



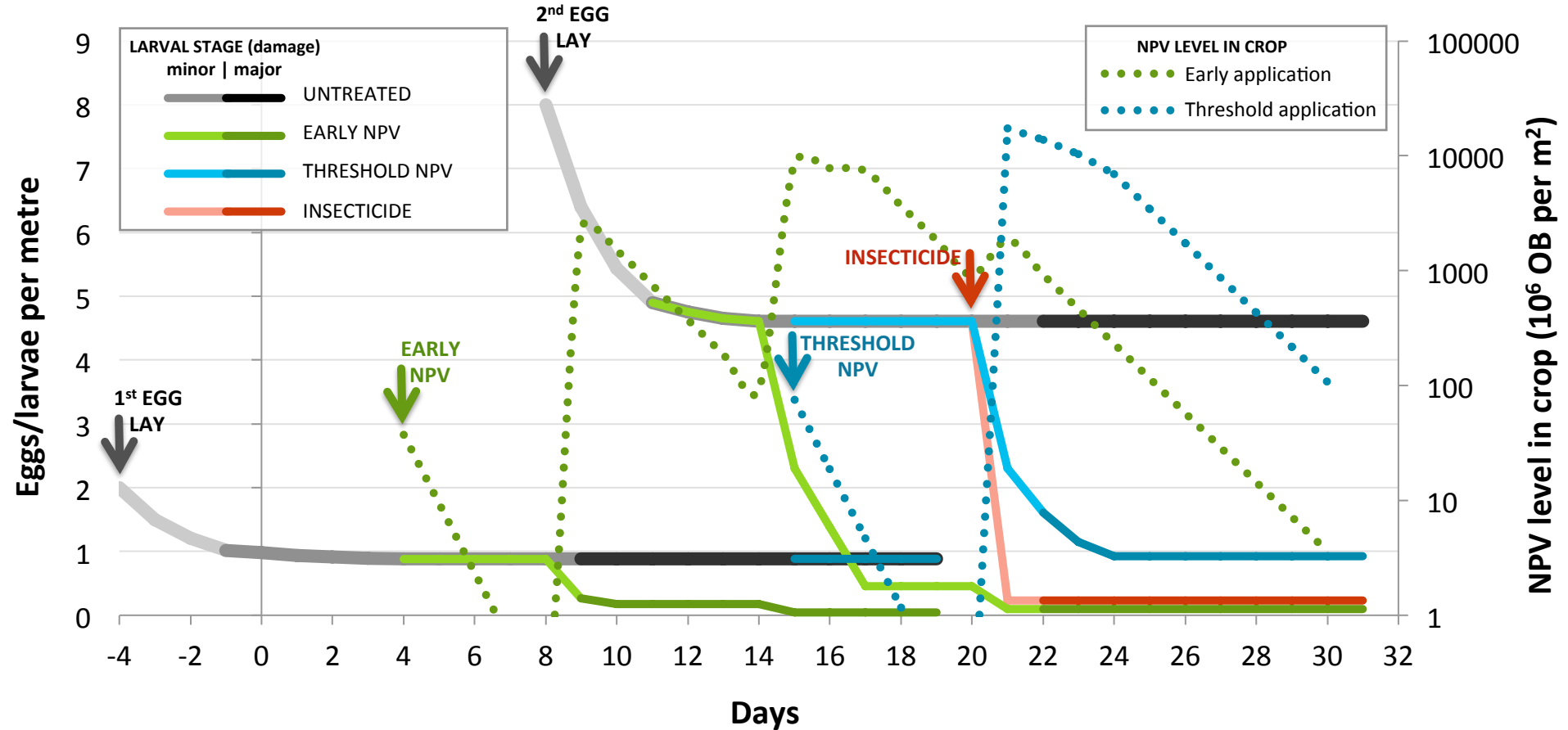
Caterpillar Management in Row-crops Using Pre-emptive Application of NPV

Anthony Hawes - CEO

Key elements for an Early NPV Strategy

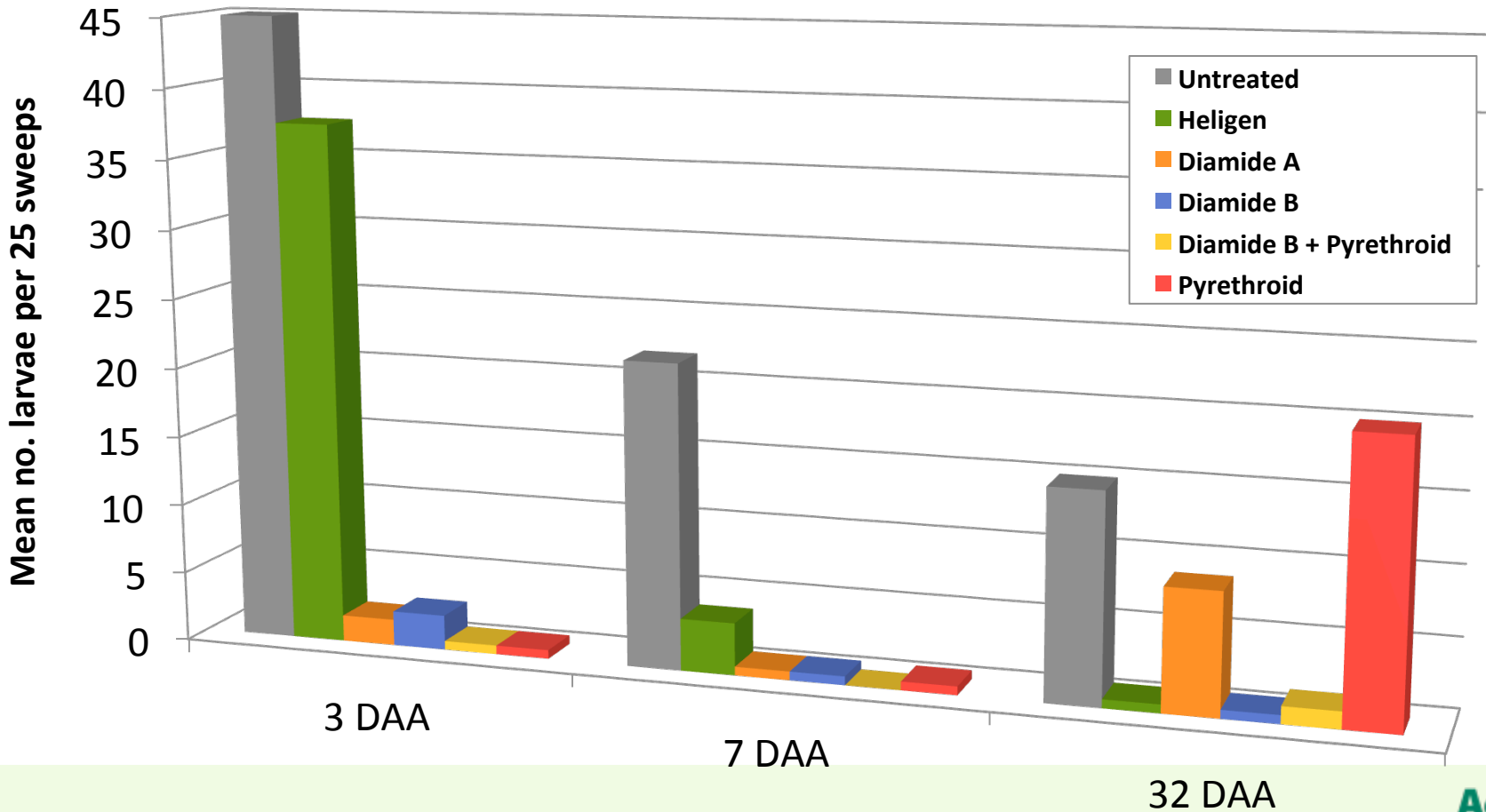
- Exploit the biology of NPV – amplification
- Early (pre-threshold) application
- Low product cost + lower use rates
- Large volumes of high quality NPV
- Underpins conventional pest management in an IPM system (including chemistry)

Concept - Early vs Threshold NPV Use



Heligen in Soybeans – USA (Arkansas) 2011

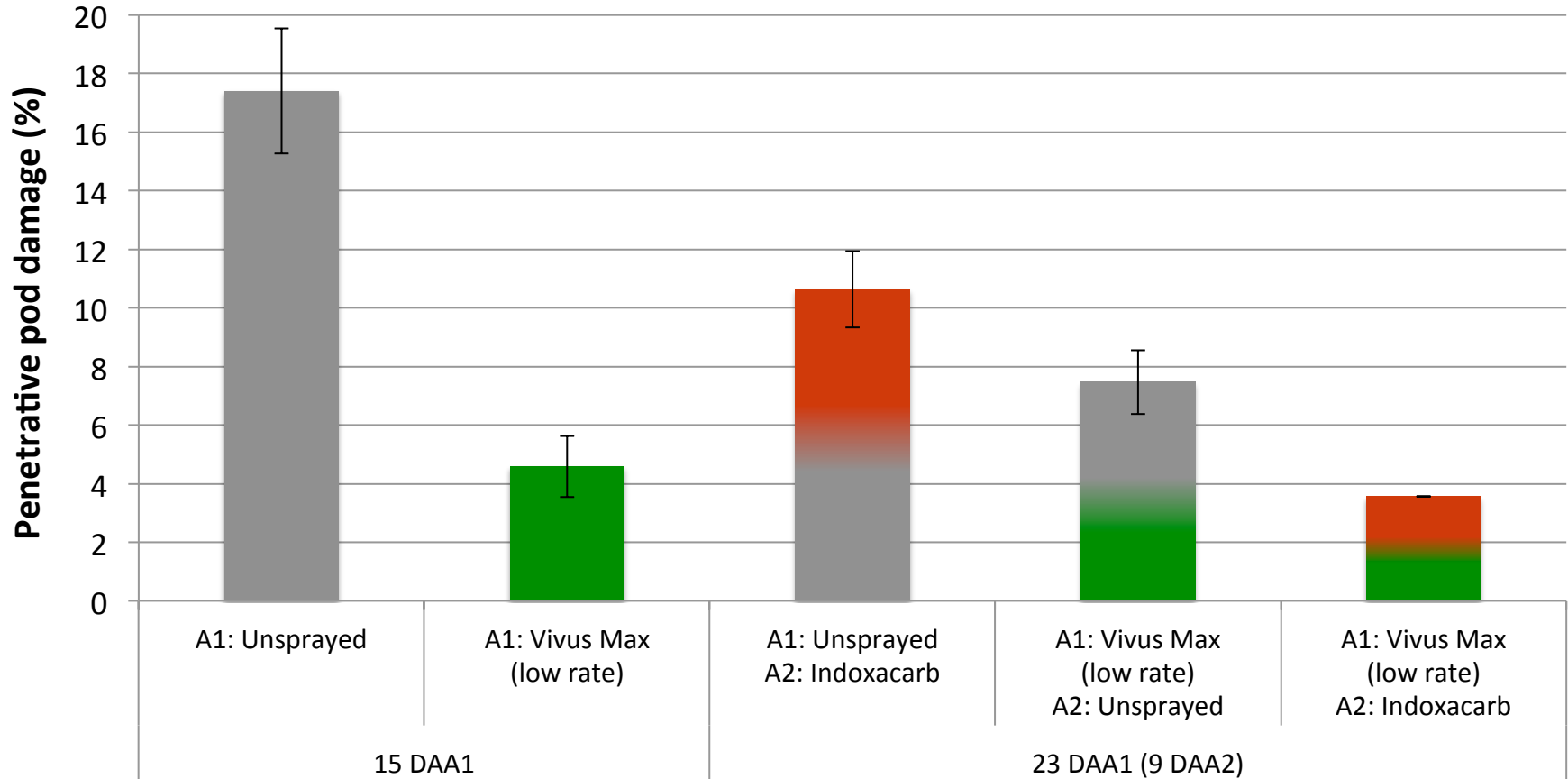
LARVAE NUMBERS



11-008

Vivus Max in Chickpeas – Australia (NSW) 2012

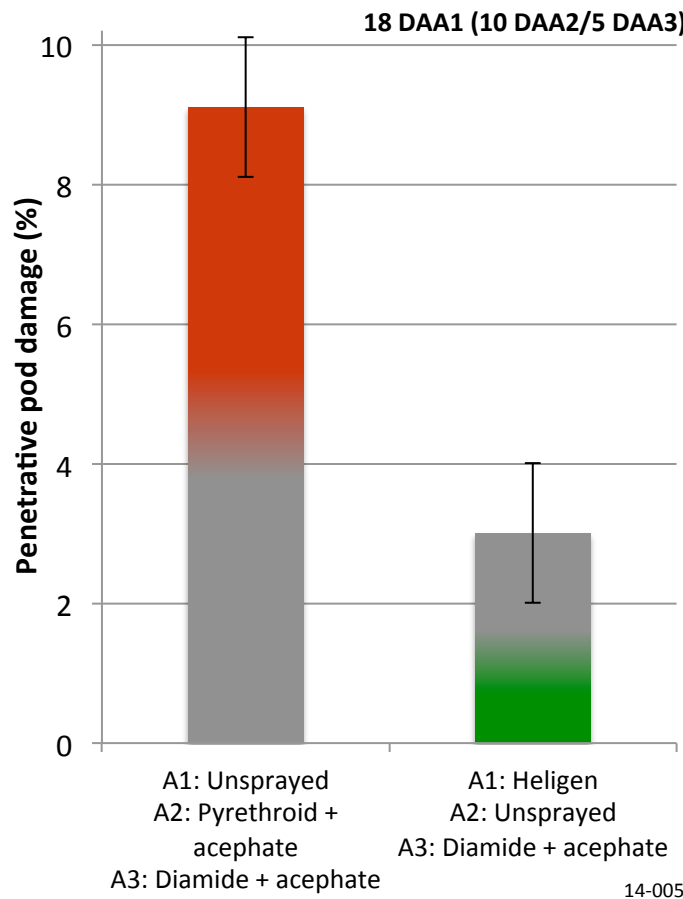
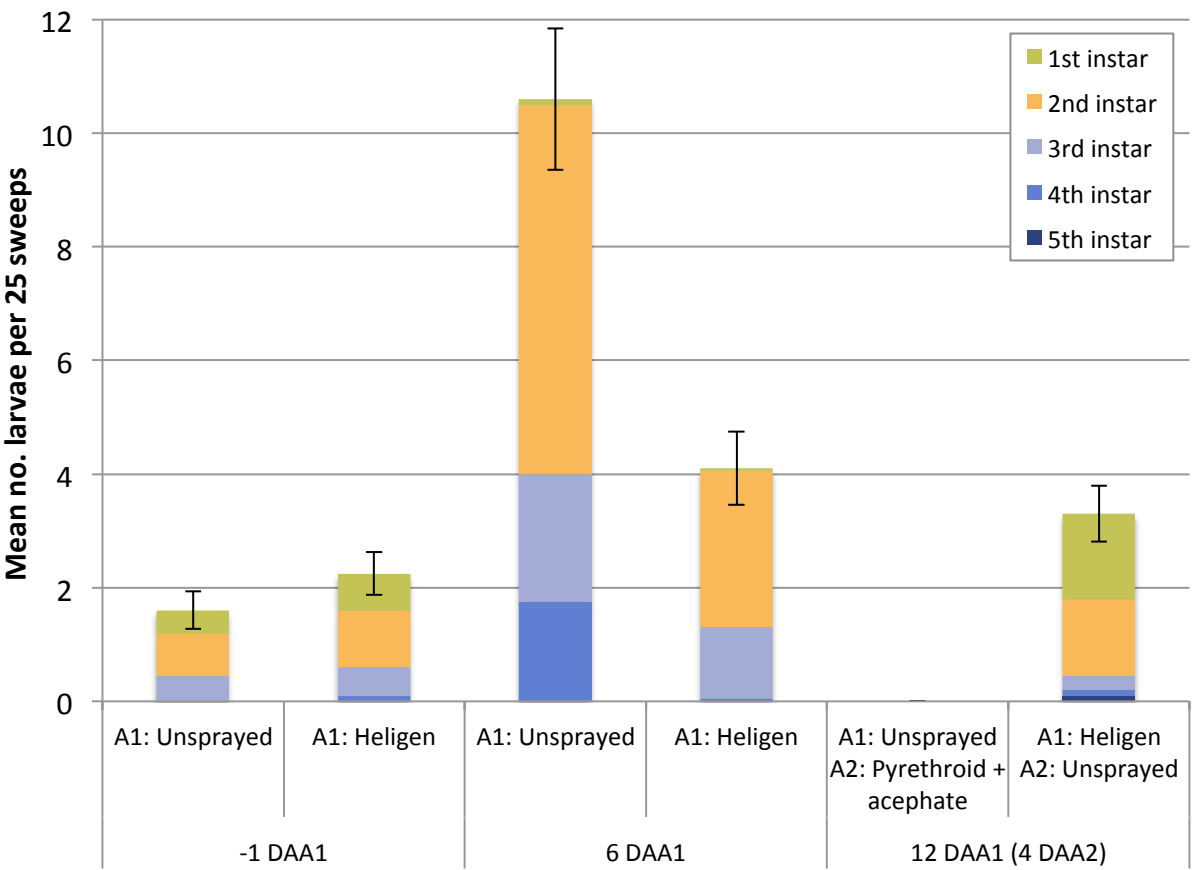
LARVAE DAMAGE



12-011

Heligen in Soybeans – USA (Louisiana) 2014

LARVAE NUMBERS & DAMAGE



14-005

What do early/pre-emptive NPV sprays offer:

- Establish field-wide epizootics
- Suppress larval populations = risk management
- Minimise damage
- Delay and reduce the need for chemical insecticides
- Maximise ecoservices - conserve beneficials
- Excellent return on investment