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**Insect Pest Management Guide For Blueberries<sup>1,2</sup>**

This table shows the pesticides that could be used to control selected pests in blueberries. The list was updated for the 2005-2006 blueberry season. It is important to keep in contact with your extension agents and to get up to date information on pesticide use and other pest control activities.

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<sup>1</sup> Adapted from Hale et al 2005.

<sup>2</sup> The information in the table is in non-metric units.

**Dormant (before bud break)**

<b>Insect</b>	<b>Insecticide</b>	<b>Dosage</b>	<b>REI</b>	<b>PHI</b>	<b>Other</b>
Cranberry tipworm Blueberry gall midge	Diazinon AG500 [diazinon]	1 pt /acre	24 h	7days	May injure pollinator if applied too close to blooming
	SpinTor 2SC [spinosad]	4-8 oz/acre	4 h	3 days	It is toxic to the pollinators until it dries.
	Malathion 57EC [malathion]	2 pt/acre	12 h	1 day	Applied when buds are in stage 1. It is toxic to pollinators
Scales	70 Second [superior oil]	2 gal/100gal water/acre 2 fl oz/gal water	12 h	12 h	Apply only when temperatures are between 40 and 85°F for the day. Do not use within 14 days of lime-sulfur.

**Pre-bloom to green tip and pink bud**

<b>Insect</b>	<b>Insecticide</b>	<b>Dosage</b>	<b>REI</b>	<b>PHI</b>	<b>Other</b>
Cranberry tipworm Blueberry gall midge	Diazinon AG500 [diazinon]	1 pt /acre	24 h	7 days	May injure pollinator if applied too close to blooming
	SpinTor 2SC [spinosad]	4-8 oz/acre	4 h	3 days	It is toxic to the pollinators until it dries out.
	Malathion 57EC [malathion]	2 pt/acre	12 h	1 day	Applied when buds are in stage 1. It is toxic to pollinators

**10% bloom to 90% bloom**

<b>Insect</b>	<b>Insecticide</b>	<b>Dosage</b>	<b>REI</b>	<b>PHI</b>	<b>Other</b>
Flower thrips	SpinTor 2SC [spinosad]	6 oz/acre	4 h	3 days	It is toxic to the pollinators until it dries. It is better to apply at night to reduce this risk. Application may be spaced 10 to 15 days depending on thrips populations

**Petal fall to one month after placcation**

<b>Insect</b>	<b>Insecticide</b>	<b>Dosage</b>	<b>REI</b>	<b>PHI</b>	<b>Other</b>
<ul style="list-style-type: none"> <li>• Cranberry fruitworm</li> <li>• Cherry fruitworm</li> <li>• Plum curculio</li> <li>• Shapnosed leafhopper</li> </ul>	Malathion 57EC [malathion]	2.8 - 3.2 pt/acre	12 h	1 day	
	Asana 0.66 EC [asfenvalerate]	4.8-9.6 fl oz/acre	12 h	14 days	
	Imidan 70WP [phosmet]	1-1.5 lb/acre	24 h	3 days	Labeled for cranberry fruitworm in AL, AR, GA, MS, SC and for plum curculio in SC and LA.
	Guthion 2L [azinphos-methyl]	2-3 pt/acre	48 h	7 days	Extremely toxic to humans, application by backpack and hand is prohibited
	Sevin 80WSP [carbaryl]	1.875-2.5 lb/acre	12 h	7 days	It is NOT effective against plum curculio.

Insect	Insecticide	Dosage	REI	PHI	Other
<ul style="list-style-type: none"> <li>• Cranberry fruitworm</li> <li>• Cherry fruitworm</li> <li>• Plum curculio</li> <li>• Shapnosed leafhopper</li> </ul>	Comfirm 2F [tebufenozide]	16 fl oz.	4 h	14 days	It is NOT effective against plum curculio. It is necessary to apply when fruitworms are in the early stages

### Pre-harvest

Insect	Insecticide	Dosage	REI	PHI	Other
Fire ants	Esteem ant bait [pyriproxifen]	1.5-2 lb /acre 2-4 tablespoons/mound	12 h	24 h	Apply when temperature is over 60°F Baits are slow acting but effective. Needs to be reapplied if flood takes place the following 7 days after application
	Malathion 57 EC [malathion]	1 pt/acre	12 h	1 day	May be applied the day before the harvest to discourage ant from foraging in the plants, it is not a controlling method
	Diazinon AG 500 [diazinon]	1pt/100 gal	24 h	7 days	Apply 1 gallon per mound covering 6 inches around the entrance
	Extinguish professional fire ant bait 0.5% [methoprene]	1-1.5 lb/acre 3-5 tablespoon/1000 sq ft 3-5 tablespoons/mound	4 h	4h	Rain with in the first 6 hours after application will reduce effectiveness Should NOT be applied with hydramethylnon

## Harvest

Insect	Insecticide	Dosage	REI	PHI	Other
Blueberry maggot	Imidan 70W [phosmet]	1.3 lb/acre	24 h	3 days	Labeled for AL, AR, GA and SC. It should be reapplied 10 to 14 days if necessary no more than 2 times per season.
	Sevin 80WSP Sevin 80S [carbaryl]	1.8-2.5 lb/acre	12 h	7 days	
	Malathion 57EC	1.5 pt./acre	12 h	1 day	
Blueberry maggot	Guthion 2L [azinphos-methyl]	2-3 pt/acre	12 h	1 day	Extremely toxic to humans, application by backpack and hand wand is prohibited
	Diazinon AG500 [diazinon]	1 pt/100gal	24 h	7 days	Reapply every 14 days if necessary no more than two times per season
Japanese beetle	Sevin 80WSP Sevin 80S [carbaryl]	1.25-2.5 lb/acre	12 h	7 days	Reapply every 7-8 days if necessary no more than 5 times per season
	Provado 1.6F Imidacloprid	6-8 fl. oz/acre	12 h	3 days	Should NOT be applied before or during the bloom period

## Post-Harvest

Insect	Insecticide	Dosage	REI	PHI	Other
Blueberry bud mite	Endosulfan 3EC [endosulfan]	2 qt/300 gal	24 h		A post harvest application and another one by the middle of the summer. Do not apply more than 4 qts per acre/year.
	JMS Stylet oil [horticultural oil]	3-6 qts/100 gal	4 h	0	
	Stoller Golden Pest Spray oil [horticultural oil]	2 gal/acre ULV 2 gal/100 gal diluted spray	4 h	0	
<ul style="list-style-type: none"> <li>• Yellownecked caterpillar</li> <li>• Leaf tiers</li> <li>• Spanworms</li> <li>• Azalea caterpillar</li> </ul>	Malathion 57 EC [malathion]	1.5 pt/acre	12 h	1 day	Caterpillar treatments are more effective when the larvae are in the first stages of development
	Dipel DF [BT]	0.5-1 lb/acre	4 h	0	
	Confirm 2F [tebufenozide]	4-8 oz	12h	14 days	
	Asana XL [esfenvalerate]	4.8-16 oz/acre	12 h	14 days	

<b>Insect</b>	<b>Insecticide</b>	<b>Dosage</b>	<b>REI</b>	<b>PHI</b>	<b>Other</b>
Flea beetles	Sevin 80S [carbaryl]	1-2 lb/acre	12 h	7 days	
	Diazinon AG500 [diazinon]	1 pt/100 gal/acre	24 h	7 days	
Sharpnosed leafhopper	Asana 0.66 EC [esfenvalerate]	4.8-9.6 fl.oz/acre	12 h	14 days	It could be used in the late season and after harvest foliage management.
	Malathion 57EC [malathion]	1.5 pt./acre	12 h	0	