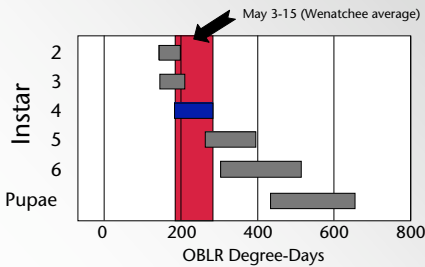


Spring Obliquebanded Leafroller Control Using the Latest Insecticides

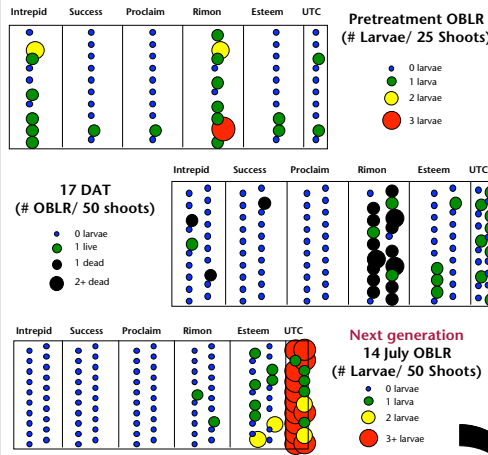
Mike Doerr, Jay Brunner and Keith Granger

Timing OBLR Sprays with New Degree-Day Model

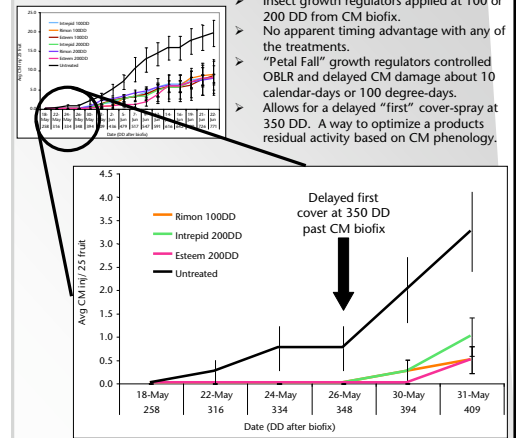
- Thresholds changed to 50-86°F
- Temps collected from Jan 1
- No Biofix, accumulate degree-days (DD) from Jan 1
- Model predicts occurrence of each instar
 - ✓ Target pesticide applications
 - ✓ 4th instar is optimal for most insecticides (190-270 DD)
 - 185-277 Degree-Days (May 3-15 with 30-yr Wenatchee Avg.)
 - ✓ Esteem works only against older larvae (300 DD)



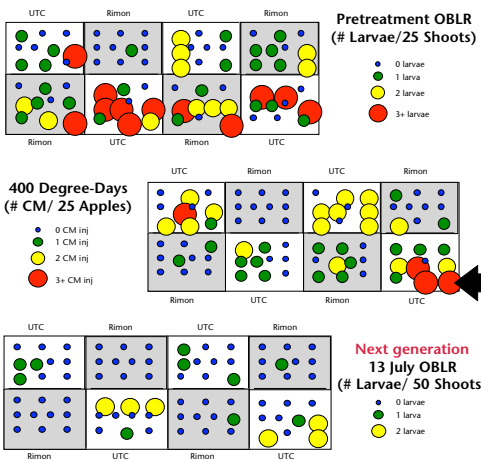
Large Scale Demonstration of Leafroller Control (4-acre plots)



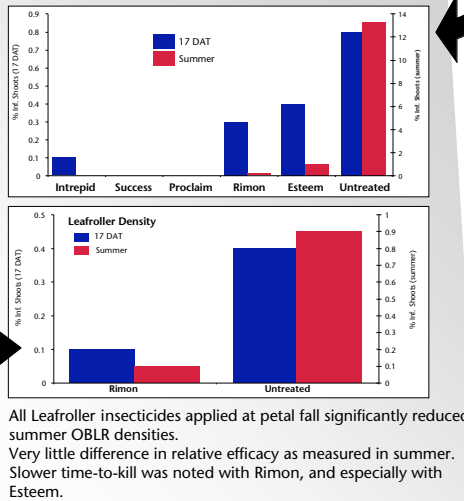
Growth Regulators Control OBLR and Delay CM Damage



Controlling CM and OBLR with a "Petal-Fall" Spray



OBLR Field Data (large plots)



New Tools For CM and LR Control

- Altacor (*Rynaxypyr*)**
 - Novel anthranilimide insecticide from DuPont
 - Active against codling moth and leafroller larvae
 - First commercial sales anticipated in 2008
- Delegate (*Spinetoram*)**
 - New spinosyn insecticide from Dow AgroSciences
 - Active against codling moth and leafroller larvae
 - First commercial sales anticipated in 2008

