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## 2014 Chart Book: Insect Management At-A-Glance

Item Type	public;article
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Download date	2026-06-16 17:59:09
Link to Item	<a href="https://hdl.handle.net/20.500.14394/9360">https://hdl.handle.net/20.500.14394/9360</a>

## INSECT MANAGEMENT 2014 AT A GLANCE

Prepared by Anne L. Averill and Martha M. Sylvia

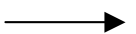
University of Massachusetts, Cranberry Station, PO Box 569, East Wareham, MA 02538

### *ALWAYS READ THE LABEL and REFER TO 2014 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.
Altacor (chlorantraniliprole)	3-4.5 oz	Cranberry fruitworm Sparganothis fruitworm blackheaded fireworm	New chemistry. 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.
Mana Alias 4F, Wrangler	8-16 fl oz	oriental beetle	Use soil drench application.
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, <i>Sparganothis</i> fruitworm gypsy moth, cranberry fruitworm	
Avaunt (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)	4 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!
Delegate WG (spinetoram)	3-6 oz	Cranberry fruitworm** flea beetle suppression**	Spray at night during bloom as long as dry by morning. High bee toxicity, needs to dry on.
Entrust (spinosad)	4-10 fl oz	blackheaded fireworm <i>Sparganothis</i> fruitworm cutworms, spanworms	Delegate is more active with greater residual than Entrust. Better efficacy with shorter rinse times.
Diazinon 50 W* (diazinon)	4-6 lb	fireworms, cranberry fruitworm	Toxic to bees, hold water 3 days
Diazinon AG500*	4-6 pt	cutworms**, flea beetle**	5 day REI, 3 apps/season, 14 day spray interval except AG500 with 7-day.
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.
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.

\* Restricted Use    \*\* FIFRA 2ee recommendation    #handler restrictions, check with handler before using

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PRACTICE (AI)	RATE/A	INSECT TARGETED	NOTES
#Imidan 70W (phosmet)	1.33-4 lbs	fireworms, CB fruitworm	Little efficacy data available in MA.
Intrepid 2F* (methoxyfenozide)	10-16 fl oz	blackheaded fireworm cutworms**, spanworms	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	<i>Sparganothis</i> fruitworm 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 in early evening in May and/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.
#Oberon (spiromefesin)	12-16 fl oz	southern red mite**	New label, efficacy needed.
#Orthene 97 (acephate)	1 lb	gypsy moth	Only 1 app per season, 90 day PHI Beware bee toxicity, 24 hr REI
Acephate 97UP	1 lb	fireworms	
Acephate 90 WSP	1.1 lb	cutworms	
Acephate 90 WDG	1.1 lb	spanworms	
Acephate 90 Prill	1.1 lb		
#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	
Sevin 80S (Solupak)	1.88-2.5 lb	cranberry flea beetle striped colaspis	
#Scorpion/Venom* (dinotefuran)		cranberry fruitworm sparganothis flea beetle	suppression only high bee toxicity

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