

## SUMMARY OF CODLING MOTH CONTROL OPTIONS, TIMING AND LIFE CYCLE- 2015

### COVER SPRAY APPLICATION THRESHOLD

A cover spray is recommended whenever **all codling moth traps in an orchard average 2 moths/trap/week for 2 consecutive weeks**; for more valuable fruit varieties, consider using 1 moth/trap/week for 2 consecutive weeks.

### TIMING AND SELECTION OF COVER SPRAYS

The following table lists the accumulated degree day totals at which codling moth development stages will appear in your orchard. Once eggs begin to hatch, watch your trap captures and once the threshold is reached, apply a cover spray. Only spray if the weather is favourable. Observe the product label for recommended re-spray interval and pre-harvest interval. Make sure cover sprays are applied at the correct time with a properly calibrated and operated sprayer to ensure thorough and uniform coverage of all host trees on the property. Properly pruned trees will also improve spray coverage.

Visit the SIR Program web site ([www.oksir.org](http://www.oksir.org)) to keep track of the trap captures for your orchards and the degree day total for your area. Read pages 6-11 to 6-14 in the latest Tree Fruit Production Guide for more information on codling moth biology and control options. ALWAYS READ THE PRODUCT LABEL BEFORE USING.

Degree days total	Codling moth stage	Recommended products and practices
100	Start of 1 <sup>st</sup> brood moth emergence	None
150	Beginning of egg laying	Apply an ovicide (Altacor, Assail, Calypso, Intrepid, or Rimon) only if high damage the previous year and weather favours codling moth activity.
220	Start of 1 <sup>st</sup> brood egg hatch (larvae appear)	Apply any of these products when thresholds are reached after eggs begin to hatch: Altacor, Assail, Calypso, Confirm, Cyd-X*, Delegate, Entrust*, Exirel, Intrepid, Rimon, TwinGuard, Virosoft* (*certified for organic production)
500	End of emergence of 1 <sup>st</sup> brood moths	
575	Start of 2 <sup>nd</sup> brood moth emergence	
650	End of 1 <sup>st</sup> brood egg hatch	Inspect trees for infested fruit and destroy.
700	Start of 2 <sup>nd</sup> brood egg hatch (larvae appear)	Apply any of these products when 2 <sup>nd</sup> brood thresholds are reached after eggs begin to hatch: Altacor, Assail, Calypso, Confirm, Cyd-X*, Delegate, Entrust*, Exirel, Intrepid, Rimon, TwinGuard, Virosoft* (*certified for organic production)
1140	End of emergence of 2 <sup>nd</sup> brood moths	
1160	Start of 3 <sup>rd</sup> brood moth emergence	
1275	End of 2 <sup>nd</sup> brood egg hatch	Inspect trees for infested fruit and destroy.
1300	Start of 3 <sup>rd</sup> brood egg hatch	See above recommendations; read label for pre-harvest interval limits

# Codling Moth Life Cycle and Timing of Control Options

