



University of
Massachusetts
Amherst

2017 Chart Book: Insect Management At-A-Glance

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INSECT MANAGEMENT 2017 AT A GLANCE

Prepared by A.L. Averill and M.M. Sylvia as an addendum to the 2017 Chart Book
 UMass Cranberry Station <http://ag.umass.edu/cranberry> 508-295-2212 x 20

ALWAYS READ THE LABEL and REFER TO 2017 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 <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 oriental beetle | Best against just hatched larvae. Use soil drench application. |
| Alias 4F, Nuprid 4F, Wrangler | 8-16 fl oz | | |
| Admire 2F, Alias 2F, Nuprid 2SC, Widow | 16-32 fl oz | | |
| Assail 30 SG (acetamiprid) | 4-6.9 oz | blackheaded fireworm, CB fruitworm <i>Sparganothis</i> fruitworm, gypsy moth | |
| Avaunt (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 per season! |
| Delegate 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 cutworms**, flea beetle** striped colaspis** | Toxic to bees, hold water 3 days. 5 day REI, 3 apps/season, 14 day spray interval except AG500 with 7-day. |
| Diazinon AG500* | 4-6 pt | | |
| Diazinon AG600* | 51-76.5 oz | | |
| Flood, late water | | CB fruitworm, southern red mite, gypsy moth, cutworms, scale | April 15-20, hold for 30 days. |

* Restricted Use

**FIFRA 2ee recommendation

Bold indicates best choice management compounds

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|--|-------------|--|--|
| 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 |
| 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, <i>Sparganothis</i> fruitworm, gypsy moth, 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 | | |
| 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, 97WDG | 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) 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 ZoneII, No Chemigation |

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