

3-2014

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

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Averill, Anne and Sylvia, Martha M., "2014 Chart Book: Insect Management At-A-Glance" (2014). *Cranberry Chart Book - Management Guide*. 178.

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## INSECT MANAGEMENT 2014 AT A GLANCE

Prepared by Anne L. Averill and Martha M. Sylvia

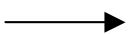
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### *ALWAYS READ THE LABEL and REFER TO 2014 CRANBERRY CHART BOOK*

| PRACTICE (AI)                                   | RATE/A      | INSECT TARGETED  | NOTES  |
|---|-------------|--|--|
| Actara* (thiamethoxam)                          | 2-4 oz      | cranberry weevil<br>flea beetle suppression  | Do not exceed 12 oz per season, high bee toxicity. No Zone II.   |
| Altacor (chlorantraniliprole)                   | 3-4.5 oz    | Cranberry fruitworm<br>Sparganothis fruitworm<br>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<br>gypsy moth, cranberry fruitworm |  |
| Avaunt (indoxacarb)                             | 6 oz        | cranberry weevil<br>blackheaded fireworm<br>cutworms**                                 | Only for spring weevil populations. No flow through bogs, hold water 1 day.  |
| <i>Bacillus thuringiensis</i><br>based products |             | gypsy moth, armyworms<br>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<br>flea beetle  | Soil drench, summer only, high bee tox!<br>Do not exceed 12 oz per season!   |
| Delegate WG (spinetoram)                        | 3-6 oz      | Cranberry fruitworm**<br>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<br><i>Sparganothis</i> fruitworm<br>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<br>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<br>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<br>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<br>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 &<br>strawberry root weevil<br>cranberry girdler | Apply in early evening in May and/or Sept.<br>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<br>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<br>striped colaspis                   |  |
| #Scorpion/Venom*<br>(dinotefuran) |             | cranberry fruitworm<br>sparganothis<br>flea beetle          | suppression only<br>high bee toxicity  |

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