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## 2018-2020 Chart Book: Insect at a Glance

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## INSECT MANAGEMENT 2018 AT A GLANCE

Prepared by A.L. Averill and M.M. Sylvia as an addendum to the 2018-2020 Chart Book

UMass Cranberry Station <http://ag.umass.edu/cranberry> 508-295-2212 x 20

*ALWAYS READ THE LABEL and REFER TO 2018-2020 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	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		
Alias 4F, Nuprid 4F, Wrangler	8-16 fl oz	striped colaspis, oriental beetle	Best against just hatched larvae. Use soil drench application.
Admire 2F, Alias 2F, Malice, Nuprid 2SC, Widow	16-32 fl oz		
Assail 30 SG, Anarchy (acetamiprid)	4-6.9 oz	blackheaded fireworm, CB fruitworm, <i>Sparganothis</i> fruitworm, gypsy moth	
<b>Avaunt</b> (indoxacarb)	6 oz	cranberry weevil, spanworms, blackheaded fireworm, cutworms, gypsy moth**	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 / season!
Cormoran (novaluron/acetamiprid)	12 oz	cutworms, spanworms, fireworms, fruitworms	Little efficacy data available in MA.
<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	scale, striped colaspis**	
Imidan 70W (phosmet)	1.33-4 lbs	fireworms, CB fruitworm	Little efficacy data available in MA.

\* Restricted Use

\*\*FIFRA 2ee recommendation

**Bold** indicates best choice management compounds

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<b>Intrepid 2F*</b> Troubadour, Turnstyle (methoxyfenozide)	10-16 fl oz	blackheaded fireworm, cutworms**, spanworms, <i>Sparganothis</i> fruitworm,	Insect growth regulators: methoxyfenozide is more active and has greater residual than Confirm. However, methoxyfenozide is Zone II and restricted use.
Confirm 2F (tebufenozide)	16 fl oz	gypsy moth, spanworms	
Lorsban 4E*	3 pt	cranberry weevil,	<i>Highly toxic to bees and fish!!!</i>
Lorsban Advanced*	3 pt	cutworms, fireworms,	Hold water at least 5 days, use only 2 times/season 60 day PHI, 24 hr REI.
Chlorpyrifos 4E AG* and & other chlorpyrifos formulations*	3 pt	spanworms,	Most populations of weevil and <i>Sparganothis</i> are resistant to Lorsban.
Lorsban 75 WG	2 lb	<i>Sparganothis</i> fruitworm Cranberry fruitworm	Note 75 WG is not restricted.
Movento (spirotetramat)	8-10 fl oz	cranberry tipworm	Post bloom only. No Chemigation.
Nematodes		black vine and 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 gives excellent control.
Orthene 97 (acephate)	1 lb		
Acephate 97UP, 97WDG	1 lb	gypsy moth, fireworms,	Only 1 app per season, 90 day PHI.
Acephate 90 WSP, 90 WDG	1.1 lb	cutworms, spanworms	Beware bee toxicity, 24 hr REI.
Acephate 90 Prill	1.1 lb		
Sevin XLR Plus (carbaryl) Sevin 4F, Carbaryl 4L	1.5-2 qt	fireworms, gypsy moth, winter moth**, cutworms CB fruitworm, flea beetle striped colaspis	Avoid application within 10 days of start of bloom, 7 day PHI, no more than 5 app/season, 7 day application interval.
Scorpion* (dinotefuran)		cranberry fruitworm <i>Sparganothis</i> , flea beetle	suppression only, high bee toxicity Zone II, No Chemigation.
Flood, late water		CB fruitworm, southern red mite, gypsy moth, cutworms, scale	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.
Flood, fall		cranberry girdler	Late September, hold for 1 week

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**Bold** indicates best choice management compounds

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