for Use on Parsley</b>					
<b>Apply one of the following formulations (check if the product label lists the insect you intend to spray; the label is the law):</b>					
<b>Product Name (*Restricted Use)</b>	<b>Product Rate</b>	<b>Active Ingredient(s)</b>	<b>PHI (d)</b>	<b>REI (h)</b>	<b>Bee TR</b>
Actara 25WDG	1.5 to 5.5 oz/A	thiamethoxam	7	12	H
Admire Pro	4.4 to 10.5 fl oz/A	imidacloprid - <b>soil</b>	21	12	H
Admire Pro	1.2 fl oz/A	imidacloprid - <b>foliar</b>	7	12	H
Assail 30 SG	2.0 to 4.0 oz/A	acetamiprid	7	12	M
Assail 30 SC	1.7 to 3.4 fl oz/A	acetamiprid	7	12	M
Belay 2.13SC	9.0 to 12.0 fl oz/A	clothianidin - <b>soil</b>	21	12	H
Belay 2.13SC	3.0 to 4.0 fl oz/A	clothianidin - <b>foliar</b>	7	12	H
Platinum 75SG	1.6 to 3.67 oz/A	thiamethoxam	30	12	H
Scorpion 35SL	9 to 10.5 fl oz/A	dinotefuran - <b>soil</b>	21	12	H
Scorpion 35SL	2 to 5.2 fl oz/A	dinotefuran - <b>foliar</b>	7	12	H
Venom 70SG	5 to 7.5 oz/A	dinotefuran - <b>soil</b>	21	12	H
Venom 70SG	1.0 to 3.0 oz/A	dinotefuran - <b>foliar</b>	1	12	H
<b>Combo products containing a neonicotinoid</b>					
Leverage 360*	3.0 fl oz/A	imidacloprid + beta-cyfluthrin (Group 3A)	7	12	H
Voliam Flexi	4.0-7.0 oz/A	thiamethoxam + chlorantraniliprole (Group 28)	7	12	H

## Disease Control

**THE LABEL IS THE LAW-see the Pesticide Use Disclaimer on the first page of Chapter F. Recommended Fungicides**

### Nematodes

Nematode control is essential for satisfactory parsley production, see sections E 1.5. Soil Fumigation and E 1.6. Nematode Control. Before planting, soil should be fumigated with metam-sodium (Vapam HL) according to directions in section E 1.5.

### Seed Treatment

<b>Code</b>	<b>Product Name (*Restricted Use)</b>	<b>Product Rate</b>	<b>Active Ingredient(s)</b>	<b>PHI (d)</b>	<b>REI (h)</b>	<b>Bee TR</b>
<b>For Pythium and Phytophthora Control:</b>						
4	Apron XL <sup>1</sup>	0.085 to 0.64 fl oz/100 lb seed	mefenoxam	n/a	n/a	N
<b>For Control of Other Root Rots:</b>						
12	Maxim 4FS <sup>1</sup>	0.08 to 0.16 fl oz/100 lb seed	fludioxonil	n/a	n/a	L

<sup>1</sup>Apron XL and Maxim 4FS can be combined.

### Damping-off caused *Pythium* and *Rhizoctonia*

<b>Code</b>	<b>Product Name (*Restricted Use)</b>	<b>Product Rate</b>	<b>Active Ingredient(s)</b>	<b>PHI (d)</b>	<b>REI (h)</b>	<b>Bee TR</b>
<b>For Pythium root rot control, apply as banded spray:</b>						
4	Ridomil Gold 4SL	0.5 to 1.0 pt/A	mefenoxam	AP	48	N
4	MetaStar 2E AG	2.0 to 4.0 pt/A	metalaxyl	AP	48	N
49 + 4	Orondis Gold	13.9 to 27.8 fl oz/A	oxathiapiprolin + mefenoxam	AP	48	--
<b>For Rhizoctonia root rot control, apply as in-furrow application:</b>						
11	azoxystrobin 2.08F	0.40 to 0.80 fl oz/A	azoxystrobin	AP	4	N
<b>For Pythium and Rhizoctonia root rot control apply as banded spray:</b>						
11 + 4	Uniform 3.72SC	0.34 fl oz/1000 ft row	azoxystrobin + mefenoxam	AP	0	N

**Bacterial and Fungal Diseases****Bacterial Leaf Blight and Leaf Spots**

To help reduce disease pressure from bacterial and fungal diseases, rotate with non-related crops for at least 2 years. Space successive plantings in the same year as far apart as possible. Heavy winds and rain may damage leaves and predispose leaves to bacterial infections.

**Bacterial leaf blight:**

Prevention is key. Avoid working in the fields while the foliage is wet to help reduce spread. Scout fields on a regular basis for early symptoms, apply fixed copper at labeled rates with regular maintenance applications for leaf spot diseases and repeat every 7 days. Some copper-based products are OMRI listed and can be used in organic production systems for the suppression of bacterial and some fungal diseases.

**Septoria leaf spot:**

The disease causes serious problems in fields where parsley has been grown extensively. Grow parsley in fields without a history of the disease. Plant blocks as far apart as possible. **Early detection and prevention are key. Scout daily and apply fungicides preventatively** before first leaf spots appear in fields with history of the disease. Early season infections (*i.e.*, prior to first cutting) will severely reduce subsequent harvests.

Code	Product Name (* = Restricted Use)	Product Rate	Active Ingredient(s)	PHI (d)	REI (h)	Bee TR
<b>Rotate one of the following every 7 days:</b>						
3	Rhyme 2.08SC <sup>1</sup>	5.0 to 7.0 fl oz/A	flutriafol	7	12	--
3 + 11	Topguard EQ4.29SC <sup>1,2</sup>	6.0 to 8.0 fl oz/A	flutriafol + azoxystrobin	7	12	--
<b>with one of the following as long as disease is active:</b>						
7	Fontelis 1.67SC <sup>1</sup>	14.0 to 24.0 fl oz/A	penthiopyrad	3	12	L
7 + 11	Luna Sensation 4.25SC	5.0 to 7.6 fl oz/A	fluopyram + trifloxystrobin	0/20	12	--
7 + 11	Merivon Xemium	4.0 to 11.0 fl oz/A	fluxapyroxad + pyraclostrobin	1	12	N
7 + 12	Miravis Prime <sup>1</sup>	9.2 to 13.4 fl oz/A	pydiflumetofen + fludioxonil	0	12	--
<b>Rotate one of the above FRAC code 3 or 7 fungicides with a FRAC code 11 fungicide where resistance is not present:</b>						
11	azoxystrobin 2.08F <sup>1,2</sup>	6.0 to 15.5 fl oz/A	azoxystrobin	0	4	N
11	Cabrio 20EG <sup>1,2</sup>	12.0 to 16.0 oz/A	pyraclostrobin	0	12	N

(\*) See labels for specific crop use.

<sup>1</sup> Tank-mixing the above with a fixed copper may also help suppress bacterial infections.

<sup>2</sup> Poor control has been noted in areas of southern NJ where FRAC code 11 fungicides have been used extensively to control Septoria leaf spot.