

## VEGETABLE DISEASES (Commercial Production)

Jackie Lee and Travis Faske

Disease	Product	Active Ingredient	FRAC Code	Rate/Acre	Days to Harvest	Comments
<b>ASPARAGUS</b>						
Rust	Rally 40 WSP	myclobutanil	3	5 oz	See label.	Apply at first evidence of disease.
	Bravo WeatherStik	chlorothalonil	M5	2 - 4 pt	See label.	Follow label instructions.
	Sonata	<i>Bacillus pumilus</i> (bacteria)	---	2 - 4 qt	0	Can be used for organic production. See label.
Stemphylium Purple Spot	Flint 50 WG	trifloxystrobin	11	3 - 4 oz	0	
	Quadris	azoxystrobin	11	6 - 15.5 fl oz	100	
<b>BEANS (Snap and Pole)</b>						
Pythium Damping-Off	Ridomil Gold SL	mefenoxam	4	8 - 16 fl oz	2	Preplant incorporate in the top 2 inches. Also for this disease on lima and dry beans.
Pythium and Rhizoctonia Damping-Off	Trilex 2000	trifloxystrobin + metalaxyl	11 4	1 oz/cwt seed		
	Basicop WP Champ 4.6 F Tenn-Cop 5 E	fixed copper	M1	2 - 4 lb 1 1/3 - 2 1/3 pt 3 pt	1	Spray at first sign of disease; repeat on a 10 day schedule as needed.
White Mold (Sclerotinia)	Blocker 4 F	PCNB	14	4 pt	See label.	Do not apply after pod formation.
	Endura	boscalid	7	8 - 11 oz		
Gray Mold (Botrytis) and Rust	Bravo Ultrex	chlorothalonil	M5	2.7 lb	7	Apply at first sign of disease on a weekly schedule as needed.
	Equus	chlorothalonil	M5	1.37 - 2 pt		Follow label directions.
	Endura	boscalid	7	8 - 11 oz	See label.	Apply at first sign of disease.
Powdery Mildew and Rust	Microthiol Special	wettable sulfur	M2	7 lb	0	Apply at first sign of disease and repeat at 14 day intervals as needed.
	Endura 70 WG	boscalid	7	8 - 11 oz	7	7 - 10 day interval
	Headline 2.09 F	pyraclostrobin	11	6 - 9 fl oz	7	7 - 10 day interval
Gray Mold (Botrytis), Powdery Mildew and Rust	Priaxor	fluxapyroxad + pyraclostrobin	7 11	4 - 8 fl oz	7	
Root and Stem Rot ( <i>Rhizoctonia solani</i> )	Blocker 4 F	PCNB	14	2 - 3 pt	45	Apply in-furrow at planting.

**VEGETABLE DISEASES (Commercial Production) – continued**

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<b>BEANS (Dry)</b>						
Anthracnose, Downy Mildew, Rust	Bravo Ultrex Maneb 80 WP	chlorothalonil maneb	M5	2.7 lb	7	Apply at early bloom and repeat as needed at 7 - 10 day intervals.
			M3	1.5 - 2 lb	30	
Rust	tebuconazole (various trade names 3.6 F)	tebuconazole	3	4 - 6 fl oz	14	
Anthracnose, Ascochyta Blight	Quadris Opti	azoxystrobin + chlorothalonil	11 M5	1.6 - 2.4 pt		See label for important restrictions and application information.
Anthracnose, Ascochyta Blight, Powdery Mildew, Rust	Vertisan Priaxor	penthiopyrad fluxapyroxad + pyraclostrobin	7	10 - 20 fl oz	21	
			7	4 - 8 fl oz	21	
			11			
<b>BEANS (Dry) and FIELD PEAS (<i>Phaseolus</i> and <i>Vigna</i> spp.)</b>						
Anthracnose, Ascochyta Blight, Mycosphaerella Blight, Powdery Mildew, Rust	Headline	pyraclostrobin	11	5.5 - 8 fl oz	30	See label for important restrictions and application information.
	Endura	boscalid	7	8 - 11 oz	See label.	Follow label instructions. Not labeled on peas.
	Topsin M 4.5 F	thiophanate-methyl	1	10 fl oz	1	See label information.
	Quilt Xcel	azoxystrobin + propiconazole	11 3	10.5 - 14 fl oz	14	
Rust, White Mold	Proline 480 SC	prothioconazole	3	5.7 fl oz	7	
<b>BRASSICA (Leafy Greens)</b>						
White Rust ( <i>Albugo</i> ) Black Spot ( <i>Alternaria</i> )	Quadris 2.08	azoxystrobin	11	6 - 15.5 fl oz	0	Apply prior to disease and continue on a 7 - 14 day schedule. Do not make more than 2 consecutive applications of Quadris nor more than 3 total applications per acre per crop year. Do not apply more than 1.44 qts per acre per season.
Alternaria	Fontelis Quadris Top	penthiopyrad azoxystrobin + difenoconazole	7	14 - 30 fl oz	3	
			11	12 - 14 fl oz	1	
	Inspire Super	difenoconazole + cyprodinil	3	16 - 20 fl oz	7	
			9			
Downy Mildew	Revus	mandipropamid	40	8 fl oz		See label information.

**VEGETABLE DISEASES (Commercial Production) – continued**

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<b>CABBAGE, BROCCOLI, COLE CROPS</b>						
Alternaria Leaf Spot	Endura 70 WP	boscalid	7	6 - 9 oz	0	7 - 14 day schedule.
	Maneb 80 WP	maneb	M3	1.5 - 2 lb	7	7 - 14 day schedule.
	Ridomil Gold	mefenoxam +	4	1.5 pt	7	7 - 14 day schedule.
	Bravo SC	chlorothalonil	M5			
	Cabrio 20 EC	pyraclostrobin	11	12 - 16 oz	0	7 - 14 day schedule.
	Bravo Weatherstik	chlorothalonil	M5	1.5 - 3 pt	7	7 - 14 day schedule.
	Quadris 2.08	azoxystrobin	11	6 - 15 fl oz	0	7 - 14 day schedule.
	Switch 62.5 WG	cyprodinil + fludioxonil	9 12	11 - 14 oz	7	7 - 14 day schedule.
Downy Mildew	Ridomil Gold	mefenoxam +	4	1.5 pt	7	7 - 10 day interval until disease is under control. Alternate fungicides with different modes of action.
	Bravo SC	chlorothalonil	M5			
	Cabrio 20 EC	pyraclostrobin	11	12 - 16 oz	0	See label.
	Quadris 2.08	azoxystrobin	11	6 - 15 oz	0	See label.
	Aliette 80 WG	fosetyl-AI	33	2 - 5 lb	3	See label.
	Presidio 4 SC	fluopicolide	43	3 - 4 fl oz	2	See label.
	Reason 500 SC	fenamidone	11	5.5 - 8.2 fl oz	2	See label.
	Revus 2.08 SC	mandipropamid	40	8 fl oz	1	See label.
Pythium Damping-Off	Ridomil Gold SL	mefenoxam	4	0.25 - 0.5 pt	NA	Apply to soil at planting or transplanting.
Rhizoctonia Stem and Root Rot	Endura 70 WG	boscalid	7	6 - 9 oz	0	Apply at first sign of disease; may be repeated 7 - 14 days later.
<b>CANTALOUPE</b>						
Gummy Stem Blight, Powdery Mildew, Alternaria Leaf Spot	Fontelis	penthiopyrad	7	12 - 16 fl oz	1	
	Inspire Super	difenoconazole + cyprodinil	3 9	16 - 20 fl oz	7	
Gummy Stem Blight, Downy Mildew, Anthracnose, Alternaria Leaf Spot, Target Spot, Powdery Mildew	Quadris 2.08	azoxystrobin	11	11 - 15.4 fl oz	1	Apply at 7 - 14 day intervals prior to disease or at first sign. Alternate with a fungicide with different mode of action (e.g., Bravo) for downy mildew and spray on a 5 day schedule if conditions favor this disease. Cabrio rate for downy mildew control is 8 - 12 oz per acre. See label. Do not use adjuvants with Cabrio or tank mix with other pesticides or crop injury may result.
	Cabrio 20 EG	pyraclostrobin	11	12 - 16 oz	0	
	Quadris Opti	azoxystrobin + chlorothalonil	11 M5	3.2 pt		See label information.
	Quadris Top	azoxystrobin + difenoconazole	11 3	8 fl oz	1	
	Pristine	boscalid + pyraclostrobin	7 11	12.5 - 18.5 oz	See label.	See label.
<i>(continued)</i>						

**VEGETABLE DISEASES (Commercial Production) – continued**

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<b>CANTALOUPE (cont.)</b>						
Gummy Stem Blight, ( <i>cont.</i> ) Downy Mildew, Anthracnose, Alternaria Leaf Spot, Target Spot, Powdery Mildew	Bravo Ultrex	chlorothalonil	M5	1.4 - 2.7 lb		Lower rate for downy mildew.
	Bravo WeatherStik	chlorothalonil	M5	2 - 3 pt		Lower rate for downy mildew.
	Mancozeb 80 W	mancozeb	M3	2 - 3 lb	5	Various brands including Dithane, Penncozeb, Manzate, etc.
	Maneb 80 W	maneb	M3	1 - 2 lb	5	Various brands and formulations.
	Topsin M 4.5 F	thiophanate-methyl	1	10 fl oz	1	See label.
	Cuprofix Ultra 40 Disperss	copper sulfate	M1	1.25 - 2 lb	0	See label.
Gummy Stem Blight, Downy Mildew, Anthracnose, Alternaria Leaf Spot, Powdery Mildew	Ridomil Gold Bravo SC	mefenoxam + chlorothalonil	4 M5	2.5 - 3.25 pt	0	
	Ridomil Gold MZ	mefenoxam + mancozeb	4 M3	2.5 lb	5	
Alternaria Leaf Spot Cercospora Leaf Spot Downy Mildew Fruit and Stem Rot	Gavel 75 DF	mancozeb + zoxamide	M3 22	1.5 - 2 lb	5	See label for important restrictions and application information.
Downy Mildew	Ridomil Gold Bravo SC	mefenoxam + chlorothalonil	4 M5	2 lb	7	Apply at 14 day intervals and alternate with mancozeb, maneb, Quadris or Flint.
	Flint 50 WG	trifloxystrobin	11	4 oz	0	Apply in alternation with Bravo, Ridomil Gold Bravo.
	Tanos	famoxadone + cymoxanil	11 27	8 oz	3	REI = 12 hours. Must tank mix with fungicides of different mode of action (non group 11). See label.
	Previcur Flex	propamocarb hydrochloride	28	1.2 pt	2	REI = 12 hours. Must tank mix with another downy mildew fungicide. See label.
	Curzate 60 DF	cymoxanil	27	3.2 oz	3	REI = 12 hours. Must tank mix with fungicides of different mode of action (non group 11). See label.
	Acrobat 50 WP	dimethomorph	40	6.4 oz	0	Allow sprays to dry before harvest begins. REI = 12 hours. See label.
	Forum 4.18 F	dimethomorph	40	6 fl oz	0	
	Gavel 75 DF	mancozeb + zoxamide	M3 22	1.5 - 2 lb	5	Some varieties are sensitive to Gavel – see label.
	Presidio 4 SC	fluopicolide	43	3 - 4 oz	2	
Reason 500 SC	fenamidone	11	5.5 oz	14		
Revus 2.08 SC	mandipropamid	40	8 fl oz	0		
Cabrio 20 EG	pyraclostrobin	11	8 - 12 oz	0		
Pristine	boscalid + pyraclostrobin	7 11	12.5 - 18.5 oz	0		

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<b>CANTALOUPE (cont.)</b>						
*Powdery Mildew	Rally 40 WSP	myclobutanil	3	2.5 - 5 oz	0	Do not apply more than 1.5 lb Rally per acre per crop.
	Flint 50 WG	trifloxystrobin	11	1.5 - 2 oz	0	Apply at first sign of disease on 7 day schedule. Alternate with Bravo or other fungicides with different modes of action.
	Cabrio 20 EG	pyraclostrobin	11	12 - 16 oz	0	See label.
	Pristine	boscalid + pyraclostrobin	7 11	12.5 - 18.5 oz		See label. Best applied as a preventative.
	Quintec	quinoxifen	13	4 - 6 oz	3	
	Torino	cyflufenamid	U6	3.4 oz	0	Resistance to <i>Sphaerotheca</i> is known.
Pythium Damping-Off	Ridomil Gold SL	mefenoxam	4	8 - 16 fl oz		Apply to the soil at planting or transplanting.
	Uniform	azoxystrobin + mefenoxam	11 4	0.34 oz/ 1,000 row ft		In-furrow spray. Also effective for Rhizoctonia seedling blight.
<b>CORN (Sweet)</b>						
Rusts, Leaf Spot Diseases	Mancozeb 80 W	mancozeb	M3	2 - 3 lb	5	Various brands including Dithane, Penncozeb, Manzate, etc.
	Maneb 80 W	maneb	M3	1 - 2 lb	5	Various brands and formulations.
	Tilt 3.6 EC	propiconazole	3	4 fl oz	14	Begin applications at first sign of disease and continue on a 7 - 14 day schedule. Read label for restrictions.
	Propimax EC	propiconazole	3	4 fl oz	14	
	Headline	pyraclostrobin	11	6 - 12 fl oz	7	
	Quadris 2.08 SC	azoxystrobin	11	6.2 - 9 fl oz	7	
	Prosaro 421 SC	prothioconazole + tebuconazole	3 3	6.5 fl oz	2	
	Stratego YLD	trifloxystrobin + prothioconazole	11 3	4 - 5 fl oz	0	
	Stratego	propiconazole + trifloxystrobin	3 11	10 fl oz	14	
	Quilt Xcel	azoxystrobin + propiconazole	11 3	10.5 - 14 fl oz		See label.
	Evito 480 SC or Aftershock	fluoxastrobin	11	2 - 5.7 fl oz	7	
	Priaxor	fluxapyroxad + pyraclostrobin	7 11	4 - 8 fl oz	7	
	Headline AMP	pyraclostrobin + metconazole	11 3	10 - 14.4 fl oz	7	

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<b>CUCUMBERS</b>						
Angular Leaf Spot	Maneb 80 W	maneb	M3	1 - 2 lb	5	Apply at first sign of disease and alternate with fungicides for anthracnose on a 7 - 10 day schedule. Various brands available.
Anthracnose, Alternaria Leaf Spot, Gummy Stem Blight, Downy Mildew, Target Spot	Quadris Top	azoxystrobin + difenoconazole	11 3	12 - 14 fl oz	1	
Anthracnose, Alternaria Leaf Spot, Gummy Stem Blight, Downy Mildew, Target Spot, Scab	Quadris 2.08 SC	azoxystrobin	11	11 - 15.4 fl oz	1	Apply at 7 - 14 day intervals prior to disease or at first sign. Alternate with a fungicide with different mode of action (e.g., Bravo) for downy mildew and spray on a 5 day schedule if conditions favor this disease. Cabrio rate for downy mildew control is 8 - 12 oz per acre. See label. Do not use adjuvants with Cabrio or tank mix with other pesticides or crop injury may result.
	Cabrio 20 EG	pyraclostrobin	11	12 - 16 oz	0	
	Quadris Opti	azoxystrobin + chlorothalonil	11 M5	3.2 pt		See label information.
	Bravo Ultrex	chlorothalonil	M5	1.4 - 2.7 lb		Lower rate for downy mildew.
	Bravo WeatherStik	chlorothalonil	M5	2 - 3 pt		Lower rate for downy mildew.
	Equus 720 SST	chlorothalonil	M5	2 - 3 pt		See label instructions. Apply at first true leaf, then at 7 day intervals. Temperature restrictions on watermelon. See label information.
	Mancozeb 80 W	mancozeb	M3	2 - 3 lb	5	Various brands including Dithane, Penncozeb, Manzate, etc.
	Maneb 80 W	maneb	M3	1 - 2 lb	5	Various brands and formulations.
	Pristine	boscalid + pyraclostrobin	7 11	12.5 - 18.5 oz		See label.
Alternaria Leaf Spot, Anthracnose, Gummy Stem Blight, Powdery Mildew	Fontelis	penthiopyrad	7	12 - 16 fl oz	1	
	Inspire Super	difenoconazole + cyprodinil	3 9	16 - 20 fl oz	7	
Alternaria Leaf Spot Downy Mildew	Reason 500 SC	fenamidone	11	5.5 - 8.2 fl oz	14	See label information.
Downy Mildew Pythium	Previcur Flex	propamocarb hydrochloride	28	1.2 pt	2	

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<b>CUCUMBERS (cont.)</b>						
Alternaria Leaf Spot Cercospora Leaf Spot Downy Mildew Fruit and Stem Rot	Gavel 75 DF	mancozeb + zoxamide	M3 22	1.5 - 2 lb	5	See label for important restrictions and application information.
Downy Mildew	Ridomil Gold Bravo	mefenoxam + chlorothalonil	4 M5	2 lb	7	Apply at 14 day intervals and alternate with mancozeb, maneb, Quadris or Flint.
	Flint 50 WG	trifloxystrobin	11	4 oz	0	Apply in alternation with Bravo, Ridomil Gold Bravo.
	Tanos	famoxadone + cymoxanil	11 27	8 oz	3	REI = 12 hours. Must tank mix with fungicides of different mode of action (non group 11). See label.
	Previcur Flex	propamocarb hydrochloride	28	1.2 pt	2	REI = 12 hours. Must tank mix with another downy mildew fungicide. See label.
	Curzate 60 DF	cymoxanil	27	3.2 oz	3	REI = 12 hours. Must tank mix with fungicides of different mode of action (non group 11). See label.
	Forum 4.18 F	dimethomorph	40	6 fl oz	0	
	Gavel 75 DF	mancozeb + zoxamide	M3 22	1.5 - 2 lb	5	
	Presidio 4 SC	fluopicolide	43	3 - 4 oz	2	
	Reason 500 SC	fenamidone	11	5.5 oz	14	
	Revus 2.08 SC	mandipropamid	40	8 fl oz	0	
*Powdery Mildew	Flint 50 WG	trifloxystrobin	11	1.5 - 2 oz	0	Apply at first sign of disease on 7 day schedule. Alternate with Bravo or other fungicides with different modes of action. Quadris has the same mode of action.
	Bravo Ultrex	chlorothalonil	M5	1.4 - 2.7 lb		
	Bravo WeatherStik	chlorothalonil	M5	2 - 3 pt		
	Quadris 2.08 SC	azoxystrobin	11	11 - 15.4 fl oz	1	
	Microthiol Disperss	wettable sulfur	M2	2 lb	0	Apply at first sign of disease and repeat at 14 day intervals as needed. Do not apply when temperature is above 90 degrees F. See label information for application.
	Pristine	boscalid + pyraclostrobin	7 11	12.5 - 18.5 oz		
	Rally 40 WSP	myclobutanil	3	2.5 - 5 oz	0	Do not apply more than 1.5 lb Rally per acre per crop.
	Procure 50 WP	triflumizole	3	4 - 8 oz	0	
	Quadris Opti 5.5 SC	azoxystrobin + chlorothalonil	11 M5	3.2 pt	1	
	Quintec	quinoxifen	13	4 - 6 oz	3	
	Torino	cyflufenamid	U6	3.4 oz	0	Resistance to <i>Sphaerotheca</i> is known.
Pythium Damping-Off	Ridomil Gold SL	mefenoxam	4	8 - 16 fl oz		Apply to the soil at planting or transplanting.
	Uniform	azoxystrobin + mefenoxam	11 4	0.34 oz/1,000 row ft		In-furrow spray also effective for Rhizoctonia seedling blight.

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<b>EGGPLANT</b>						
Anthracnose, Cercospora, Gray Leaf Spot, Powdery Mildew	Quadris Top	azoxystrobin + difenoconazole	11 3	8 - 14 fl oz	1	
Anthracnose Powdery Mildew	Quadris 2.08 SC	azoxystrobin	11	6.2 - 15.4 fl oz	0	Apply prior to disease and on a 7 - 14 day schedule as needed. Do not make more than 2 consecutive applications and do not make more than 4 applications per crop year. Do not apply more than 1.92 qts per acre per season. See Cabrio label.
	Cabrio 20 EG	pyraclostrobin	11	8 - 12 oz	0	
	Reason 500 SC Priaxor	fenamidone fluxapyroxad + pyraclostrobin	11 7 11	5.5 oz 4 - 8 fl oz	14 7	
Alternaria, Powdery Mildew, Target Spot	Fontelis	penthiopyrad	7	14 - 24 fl oz	0	
Alternaria, Target Spot	Evito 480 SC or Aftershock	fluoxastrobin	11	2 - 5.7 fl oz	3	
<b>OKRA</b>						
Anthracnose Downy Mildew	Quadris 2.08 SC	azoxystrobin	11	6 - 15.5 fl oz	0	Apply prior to disease and on a 7 - 14 day schedule as needed. Do not make more than 2 consecutive applications and do not make more than 4 applications per crop year. Do not apply more than 1.92 qts per acre per season.
	Reason 500 SC	fenamidone	11	5.5 oz		
Seedling Disease	Quadris 2.08 SC	azoxystrobin	11	0.4 - 0.8 fl oz/ 1,000 row ft	N/A	In-furrow at planting or 7 inch band over the row shortly after emergence.
<b>ONION, GARLIC, LEEK, SHALLOT</b>						
Alternaria Blotch Powdery Mildew Downy Mildew	Cabrio 20 EG	pyraclostrobin	11	8 - 12 oz	7	Follow label directions closely.
	Pristine	boscalid + pyraclostrobin	7 11	12.5 - 18.5 oz	See label.	Follow label information for crops and diseases.
	Scala SC	pyrimethanil	9	9 - 18 oz		Use lower rate only in a tank mix with a broad-spectrum fungicide.
Downy Mildew	Revus	mandipropamid	40	8 fl oz		See label information.
Purple Blotch, Stemphylium, Botrytis	Inspire Super	difenoconazole + cyprodinil	3 9	16 - 20 fl oz	7	
	Quadris Top	azoxystrobin + difenoconazole	11 3	12 - 14 fl oz	3	
	Fontelis	penthiopyrad	7	14 - 24 fl oz	3	



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<b>PEAS (Southern and English)</b>						
Pythium Damping-Off	Ridomil Gold SL	mefenoxam	4	8 - 16 fl oz	2	Preplant incorporate in the top 2 inches.
Downy Mildew Cercospora Leaf Spot Anthracnose, Rust	Bravo WeatherStik	chlorothalonil	M5	1 3/8 - 2 pt	14	Apply at first sign of disease on a 7 - 10 day schedule as needed.
	Priaxor	fluxapyroxad + pyraclostrobin	7 11	4 - 8 fl oz	7	
Cercospora Leaf Spot, Anthracnose, Rust	Fontelis	penthiopyrad	7	14 - 30 fl oz	0	
Cercospora Leaf Spot, Anthracnose, Rust, Powdery Mildew	Vertisan	penthiopyrad	7	10 - 20 fl oz	21	
<b>PEPPER</b>						
Bacterial Spot	Kocide 2000 + Maneb 80 W	copper hydroxide + maneb	M1	1.5 - 2.25 lb +	0	Apply a week after transplanting and again at 5 - 10 day intervals if disease begins to develop and as needed. There are other forms of copper hydroxide and maneb available.
			M3	1 - 2 lb	7	
Downy Mildew Anthracnose	Quilt	azoxystrobin + propiconazole	11 3	6 fl oz		
Downy Mildew	Revus	mandipropamid	40	8 fl oz		See label information.
Downy Mildew, Pythium	Previcur Flex	propamocarb hydrochloride	28	1.2 pt	2	See label information.
Downy Mildew, Anthracnose Cercospora Leaf Spot	Maneb 80 W	maneb	M3	1 - 2 lb	7	Apply as needed on a 7 - 10 day schedule at first sign of disease.
Anthracnose Powdery Mildew	Quadris 2.08 SC Cabrio 20 EG	azoxystrobin pyraclostrobin	11	6 - 15.5 fl oz	0	Apply prior to disease and on a 7 - 14 day schedule as needed. Do not make more than 2 consecutive applications and do not make more than 4 applications per crop year. Do not apply more than 1.92 qts per acre per season. See Cabrio label.
			11	8 - 12 oz	0	
	Reason 500 SC Priaxor	fenamidone fluxapyroxad + pyraclostrobin	11 7 11	5.5 oz 4 - 8 fl oz	7	
Anthracnose, Cercospora, Gray Leaf Spot, Powdery Mildew	Quadris Top	azoxystrobin + difenoconazole	11 3	8 - 14 fl oz	1	
Alternaria, Powdery Mildew, Target Spot	Fontelis	penthiopyrad	7	14 - 24 fl oz	0	

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<b>PEPPER (cont.)</b>						
Alternaria, Target Spot	Evito 480 SC or Aftershock	fluoxastrobin	11	2 - 5.7 fl oz	3	
Southern Blight	Blocker 4 F	PCNB	14	4.5 - 7.5 pt/ 100 gal water	45	Use 1/2 pint transplant solution per plant. Do not exceed 7.5 lb PCNB per acre per season.
Pythium, Phytophthora Damping-Off	Ridomil Gold SL	mefenoxam	4	16 fl oz		Apply to the soil at planting or transplanting.
<b>POTATO (Seed Piece Protection)</b>						
Seed Piece and Sprout Rots	Maxim Potato Seed Protectant	fludioxonil	12	0.5 lb/100 lb seed pieces		Uniform coverage is essential.
<b>POTATO (Foliar Diseases)</b>						
Early Blight Late Blight Botrytis Rot	Quadris 2.08 SC	azoxystrobin	11	6.2 - 15.4 fl oz	1	Use higher rates on a weekly schedule under severe disease conditions; otherwise use a 14 day schedule and lower rates as needed. Alternate with fungicides of different modes of action.
	Scala	pyrimethanil	9	7 oz		Must tank mix with other effective fungicide. See label information.
	Bravo WeatherStik	chlorothalonil	M5	1 pt	0	Apply on a weekly schedule in alternation with other fungicides, as needed.
	Kocide 2000	copper hydroxide	M1	0.75 - 3 lb	0	Use higher rates if disease is severe.
	Mancozeb 80 W	mancozeb	M3	1 - 2 lb	14	Several brands and formulations.
	Manex with Zinc	maneb	M3	0.8 - 1.6 qt	14	Use higher rates if disease is severe. Other brands of maneb may be available.
Late Blight Early Blight	Gavel 75 DF	mancozeb + zoxamide	M3 22	1.5 - 2 lb	14	See label for important restrictions and application information.
	Previcur Flex	propamocarb hydrochloride	28	0.7 - 1.2 pt	14	See label.
	Headline	pyraclostrobin	11	6 - 9 fl oz	3	Use 6 - 12 fl oz for late blight. See label for other information.
	Reason 500 SC	fenamidone	11	5.5 fl oz	See label.	See label for additional information. Rates vary.
Late Blight, Early Blight, Powdery Mildew	Quadris Opti	azoxystrobin + chlorothalonil	11 M5	3.2 pt		See label information.

**VEGETABLE DISEASES (Commercial Production) – continued**

Disease	Product	Active Ingredient	FRAC Code	Rate/Acre	Days to Harvest	Comments		
<b>POTATO (Foliar Diseases) (cont.)</b>								
Powdery Mildew	Microthiol Disperss	wettable sulfur	M2	5 lb	0	Apply at first sign of disease and repeat at 14 day intervals as needed.		
Early Blight, Powdery Mildew	Vertisan	penthiopyrad	7	10 - 24 fl oz	7			
	Quadris Top	azoxystrobin + difenoconazole	11 3	8 - 14 fl oz	14			
	Luna Tranquility	fluopyram + pyrimethanil	7 9	11.2 fl oz	7			
Downy Mildew	Revus	mandipropamid	40	8 fl oz		See label information.		
Early Blight	Gem 500 SC	trifloxystrobin	11	2.9 - 3.8 fl oz	7	See label information.		
	Evito 480 SC or Aftershock	fluoxastrobin	11	2 - 3.8 fl oz	7			
	Priaxor	fluxapyroxad + pyraclostrobin	7 11	4 - 8 fl oz	7			
<b>PUMPKIN</b>								
Angular Leaf Spot	Maneb 80 W	maneb	M3	1 - 2 lb	5	Apply at first sign of disease and alternate with fungicides for anthracnose on a 7 - 10 day schedule. Various brands available.		
	Kocide 2000	copper hydroxide	M1	1 - 2.25 lb	0	Crop injury may occur at high rates.		
Anthracnose Alternaria Leaf Spot Gummy Stem Blight Downy Mildew Target Spot Scab Powdery Mildew	Quadris 2.08 SC	azoxystrobin	11	11 - 15.4 fl oz	1	Apply at 7 - 14 day intervals prior to disease or at first sign. Alternate with a fungicide with different mode of action (e.g., Bravo) for downy mildew and spray on a 5 day schedule if conditions favor this disease. Cabrio rate for downy mildew control is 8 - 12 oz per acre. See label. Do not use adjuvants with Cabrio or tank mix with other pesticides or crop injury may result.		
	Cabrio 20 EG	pyraclostrobin	11	12 - 16 oz	0			
			Bravo Ultrex	chlorothalonil	M5	1.4 - 2.7 lb		Lower rate for downy mildew.
			Bravo WeatherStik	chlorothalonil	M5	2 - 3 pt		Lower rate for downy mildew.
			Maneb 80 W	maneb	M3	1 - 2 lb	5	Various brands and formulations.
	Pristine	boscalid + pyraclostrobin	7	12.5 - 18.5 oz	See label.	Follow label. Best applied at first evidence of disease.		
			11					
Topsin M 4.5 F	thiophanate-methyl	1	10 fl oz	1				
Anthracnose, Alternaria Leaf Spot Gummy Stem Blight Downy Mildew Target Spot	Ridomil Gold	mefenoxam +	4	2.5 - 3.25 pt	0			
	Bravo SC	chlorothalonil	M5					
Alternaria Leaf Spot, Anthracnose, Gummy Stem Blight, Powdery Mildew	Fontelis	penthiopyrad	7	12 - 16 fl oz	1			
	Inspire Super	difenoconazole + cyprodinil	3 9	16 - 20 fl oz	7			

**VEGETABLE DISEASES (Commercial Production) – continued**

Disease	Product	Active Ingredient	FRAC Code	Rate/Acre	Days to Harvest	Comments
<b>PUMPKIN (cont.)</b>						
Anthracnose, Alternaria Leaf Spot, Gummy Stem Blight, Downy Mildew, Target Spot, Powdery Mildew	Quadris Top	azoxystrobin + difenoconazole	11 3	12 - 14 fl oz	1	
Downy Mildew	Ridomil Gold Bravo SC	mefenoxam + chlorothalonil	4 M5	2 lb	7	Apply at 14 day intervals and alternate with mancozeb, maneb, Quadris or Flint.
	Flint 50 WG	trifloxystrobin	11	4 oz	0	Apply in alternation with Bravo, Ridomil Gold Bravo.
	Tanos	famoxadone + cymoxanil	11 27	8 oz	3	REI = 12 hours. Rotate with Bravo or mancozeb. See label.
	Previcur Flex	propamocarb	28	1.2 pt	2	REI = 12 hours. Must tank mix with another downy mildew fungicide. See label.
	Curzate 60 DF	cymoxanil	27	3.2 oz	3	REI = 12 hours. Tank mix with chlorothalonil or mancozeb. See label.
	Reason 500 SC	fenamidone	11	5.5 fl oz		Rates vary. See label.
	Ranman	cyazofamid	21	2.1 - 2.75 fl oz	See label.	Apply at 7 - 10 day interval beginning at flowering or at initial disease onset.
	Sonata	<i>Bacillus pumilus</i> (bacteria)	---	2 - 4 qt	0	Can be used for organic production. See label.
	Forum 4.18 F Gavel 75 DF	dimethomorph mancozeb + zoxamide	40 M3 22	6 fl oz 1.5 - 2 lb	0 5	Some varieties are sensitive to Gavel – see label.
	Presidio 4 SC Revus 2.08 SC	fluopicolide mandipropamid	43 40	3 - 4 oz 8 fl oz	2 0	
*Powdery Mildew	Rally 40 WSP	myclobutanil	3	2.5 - 5 oz	0	Do not apply more than 1.5 lb Rally per acre per crop.
	Flint 50 WG	trifloxystrobin	11	1.5 - 2 oz	0	Apply at first sign of disease on 7 day schedule. Alternate with Bravo or other fungicides with different modes of action. Quadris has the same mode of action.
	Quintec Torino	quinoxifen cyflufenamid	13 U6	4 - 6 oz 3.4 oz	3 0	Resistance to <i>Sphaerotheca</i> is known.
	Microthiol Special	wettable sulfur	M2	2 lb	0	Apply at first sign of disease and repeat at 14 day intervals as needed. Do not apply when temperature is above 90 degrees F.
Pythium Damping-Off	Ridomil Gold SL	mefenoxam	4	8 - 16 fl oz		Apply to the soil at planting or transplanting.
	Uniform	azoxystrobin + mefenoxam	11 4	0.34 oz/1,000 row ft		In-furrow spray. Also effective for Rhizoctonia seedling blight.

**VEGETABLE DISEASES (Commercial Production) – continued**

<b>Disease</b>	<b>Product</b>	<b>Active Ingredient</b>	<b>FRAC Code</b>	<b>Rate/Acre</b>	<b>Days to Harvest</b>	<b>Comments</b>
<b>RADISH</b>						
Alternaria Leaf Spot Cercospora Leaf Spot Powdery Mildew White Rust	Cabrio 20 EG	pyraclostrobin	11	8 - 12 oz	0	Use 8 - 16 oz for white rust control. See label for other information.
Alternaria Leaf Spot Cercospora Leaf Spot Powdery Mildew Rust	Fontelis	penthiopyrad	7	16 - 30 fl oz		
Pythium Damping-Off Phytophthora Stem Rot White Rust	Ridomil Gold SL	mefenoxam	4	8 - 16 fl oz		Apply to the soil at planting or transplanting.
<b>SPINACH</b>						
Pythium Damping-Off White Rust	Ridomil Gold SL	mefenoxam	4	8 - 16 fl oz		Apply to the soil at planting or transplanting.
Downy Mildew	Aliette 50 WDG	fosetyl-AI	33	2 - 3.75 lb	3	Apply at first sign of disease and repeat on a 7 - 21 day schedule as needed. Beware of certain tank mixes – see label.
	Ridomil Gold-Copper	mefenoxam + copper hydroxide	4 M1	2.5 lb	21	Spray at first sign of disease. Apply 21 days after Ridomil EC preplant application and on a 14 day schedule afterwards as needed. See label for precautions.
Foliar Leaf Spots White Rust	Quadris 2.08 FL	azoxystrobin	11	6.2 - 15.4 fl oz	0	Apply at first sign of disease and then on a 7 - 14 day schedule. Follow resistance management guidelines on label.
Downy Mildew Powdery Mildew	Quadris 2.08 FL	azoxystrobin	11	12.3 - 15.4 fl oz	0	Apply preventively on a weekly basis. If possible, alternate applications with a fungicide with a different mode of action.
	Kocide 2000	copper hydroxide	M1	1.5 - 2 lb	0	Apply as needed. Use higher rate for heavier disease situations. Flecking may occur on leaves.
Downy Mildew White Rust	Reason 500 SC	fenamidone	11	5.5 - 8.2 oz		See label.
Alternaria Leaf Spot Cercospora Early Blight Late Blight Powdery Mildew Rust	Fontelis	penthiopyrad	7	14 - 24 fl oz	3	

**VEGETABLE DISEASES (Commercial Production) – continued**

Disease	Product	Active Ingredient	FRAC Code	Rate/Acre	Days to Harvest	Comments
<b>SQUASH</b>						
Angular Leaf Spot	Kocide 2000	copper hydroxide	M1	1 - 2.25 lb		Crop injury may occur at high rates.
Anthracnose Alternaria Leaf Spot Gummy Stem Blight Downy Mildew Target Spot Scab	Quadris 2.08 SC  Cabrio 20 EG   Bravo Ultrex Bravo WeatherStik Maneb 80 W Pristine	azoxystrobin  pyraclostrobin  chlorothalonil chlorothalonil maneb boscalid + pyraclostrobin	11  11  M5 M5 M3 7 11	11 - 15.4 fl oz  12 - 16 oz  1.4 - 2.7 lb 2 - 3 pt 1 - 2 lb 12.5 - 18.5 oz	1  0  5 See label.	Apply at 7 - 14 day intervals prior to disease or at first sign. Alternate with a fungicide with different mode of action (e.g., Bravo) for downy mildew and spray on a 5 day schedule if conditions favor this disease. Cabrio rate for downy mildew control is 8 - 12 oz per acre. See label. Do not use adjuvants with Cabrio or tank mix with other pesticides or crop injury may result.  Lower rate for downy mildew. Lower rate for downy mildew. Various brands and formulations. Follow label. Best if applied as a preventative.
Anthracnose, Alternaria Leaf Spot, Gummy Stem Blight, Downy Mildew, Target Spot	Quadris Top	azoxystrobin + difenoconazole	11 3	12 - 14 fl oz	1	
Alternaria Leaf Spot, Anthracnose, Gummy Stem Blight, Powdery Mildew	Fontelis Inspire Super	penthiopyrad difenoconazole + cyprodinil	7 3 9	12 - 16 fl oz 16 - 20 fl oz	1 7	
Downy Mildew Pythium	Previcur Flex	propamocarb hydrochloride	28	1.2 pt	2	
Alternaria Leaf Spot Cercospora Leaf Spot Downy Mildew Fruit and Stem Rot	Gavel 75 DF	mancozeb + zoxamide	M3 22	1.5 - 2 lb	5	See label for important restrictions and application information.
Downy Mildew	Ridomil Gold Bravo  Flint 50 WG  Tanos  Reason 500 SC Previcur Flex  Curzate 60 DF  Cuprofix Ultra 40 Disperss	mefenoxam + chlorothalonil  trifloxystrobin  famoxadone + cymoxanil  fenamidone propamocarb  cymoxanil  copper sulfate	4 M5  11 27  11 28  27  M1	2 lb  4 oz  8 oz  5.5 - 8.2 fl oz 1.2 pt  3.2 oz  1.25 - 2 lb	7  0  3  14 2  3  0	Apply at 14 day intervals and alternate with mancozeb, maneb, Quadris or Flint.  Apply in alternation with Bravo, Ridomil Gold Bravo.  REI = 12 hours. Must tank mix with contact fungicide with different mode of action (non group 11). See label.  See label information. REI = 12 hours. Must tank mix with another downy mildew fungicide. See label.  REI = 12 hours. Must tank mix with contact fungicide with different mode of action (non group 11). See label for specific mixing information.

**VEGETABLE DISEASES (Commercial Production) – continued**

Disease	Product	Active Ingredient	FRAC Code	Rate/Acre	Days to Harvest	Comments
<b>SQUASH (cont.)</b>						
*Powdery Mildew	Flint 50 WG	trifloxystrobin	11	1.5 - 2 oz	0	Apply at first sign of disease on 7 day schedule. Alternate with Bravo or other fungicides with different modes of action. Quadris has the same mode of action.
	Folicur 3.6 F	tebuconazole	3	4 - 6 fl oz	7	
	Rally 40 WSP	myclobutanil	3	2.5 - 5 oz	0	Do not apply more than 1.5 lb Rally per acre per crop.
	Bravo Ultrex Bravo WeatherStik	chlorothalonil chlorothalonil	M5 M5	1.4 - 2.7 lb 2 - 3 pt		
	Quadris 2.08 SC	azoxystrobin	11	11 - 15.4 fl oz	1	
	Microthiol Disperss	wettable sulfur	M2	2 lb	0	Apply at first sign of disease and repeat at 14 day intervals as needed. Do not apply when temperature is above 90 degrees F.
	Pristine	boscalid + pyraclostrobin	7 11	12.5 - 18.5 oz	See label.	Best if applied at first evidence of disease. Follow label information.
	Quintec	quinoxifen	13	4 - 6 oz	3	
	Torino	cyflufenamid	U6	3.4 oz	0	Resistance to <i>Sphaerotheca</i> is known.
Pythium Damping-Off	Ridomil Gold SL	mefenoxam	4	8 - 16 fl oz		Apply to the soil at planting or transplanting.
	Uniform	azoxystrobin + mefenoxam	11 4	0.34 oz/ 1,000 row ft		In-furrow spray. Also effective for Rhizoctonia seedling blight.
<b>SWEET POTATO</b>						
Downy Mildew Leaf Spot Powdery Mildew	Headline Quadris 2.08 SC	pyraclostrobin azoxystrobin	11 11	6 - 12 fl oz 6 - 15.5 fl oz	3	See label for restrictions and application information.
Scurf Foot Rot Black Rot	Mertect 340-F Botran 75 W	thiabendazole dichloran	1 14	107 oz/100 gal 13.3 lb/100 gal		Dip seedling roots into solution for 2 minutes and then plant. Same as above.
Post-Harvest Rhizopus	Botran 75 W	dichloran	14	1 lb/100 gal		Dip sweet potato in solution for 10 seconds and do not rinse before shipment or storage. If dipping is not feasible, the solution can be sprayed on. Good coverage is crucial.
Pythium Damping-Off	Ridomil Gold SL	mefenoxam	4	8 - 16 fl oz		Apply to the soil at planting or transplanting.
Early Blight Botrytis Leaf Spot	Scala	pyrimethanil	9	7 oz	7	See label information.

**VEGETABLE DISEASES (Commercial Production) – continued**

Disease	Product	Active Ingredient	FRAC Code	Rate/Acre	Days to Harvest	Comments	
<b>SWEET POTATO (cont.)</b>							
Early Blight and Late Blight	Reason 500 SC	fenamidone	11	5.5 - 8.2 oz		See label information.	
Early Blight, Powdery Mildew	Vertisan	penthiopyrad	7	10 - 24 fl oz	7		
	Quadris Top	azoxystrobin + difenoconazole	11 3	8 - 14 fl oz	14		
Early Blight	Evito 480 SC or Aftershock	fluoxastrobin	11	2 - 3.8 fl oz	7		
<b>TOMATO – See tomato disease section</b>							
<b>WATERMELON</b>							
Gummy Stem Blight Downy Mildew Anthracnose Alternaria Leaf Spot Target Spot	Quadris 2.08 SC	azoxystrobin	11	11 - 15.4 fl oz	1	Apply at 7 - 14 day intervals prior to disease or at first sign. Alternate with a fungicide with different mode of action (e.g., Bravo) for downy mildew and spray on a 5 day schedule if conditions favor this disease. Cabrio rate for downy mildew control is 8 - 12 oz per acre. See label. Do not use adjuvants with Cabrio or tank mix with other pesticides or crop injury may result.	
	Cabrio 20 EG	pyraclostrobin	11	12 - 16 oz	0		
	Quadris Top	azoxystrobin + difenoconazole	11 3	12 - 14 fl oz	1		
	Bravo Ultrex	chlorothalonil	M5	1.4 - 2.7 lb			Lower rate for downy mildew.
	Bravo WeatherStik	chlorothalonil	M5	2 - 3 pt			Lower rate for downy mildew.
	Equus 720	chlorothalonil	M5	2 - 3 pt			Apply at first true leaf stage or at first evidence of disease. Some weather restrictions apply to watermelons, etc. 7 day intervals.
	Mancozeb 80 W	mancozeb	M3	2 - 3 lb	5		Various brands including Dithane, Penncozeb, Manzate, etc.
	Maneb 80 W	maneb	M3	1 - 2 lb	5		Various brands and formulations.
	Pristine	boscalid + pyraclostrobin	7 11	12.5 - 18.5 oz	See label.	Follow label information.	
Gummy Stem Blight Downy Mildew Anthracnose Alternaria Leaf Spot Powdery Mildew	Ridomil Gold	mefenoxam + chlorothalonil	4 M5	2.5 - 3.25 pt	0		
	Bravo SC						
Alternaria Leaf Spot Anthracnose	Fontelis	penthiopyrad	7	12 - 16 fl oz	1		
Gummy Stem Blight Powdery Mildew	Inspire Super	difenoconazole + cyprodinil	3 9	16 - 20 fl oz	7		



**VEGETABLE DISEASES (Commercial Production) – continued**

Disease	Product	Active Ingredient	FRAC Code	Rate/Acre	Days to Harvest	Comments
<b>WATERMELON (cont.)</b>						
Alternaria Leaf Spot Cercospora Leaf Spot Downy Mildew Fruit and Stem Rot	Gavel 75 DF	mancozeb + zoxamide	M3 22	1.5 - 2 lb	5	See label for important restrictions and application information.
Anthracnose Alternaria Leaf Spot Gummy Stem Blight	Luna Experience	fluopyram + tebuconazole	7 3	8 - 17 fl oz	7	
Anthracnose Alternaria Leaf Spot	Luna Sensation	fluopyram + trifloxystrobin	7 11	7.6 fl oz	0	
Downy Mildew	Ridomil Gold Bravo SC	mefenoxam + chlorothalonil	4 M5	2 lb	7	Apply at 14 day intervals and alternate with mancozeb, maneb, Quadris or Flint.
	Flint 50 WG	trifloxystrobin	11	4 oz	0	Apply in alternation with Bravo, Ridomil Gold Bravo.
	Tanos	famoxadone + cymoxanil	11 27	8 oz	3	REI = 12 hours. Rotate with Bravo or mancozeb. See label.
	Previcur Flex	propamocarb	28	1.2 pt	2	REI = 12 hours. Must tank mix with another downy mildew fungicide. See label.
	Curzate 60 DF	cymoxanil	27	3.2 oz	3	REI = 12 hours. Tank mix with chlorothalonil or mancozeb. See label.
	Reason 500 SC	fenamidone	11	5.5 oz	See label.	Rates may vary. Follow label.
	Forum 4.18 F	dimethomorph	40	6 fl oz	0	
	Gavel 75 DF	mancozeb + zoxamide	M3 22	1.5 - 2 lb	5	Some varieties are sensitive to Gavel – see label.
	Presidio 4 SC	fluopicolide	43	3 - 4 oz	2	
	Reason 500 SC	fenamidone	11	5.5 oz	14	
	Revus 2.08 SC	mandipropamid	40	8 fl oz	0	
*Powdery Mildew	Rally 40 WSP	myclobutanil	3	2.5 - 5 oz	0	Do not apply more than 1.5 lb Rally per acre per crop.
	Flint 50 WG	trifloxystrobin	11	1.5 - 2 oz	0	Apply at first sign of disease on 7 day schedule. Alternate with Bravo or other fungicides with different modes of action. Quadris has the same mode of action.
	Pristine	boscalid + pyraclostrobin	7 11	12.5 - 18.5 oz	See label.	Follow label. Best if applied at first evidence of disease.
(continued)	Quadris 2.08 SC	azoxystrobin	11	11 - 15.4 fl oz	1	

### VEGETABLE DISEASES (Commercial Production) – continued

Disease	Product	Active Ingredient	FRAC Code	Rate/Acre	Days to Harvest	Comments
<b>WATERMELON (cont.)</b>						
*Powdery Mildew ( <i>cont.</i> )	Luna Sensation	fluopyram + trifloxystrobin	7 11	4 - 7.6 fl oz	0	
	Luna Experience	fluopyram + tebuconazole	7 3	6 - 17 fl oz	7	
	Quintec	quinoxifen	13	4 - 6 oz	3	
	Torino	cyflufenamid	U6	3.4 oz	0	Resistance to <i>Sphaerotheca</i> is known.
Pythium Damping-Off	Ridomil Gold SL	mefenoxam	4	8 - 16 fl oz		Apply to the soil at planting or transplanting.
	Uniform	azoxystrobin + mefenoxam	11 4	0.34 oz/ 1,000 row ft		In-furrow spray. Also effective for <i>Rhizoctonia</i> seedling blight.

\***Powdery Mildew** of cucurbits is caused by two fungal genera, *Sphaerotheca* and *Erysiphe*, that can quickly (high risk) develop resistance to fungicides. Use a tank mix or premix with two modes of action (different FRAC Code numbers) and avoid sequential use of a single chemistry (same FRAC Code number) within the same season.

### VEGETABLE NEMATODES (Commercial Production)

Travis Faske

Nematode	Nematicide	Formulation	Active Ingredient	Rate/Acre	Comments
Root-Knot, Lesion, Stubby Root and Reniform	Telone II	Liquid	1,3-dichloropropene	See label.	Inject 12 inches below planting depth and seal immediately with appropriate bedding equipment. Wait 7 - 14 days before planting.
	Vydate L	Liquid	oxamyl	See label.	

**RESTRICTED USE PESTICIDES** – For sale and use only by licensed/certified applicators or persons under their direct supervision. **These are dangerous pesticides – use caution in handling and read and follow current label directions.** If nematodes are suspected to be causing problems, a diagnostic soil sample should be taken to the county agent for submission to the Cooperative Extension Service Nematode Diagnostic Laboratory. **A small fee is required.**