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2014 Chart Book: Insect Management At-A-Glance

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INSECT MANAGEMENT 2014 AT A GLANCE

Prepared by Anne L. Averill and Martha M. Sylvia

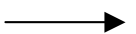
University of Massachusetts, Cranberry Station, PO Box 569, East Wareham, MA 02538

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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#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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