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# 2016 Chart Book: Insect Management At-A-Glance

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## INSECT MANAGEMENT 2016 AT A GLANCE

Prepared by A.L. Averill and M.M. Sylvia as an addendum to the 2016 Chart Book  
 UMass Cranberry Station <http://ag.umass.edu/cranberry> 508-295-2212 x 20

**ALWAYS READ THE LABEL and REFER TO 2016 CRANBERRY CHART BOOK**

PRACTICE (AI)	RATE/A	INSECT TARGETED	NOTES
Actara* (thiamethoxam)	2-4 oz	cranberry weevil flea beetle suppression	Do not exceed 12 oz per season, high bee toxicity. No Zone II.
<b>Altacor</b> (chlorantraniliprole)	3-4.5 oz	cranberry fruitworm <i>Sparganothis</i> fruitworm blackheaded fireworm	Good system required for efficacy. Do not exceed 9 oz/season. Bee safe! Target eggs and small larvae.
Admire Pro (imidacloprid)	7-14 fl oz	striped colaspis	Best against just hatched larvae. Use soil drench application.
Mana Alias 4F, Wrangler	8-16 fl oz	oriental beetle	
Admire 2F, Alias 2F	16-32 fl oz		
Nuprid 2F, Widow	16-32 fl oz		
Assail 30 SG (acetamiprid)	4-6.9 oz	blackheaded fireworm, CB fruitworm <i>Sparganothis</i> fruitworm, gypsy moth	
<b>Avaunt</b> (indoxacarb)	6 oz	cranberry weevil blackheaded fireworm cutworms**	Only for spring weevil populations. No flow through bogs, hold water 1 day.
<i>Bacillus thuringiensis</i> based products		gypsy moth, armyworms cutworms, spanworms	Best in low gallonage, against early stage larvae, in well-timed systems.
Belay (clothianidin)	6 oz	cranberry weevil, flea beetle	Foliar summer app only, high bee tox!
Belay (clothianidin)	12 oz	scarab grubs, striped colaspis flea beetle	Soil drench, summer only, high bee tox! Do not exceed 12 oz per season!
<b>Delegate</b> WG (spinetoram)	3-6 oz	CB fruitworm** flea beetle suppression** blackheaded fireworm, <i>Sparganothis</i> fruitworm cutworms, spanworms	High bee toxicity, needs to dry on. Spray at night during bloom as long as dry by morning
Diazinon 50 W* (diazinon)	4-6 lb	fireworms, CB fruitworm	Toxic to bees, hold water 3 days. 5 day REI, 3 apps/season, 14 day spray interval except AG500 with 7-day.
<b>Diazinon AG500*</b>	4-6 pt	cutworms**, flea beetle**	
Diazinon AG600*	51-76.5 oz	striped colaspis**	
Flood, late water		CB fruitworm, southern red mite, gypsy moth and cutworms	April 15-20, hold for 30 days.

\* Restricted Use

\*\*FIFRA 2ee recommendation

**Bold** indicated best choice management compounds

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PRACTICE (AI)	RATE/A	INSECT TARGETED	NOTES
Flood, spring		cutworms	May, hold for 24 hours
Flood, spring		BH Fireworm, YH Fireworm	May, hold for 48 hours
Flood, summer		cranberry root & white grub	<i>Loss of crop</i> , mid-May to mid-July.
Imidan 70W (phosmet)	1.33-4 lbs	fireworms, CB fruitworm	Little efficacy data available in MA.
<b>Intrepid 2F*</b> (methoxyfenozide)	10-16 fl oz	blackheaded fireworm, cutworms**, spanworms, <i>Sparganothis</i> fruitworm,	Insect growth regulators: Intrepid is more active and has greater residual than Confirm. However, Intrepid is Zone II and restricted use.
Confirm 2F (tebufenozide)	16 fl oz	gypsy moth, spanworms	
Lorsban 4E* (chlorpyrifos)	3 pt	cranberry weevil, cutworms	<i>Extremely toxic to fish.</i> Hold water at least 5 days, use only 2 times/season 60 day PHI, 24 hr REI. Most populations of weevil and <i>Sparganothis</i> are resistant to Lorsban. Note 75 WG is not restricted.
Hatchet*, Nufos 4E*	3 pt	fireworms, spanworms	
Lorsban Advanced*	3 pt	<i>Sparganothis</i> fruitworm	
Chlorpyrifos 4E AG*	3 pt	Cranberry fruitworm	
Lorsban 75 WG	2 lb		
Nematodes		black vine & strawberry root weevil cranberry girdler	Apply early evening in May or Sept  Apply 2 weeks after end of moth flight
Nexter (pyramite)	3.5-7.0 oz	southern red mite	Low-end rate usually gives excellent control.
Orthene 97 (acephate)	1 lb	gypsy moth	Only 1 app per season, 90 day PHI.
Acephate 97UP	1 lb	fireworms	Beware bee toxicity, 24 hr REI
Acephate 90 WSP, 90 WDG	1.1 lb	cutworms	
Acephate 90 Prill	1.1 lb	spanworms	
Sevin XLR Plus (carbaryl)	1.5-2 qt	fireworms, gypsy moth,	Avoid application within 10 days of start of bloom, 7 day PHI, no more than 5 app/season, 7 day application interval.
Sevin 4F, Carbaryl 4L	1.5-2 qt	cutworms, CB fruitworm cranberry flea beetle striped colaspis	
Scorpion * (dinotefuran)		cranberry fruitworm <i>Sparganothis</i> , flea beetle	suppression only high bee toxicity

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