



# Understanding & managing insects on pistachio orchards (PS16000)

## Pistachio AGM

Robinvale September 13<sup>th</sup> 2018

**Hort  
Innovation**  
Strategic levy investment

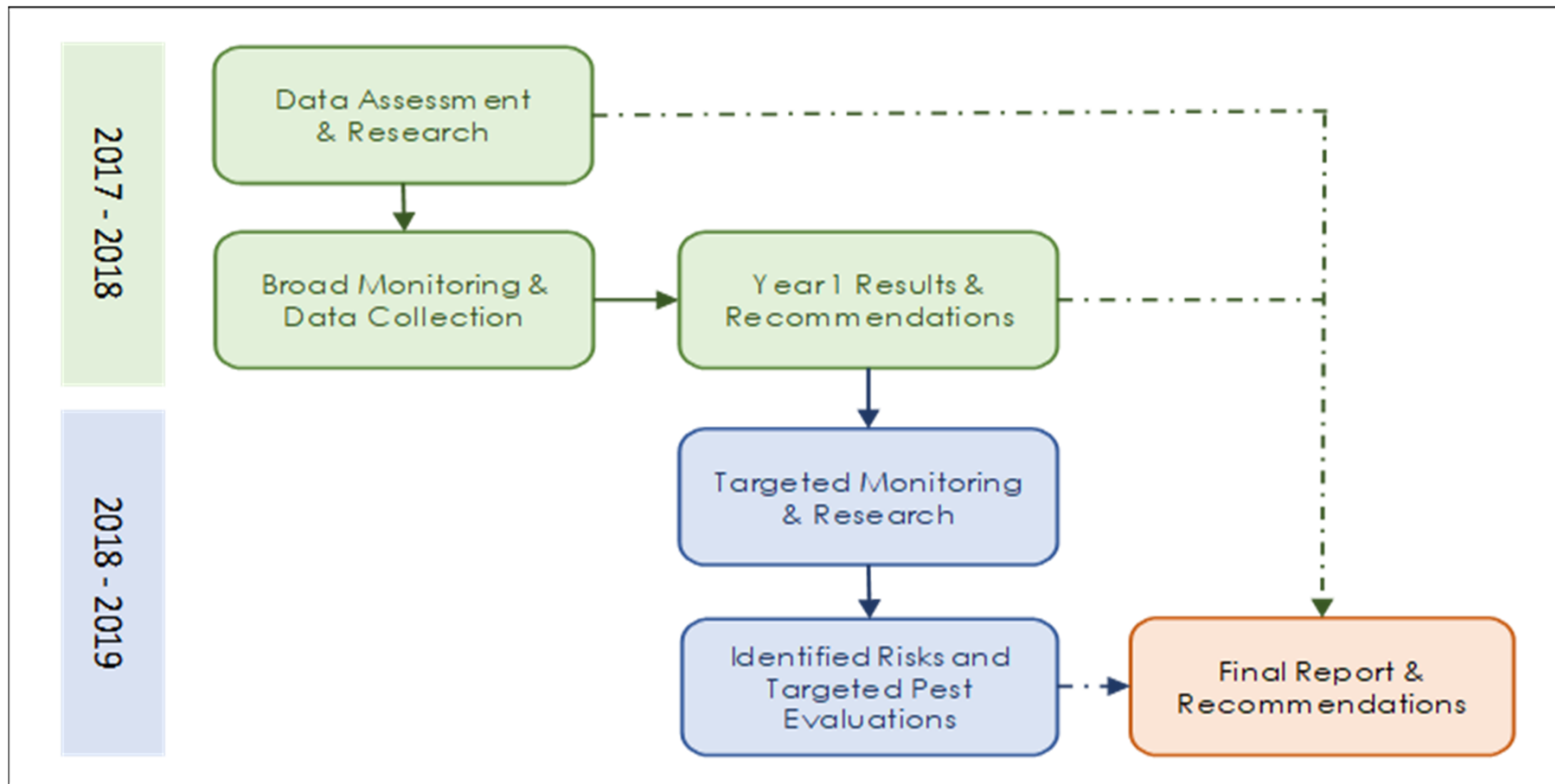
**PISTACHIO  
FUND**

This project has been funded by Hort Innovation using the pistachio research and development levy and funds from the Australian Government. For more information on the fund and strategic levy investment visit [horticulture.com.au](http://horticulture.com.au)

# Objectives of PS1600

1. Review scouting data from previous seasons (2 orchards)
2. “Broad” orchard assessments in 2017/18
3. Focused work in 2018/19
4. Recommendations on proactive steps for potential / emerging pests

# Approach



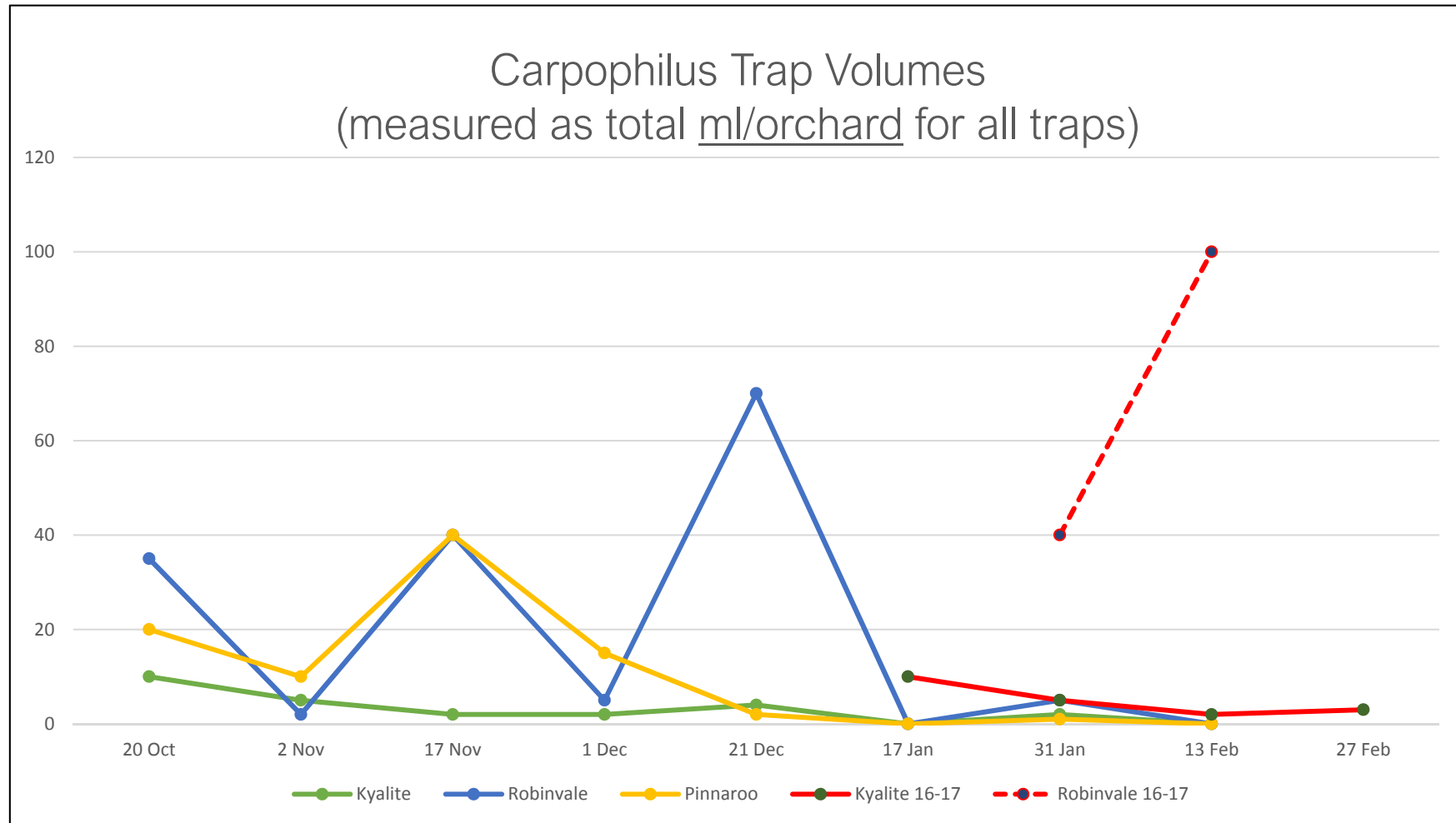
# Year 1 Activities (2017/18)

1. Review scouting results from 2015/16 & 2016/17
2. Traps for LBAM, Carob, *Heliothis*, *Carpophilus*
3. Yellow sticky traps
4. Beat sampling & visual checks
5. 8 visits to each of the 3 orchards (in season)
6. 1 visit post harvest (mummies)
7. Samples to Crop Health Services (Dec & Feb)

# 2017/18 Activities



# Field Results - Carpophilus

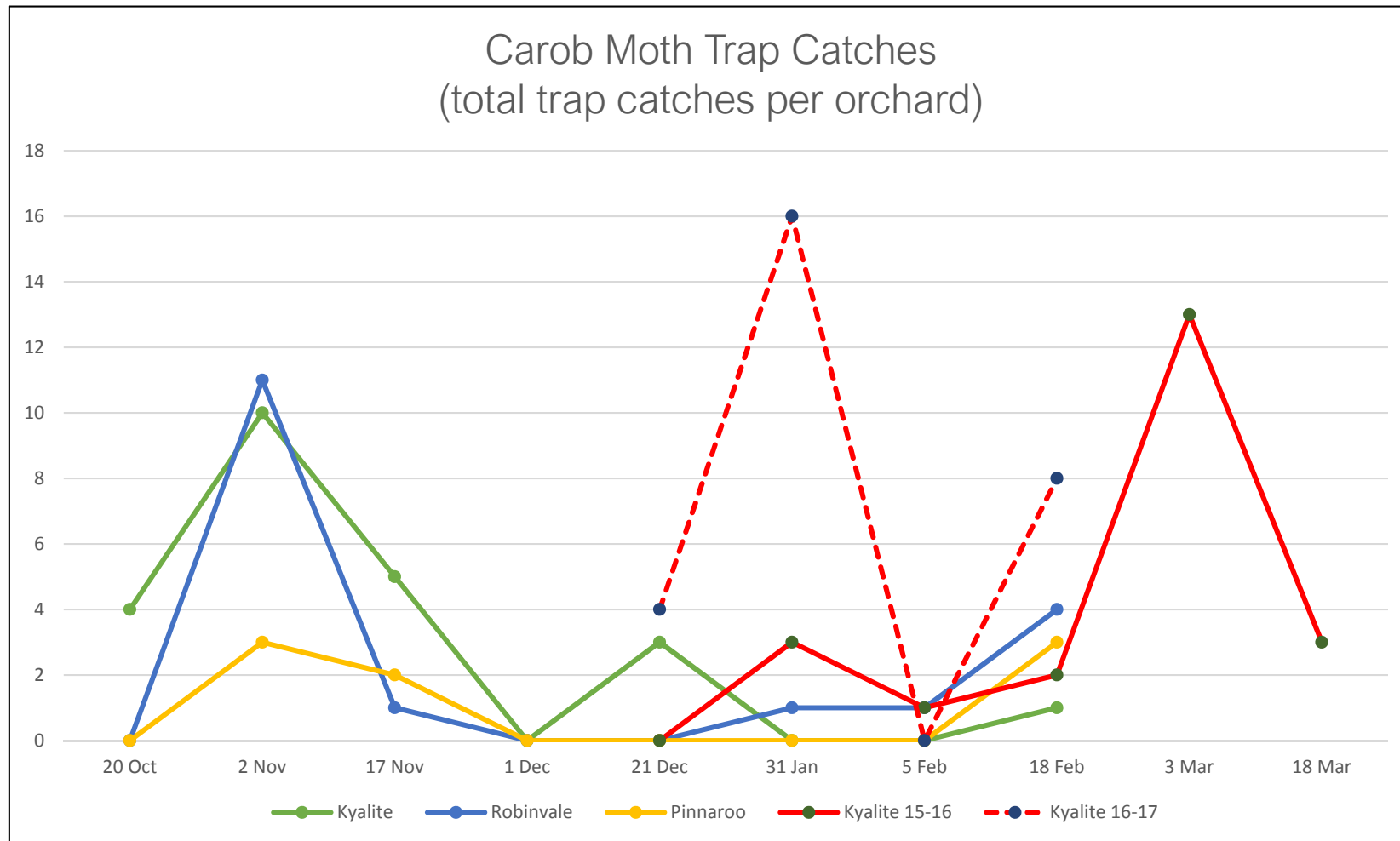


# Sample Results - Carpophilus

- At least 8 species of carpophilus across sites
- *C. nr. dimidiates* found at all sites:
  - December – found at all sites, but <1% of sample
  - February – Pinnaroo = nil
    - Kyalite = 2% to 10% of sample
    - Robinvale = 24% to 57% of sample
- 1500 nuts checked pre-harvest for CB & CM

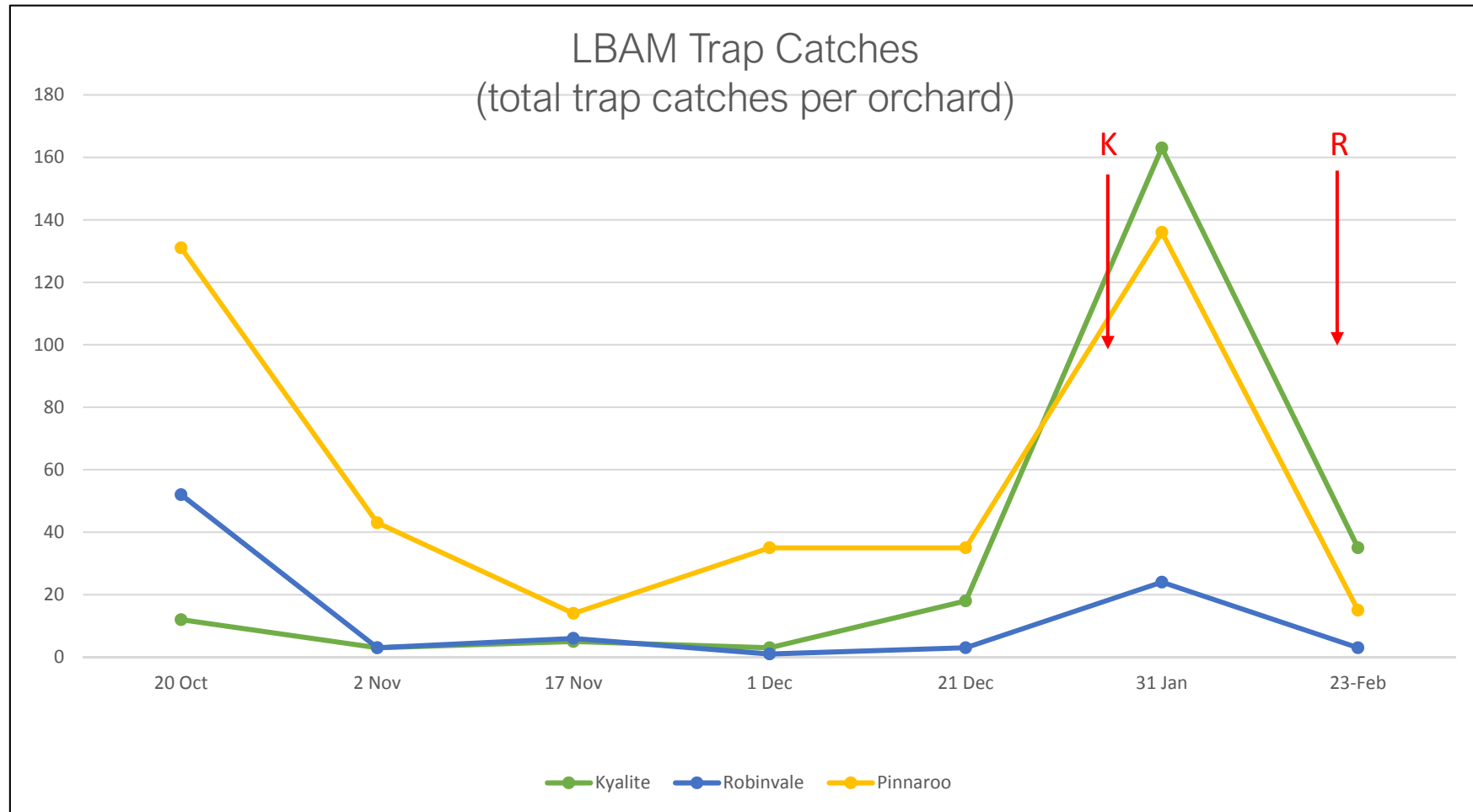
BUT – no damage at any site

# Field Results – Carob Moth





# Field Results – LBAM



## Field Results – Bugs

1. Rutherglen bug found early
2. Apple dimpling bug / other mirids
3. These pests may drop fruit early, but tree compensates (?)
4. Very few large bugs (1-2 per visit)

# Field Results – Bugs



# Field Results – Other things of interest...

1. Weevils & earwigs occasionally
2. Thrips found, but little/no damage
3. Range of other minor pests – mites, mealybug, loopers etc.
- 4. Extremely good levels of beneficials**  
(lacewings, lady bugs, assassin bugs, mantids, beetles, wasps, mites etc.)

# Proposed 2018/19 Activities

## Carob moth/Carpophilus:

- Mummy assessment - completed (results soon!)
- Engage with Almond IPM project on future work

## LBAM & other pests

- Early monitoring of LBAM (traps out last week)
- General pest scouting during visits

# 2018/19 Focus of Activities

## Beneficials:

- 4 visits targeting beneficials of main/potential pests (2 early, 1 mid 1 late)
  - Close collaboration with Almond IPM project for ID
- 
- Key to IPM in Pistachios is to maintain minimum inputs
  - But... also understanding what is out there will help respond to future problems

# Pistachios

## No Pests : No Spraying

(PS16000)

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# Questions?

