

BLACKBERRY AND RASPBERRY INSECT CONTROL—COMMERCIAL

Insect	Material and Formulation	Amount to Use Per Acre	Remarks/Precautions	Days to Harvest
LATE OCTOBER/EARLY NOVEMBER OR LATE MARCH (DORMANT)				
Raspberry Crown Borer	Brigade 2 EC	6.4 fl oz	Apply Brigade or Hero after egg hatch ends from late October to early November or wait to apply in late March. Apply Brigade as a soil drench to the crown of plants in minimum of 50 gal water per acre prior to significant rainfall event. Do not exceed 12.8 fl oz (0.2 lb ai) per acre per season. Apply Hero as a soil drench to crown of plant with 200 gal water per acre.	3
	Brigade WSB	16 oz		3
	Hero	10.3 fl oz		3
DELAYED DORMANT				
Rednecked Cane Borer	Cultural control		If less than 5% of fruiting canes have galls, then prune out galled fruiting canes, bury or otherwise destroy these infested canes to kill overwintering larvae.	
PREBLOOM				
Strawberry Clipper	Sevin 4F	1-2 qt	When the first flower appears, begin randomly checking 100 clusters for clipped buds or tap flower clusters over a white paper plate to detect adult strawberry clipper weevils (1/10 inch long with snout). If more than 1% of buds are clipped or you find 1 adult weevil, apply insecticide and reapply at 10-day intervals as long as bud clipping or weevils occur.	7
	Sevin 80S	1.25-2.5 lb		7
Thrips	Assail 30SG	4.5-5.3 oz	Aza-Direct is OMRI approved for organic production.	1
	Assail 70WP	1.9-2.3 oz		1
	Malathion 5EC	3.5 pt		1
	Malathion 8F	3 pt		1
	Aza-Direct	1-4 pt		4 hours
Spider Mites	Savey 50DF	4-6 oz	Applications of Sevin and pyrethroids can cause mite flare-ups. Minimize road dust to prevent spider mite buildup.	3
	Acramite	0.75-1.0 lb		1
	Aza-Direct	3.5 pt		4 hours
	Zeal	2-3 oz		0
EARLY BLOOM THROUGH BLOOM			SAVE THE BEES!! DO NOT APPLY INSECTICIDES DURING BLOOM!!	
POST-BLOOM TO HARVEST				
Rednecked Cane Borer	Admire Pro	10.5-14 fl oz	Do not apply Admire Pro pre-bloom or when bees are foraging. Do not exceed 14 fl oz Admire Pro per season nor 32 fl oz Couraze per season. Apply Admire Pro or Couraze as a soil application using 500 gal per acre for rednecked cane borer control.	7
Thrips	Couraze 2F	24-32 fl oz		7
	Couraze 4F	12-16 fl oz		7
	Aza-Direct	3.5 pt		4 hours
Japanese Beetle	Actara	3 oz	Do not exceed 6 oz Actara per acre per season. If leaf bronzing is occurring and mites are present, apply a foliar spray of Danitol. Do not exceed 12.8 fl oz per acre Brigade per season.	3
Stink Bugs	Admire 2F	24-32 oz		7
	Bifenthrin 2 EC	6.4 fl oz		3
Spider Mites	Brigade 2 EC	6.4 fl oz	Apply miticide if scouting detects between 1 and 5 spider mites per leaf.	3
	Danitol 2.4 EC	16 fl oz		3
	Acramite 50WS	0.75-1.0 lb	1	
	Savey DF	4-6 oz	Do not make more than 1 application of Savey per year. JMS Stylet Oil and M-Pede are approved for organic production. M-Pede may cause plant injury if plants are drought stressed or temperatures exceed 90° F.	3
	JMS Stylet Oil	3-6 qt		0
	M-Pede	2 gal/100 gal		0

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Leafrollers	Deliver	0.25-1.5 lb	Deliver and Javelin are formulations of <i>Bacillus thuringiensis</i> var. <i>kurstaki</i> (Bt). These are approved for organic production. Leafrollers are usually NOT a problem in caneberries.	0
	Javelin WG	0.25-1.0 lb		0
Japanese Beetle	Assail 30SG	4.5-5.3 oz	From mid-June to late July, check for foliage feeding by Japanese beetle or fruit feeding by green June beetle and spray weekly as needed with 7-day minimum interval between applications. Pyganic and Surround are approved for organic production. After harvest, you can suppress Japanese beetle foliar feeding by applying enough Surround to white-wash the foliage. Re-apply Surround as needed to maintain white-washed appearance. Supplemental controls may be needed for complete insect control.	1
Green June Beetle	Assail 70WP	1.9-2.3 oz		1
	Sevin 4F	1-2 qt		7
	Sevin 80S	2.5 lb		7
	Malathion 5EC	3 pt		1
	Malathion 8F	1-4 pt		1
	Pyganic 1.4	16-64 fl oz		0
	Surround WP	25-50 lb		0
RED IMPORTED FIRE ANTS				
ALL FIRE ANT BAITS – Apply when ants are active and soil temperature is above 60°F. Do not treat if rain is anticipated within 6 hours.				
	S-Methoprene (Extinguish)	3-5 Tbsp/mound 1-1.5 lb/acre	Mound-to-mound treatment rate. Broadcast rate. This product is an insect growth regulator (IGR). Apply 3 to 4 weeks prior to harvest date.	