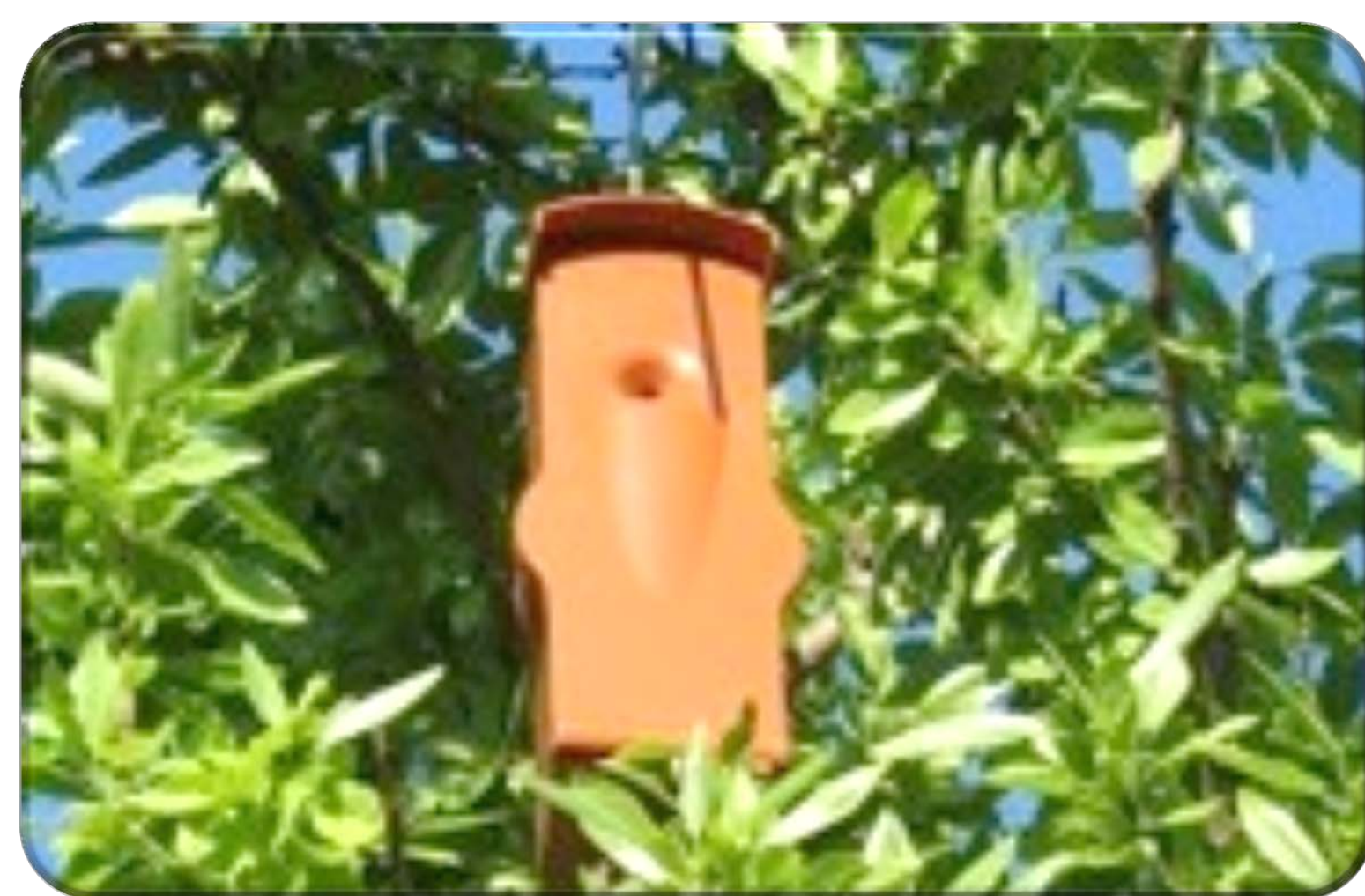


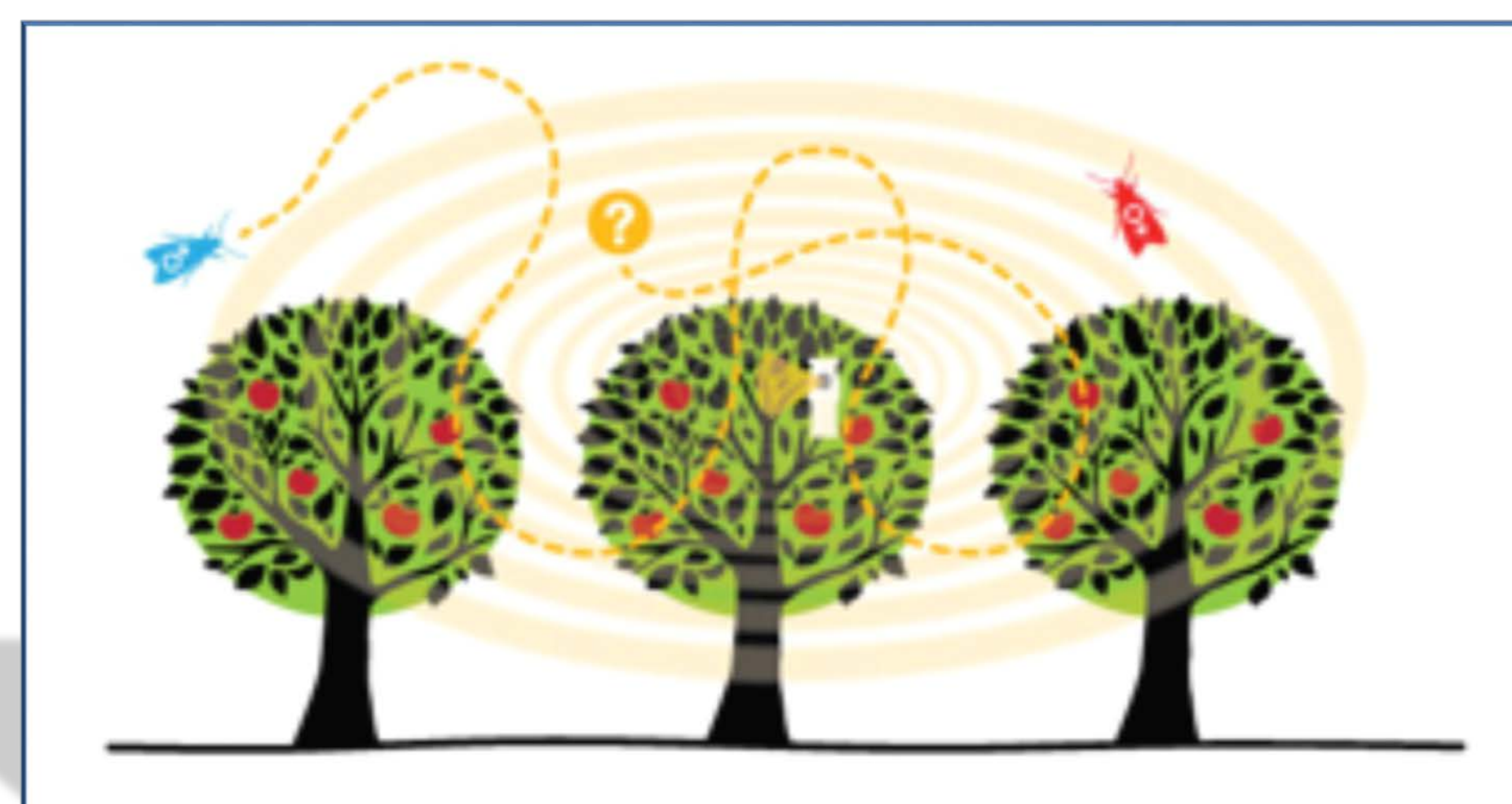
Use of a Host Plant Volatile Blend to Monitor Navel Orangeworm Populations Under Mating Disruption & Conventional Management in Almond

John J. Beck, Bradley S. Higbee, Luisa W. Cheng, and Denis S. Willett



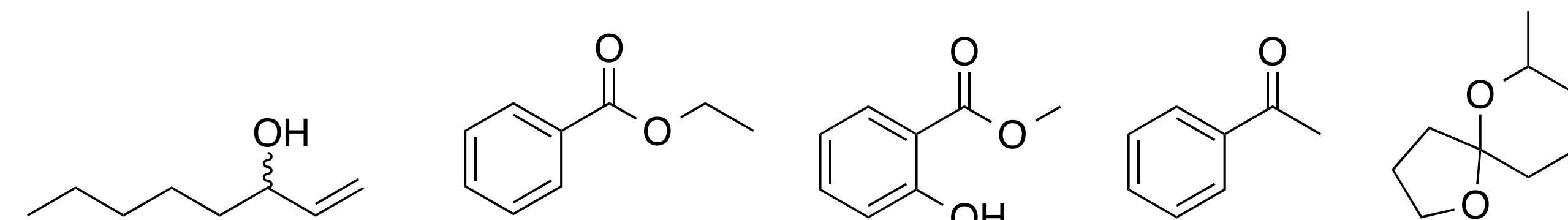
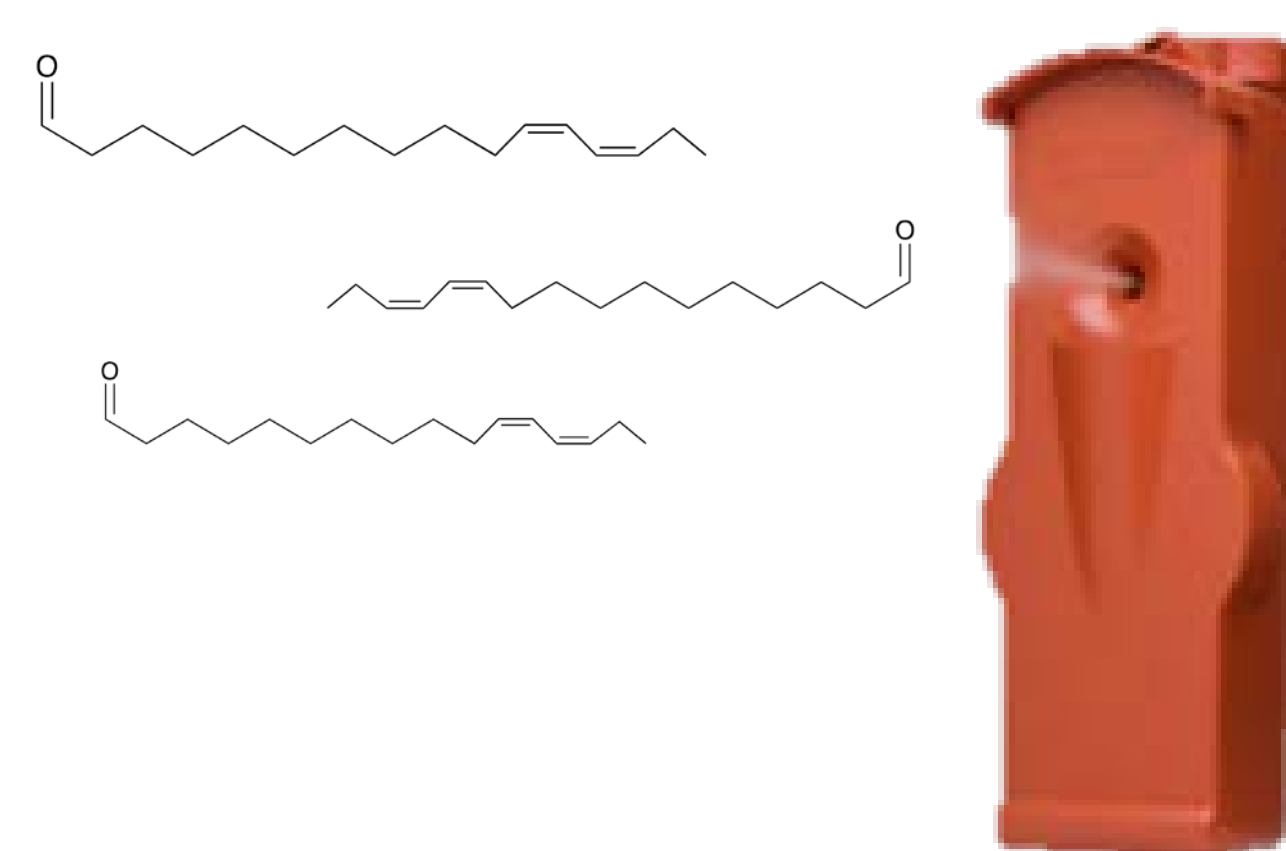
The Project:

Over a multi-year experiment determine if a recently developed blend of synthetic host plant volatiles (the Blend) can efficiently monitor NOW populations during mating disruption studies in almond orchards

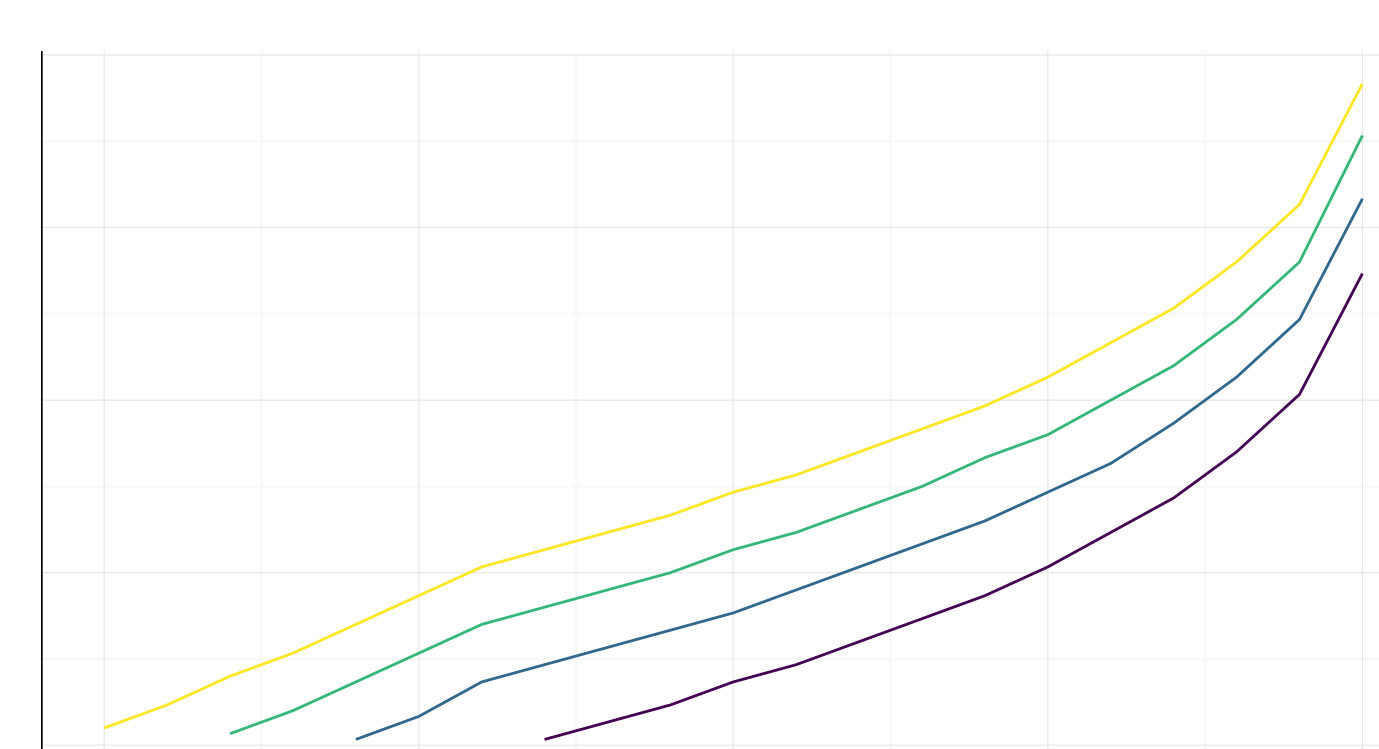
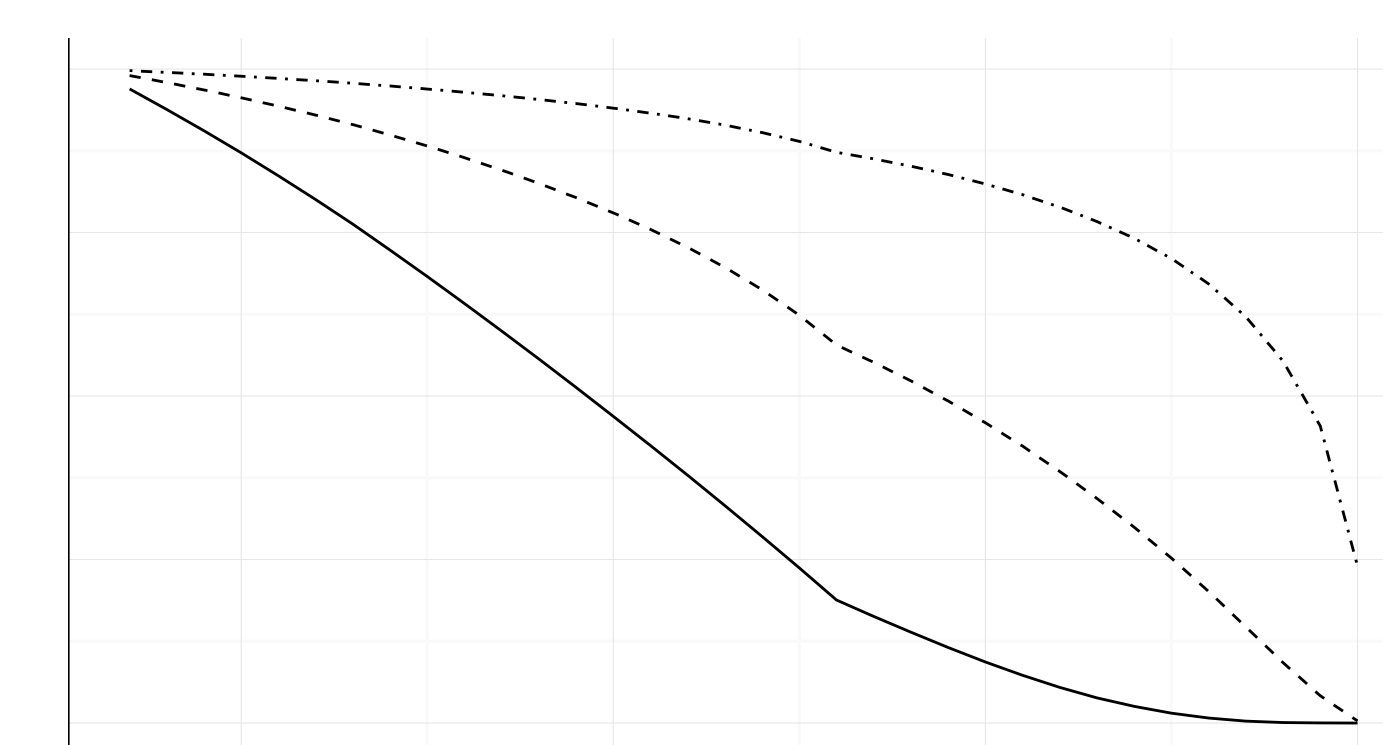
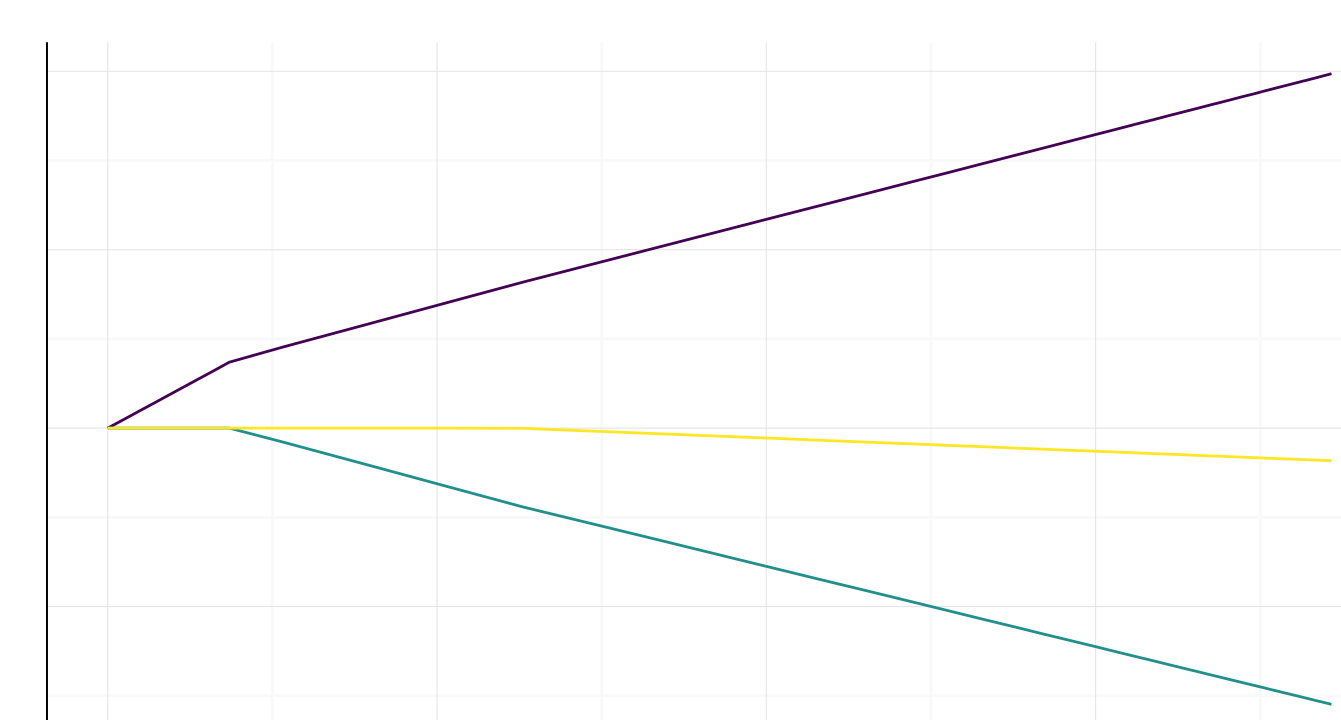
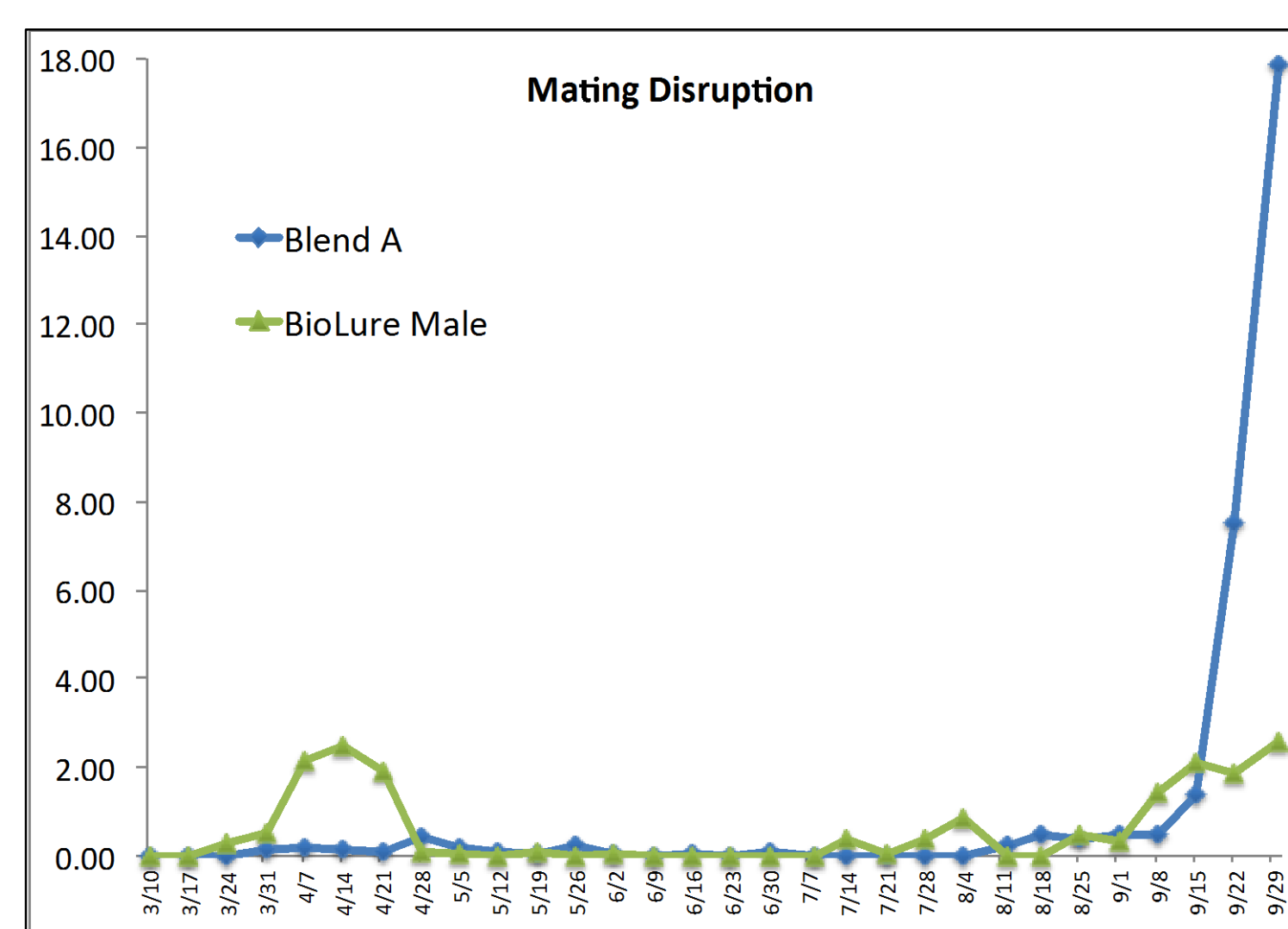
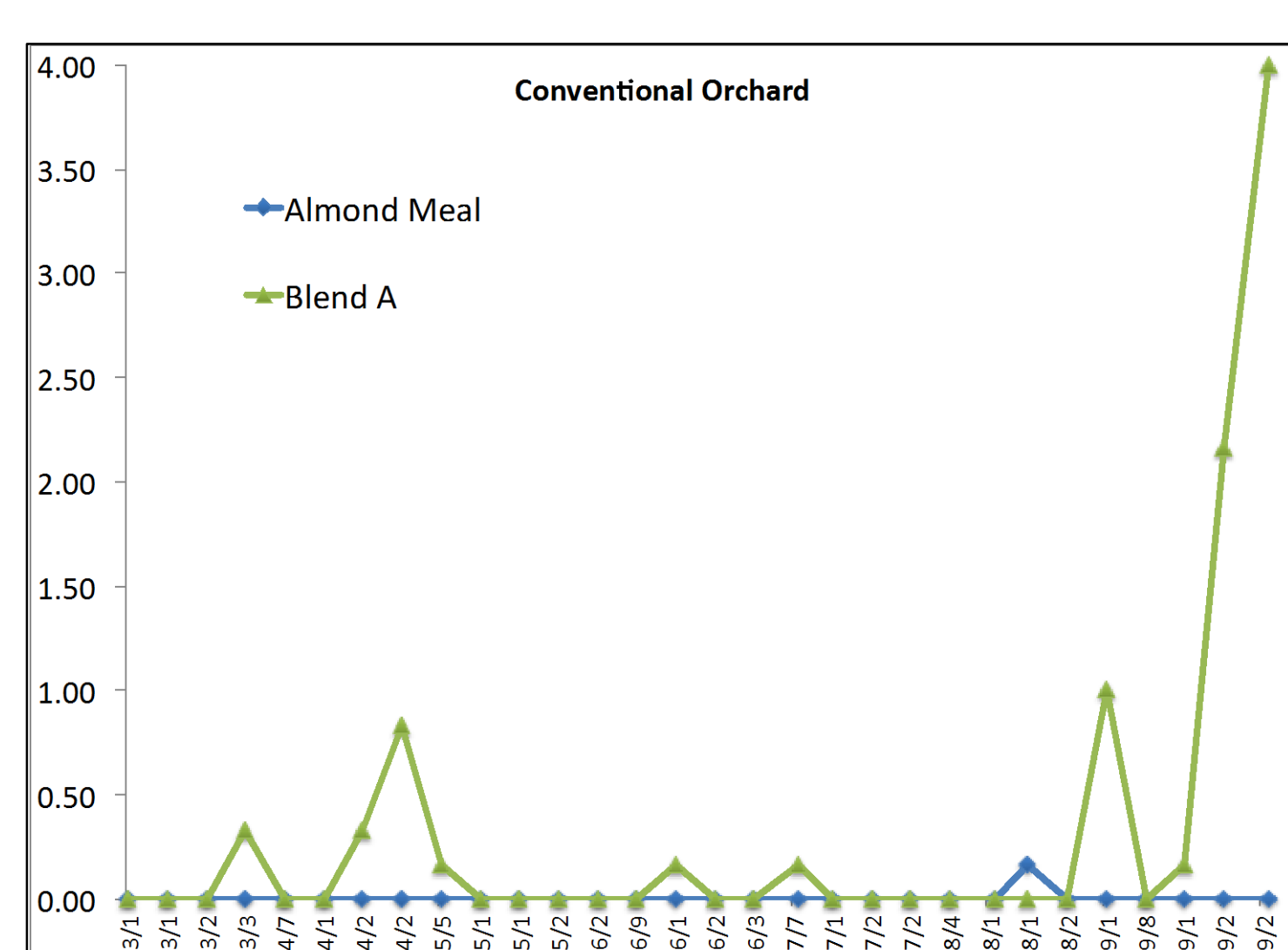


The Goal:

Using the Blend as a NOW monitoring tool, provide pest management practitioners with reliable guidance for making treatment decisions for navel orangeworm



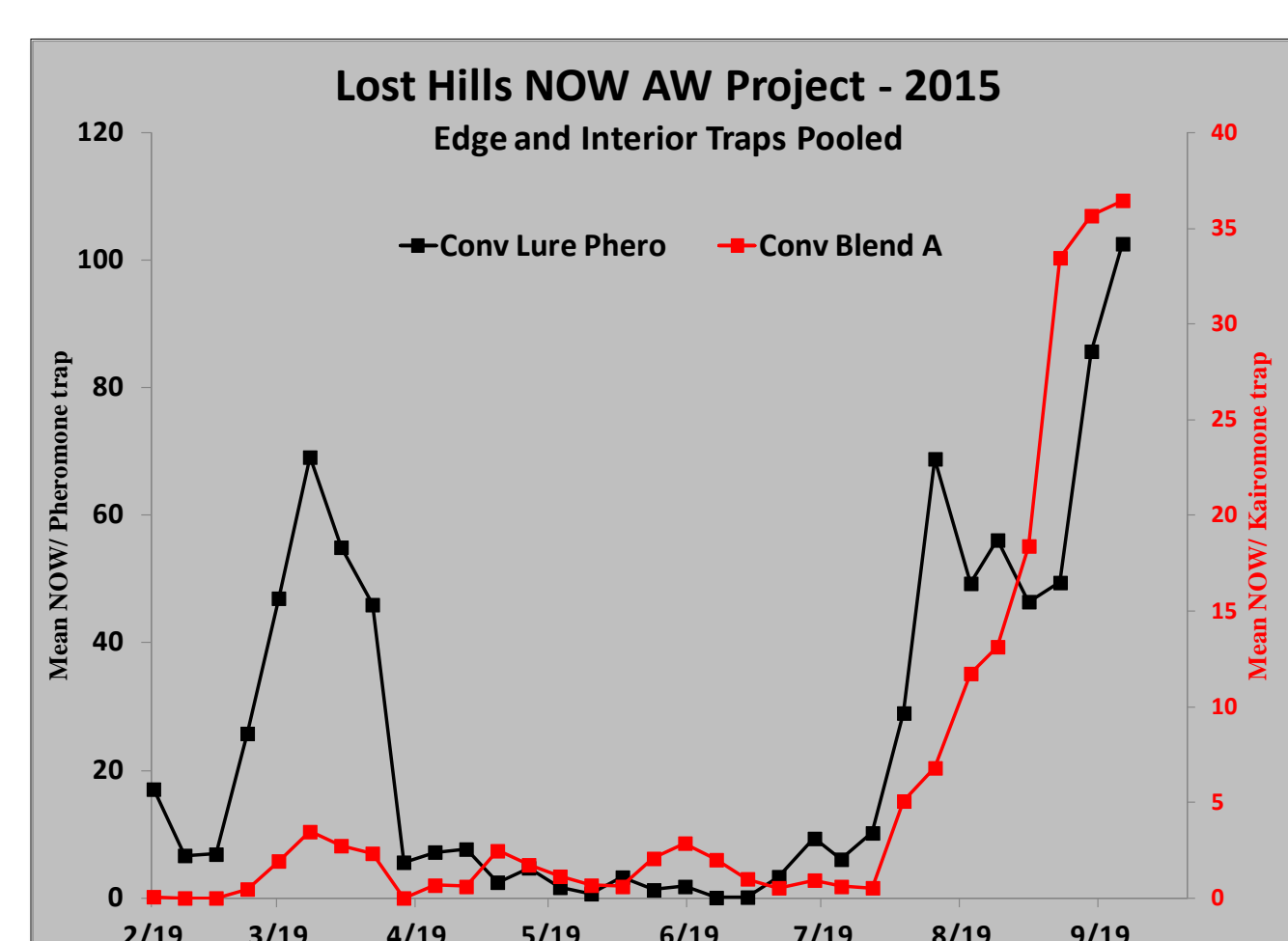
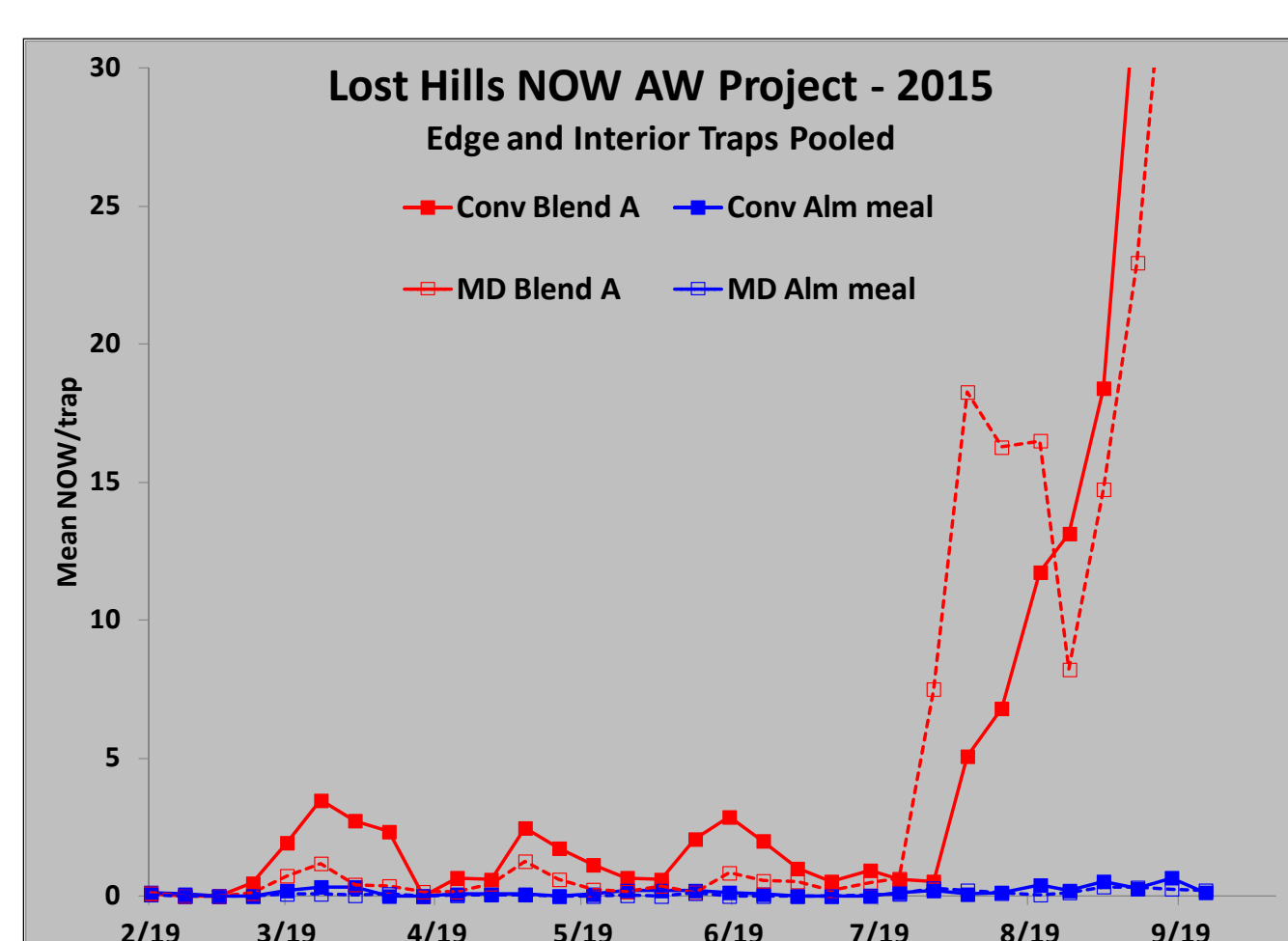
2016 Results (year 3)



30-30-30 Rule: The Blend

In Nonpareil almonds under conventional treatment, if growers maintain cumulative NOW under 30 moths trapped by week 30, they will have a 30% chance of developing <1% NOW damage by the end of the season

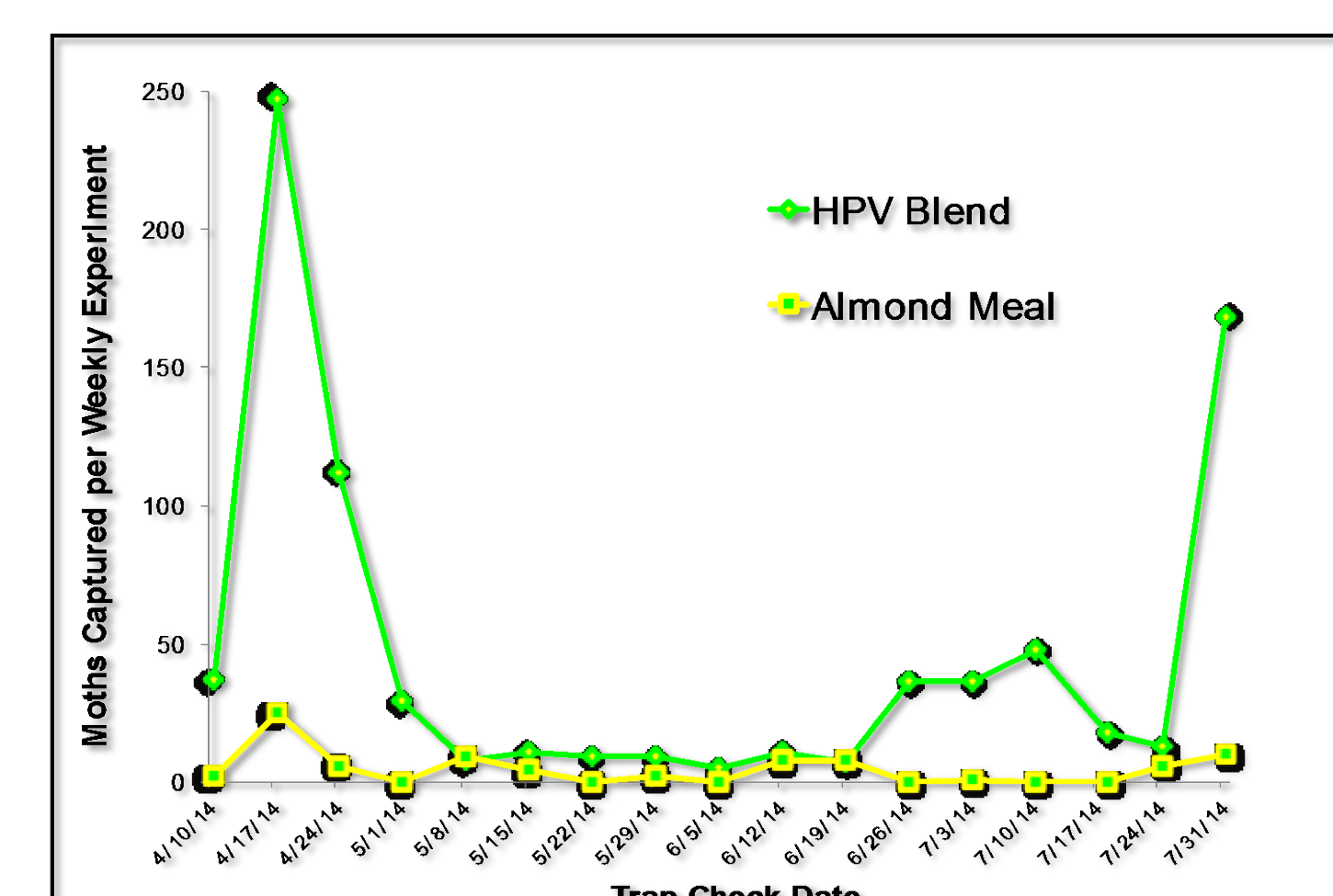
2015 Results (year 2)



Results Highlights

- Blend consistently outperformed almond meal in mating disruption treated and conventional almond orchards
- Blend can be used for monitoring NOW and trap catch numbers can be used to predict damage

2014 Results (year 1)



Multidisciplinary Project

Research was conducted under the following projects:
 TFCA 58-5325-4-042 Almond Board of California
 RCA 5325-42000-037-13 California Dept. Food and Agriculture
 USDA-ARS CRIS Project 5325-42000-037-00D