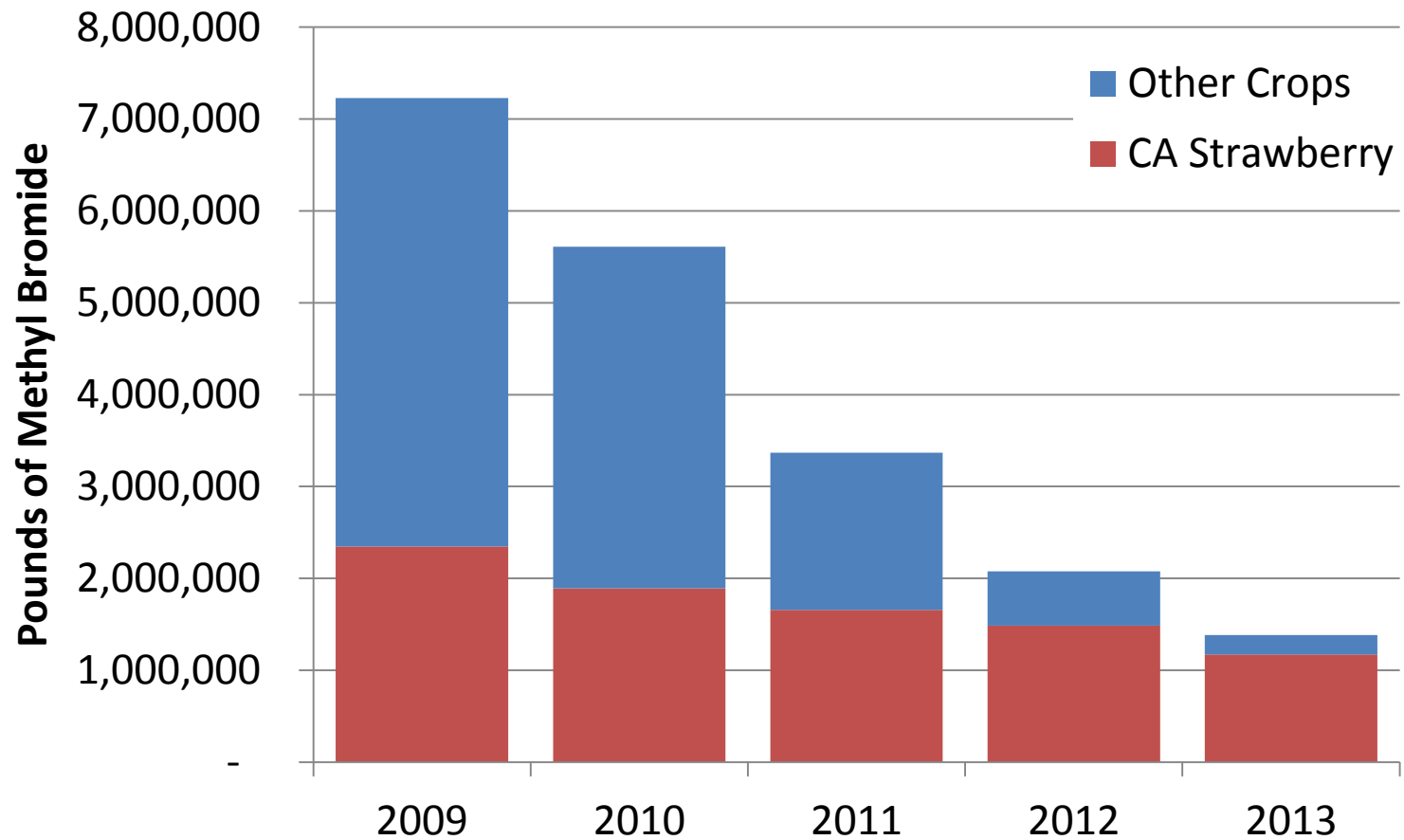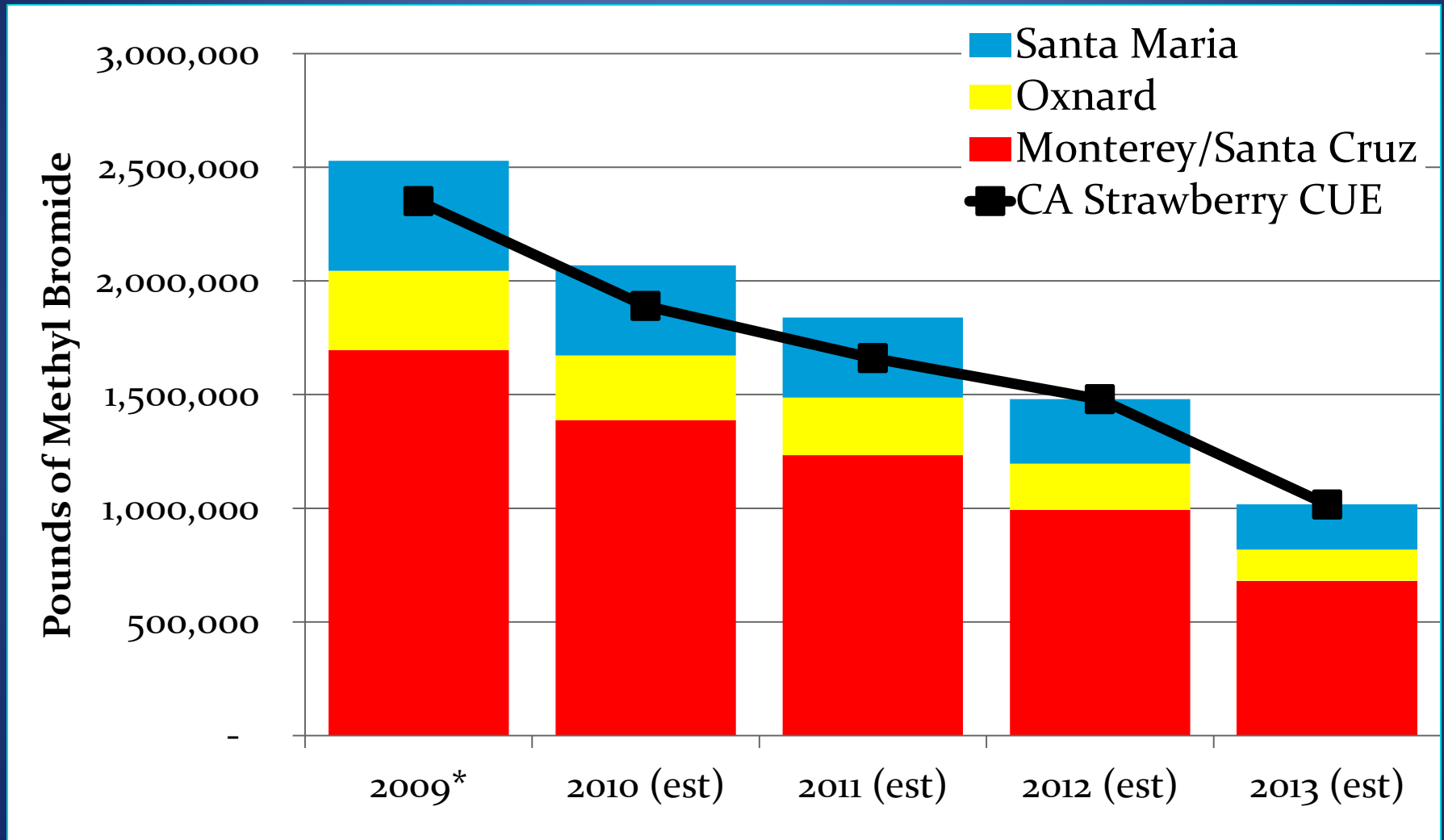# CSC Regulatory and Research Update

Dan Legard – Director of Research

Hillary Thomas – Research Manager

California Strawberry Commission

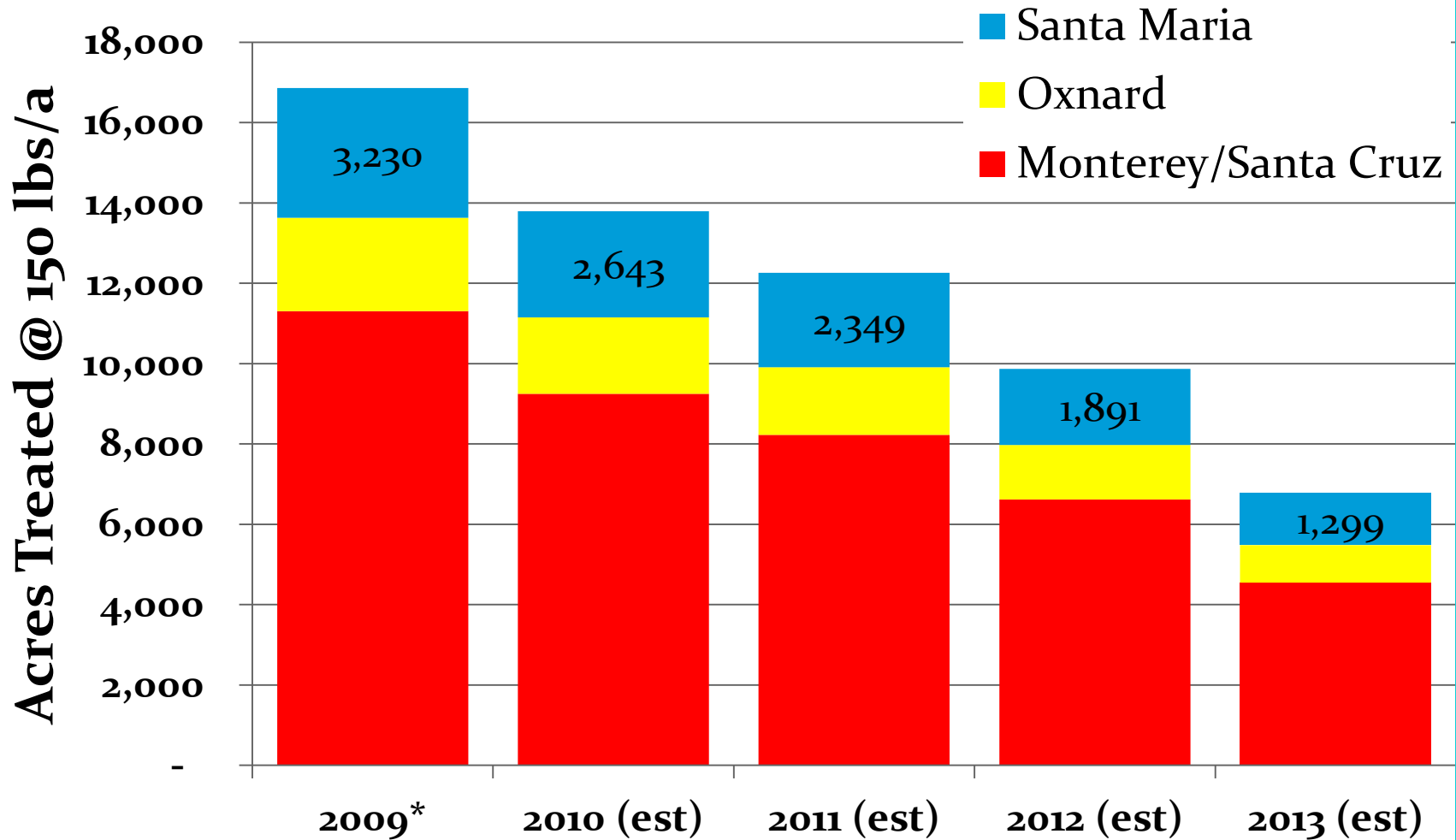# US MB CUEs for Pre-Plant Uses

Methyl Bromide Use on Strawberry

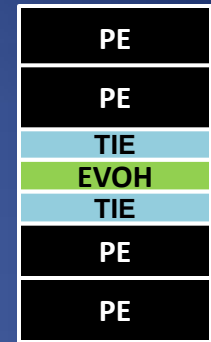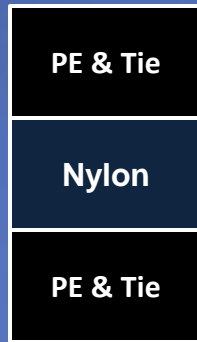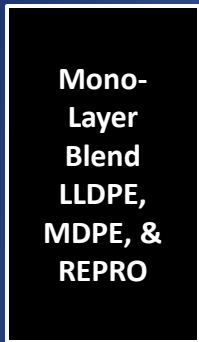*based on Cal DPR Pesticide use reports

Methyl Bromide Use on Strawberry
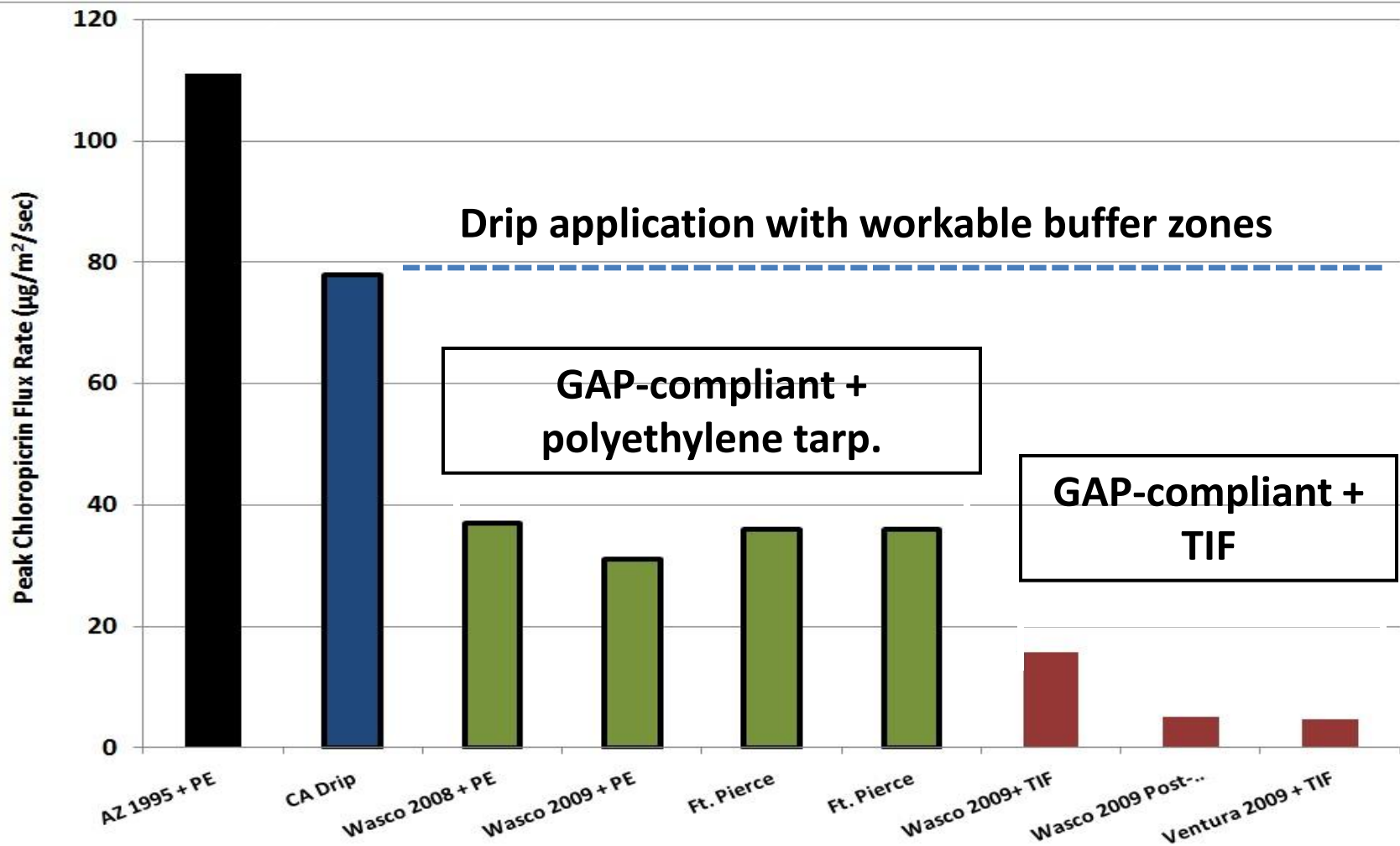
Other Fumigants - California

- Midas court case meets in January 2012
- Chloropicrin re-assessment to come out in 2012
  - May have significant changes to current restrictions

Various Film Structures

Mono-Layer Blend LLDPE, MDPE, & REPRO	Mono-Layer Blend LLDPE & MDPE	**PE & Tie** / **Nylon** / **PE & Tie**	**PE** / **TIE** / **Nylon** / **TIE** / **PE**	**PE** / **TIE** / **EVOH** / **TIE** / **PE**	**PE** / **PE** / **TIE** / **EVOH** / **TIE** / **PE** / **PE**
STD	**STD**	**3-layer VIF**	**5-layer VIF**	**5-layer TIF**	**7-layer TIF**
F U M I G A N T B A R R I E R					
POOR	POOR	MEDIUM	MEDIUM	HIGH	HIGH
P H Y S I C A L P R O P E R T I E S					
GOOD	HIGH	POOR	MEDIUM	POOR	HIGH

Chloropicrin Peak Flux Rates for Tarped Shallow Broadcast Applications

TIF use in CA strawberry

- Was some use in all of the main production regions
  - Primarily with broadcast applications of Telone C60
  - Some limited "trial" use with straight chloropicrin
- Cost of TIF is about 80% more than PE
- **Preliminary results**

2011 Lygus Monitoring Program:
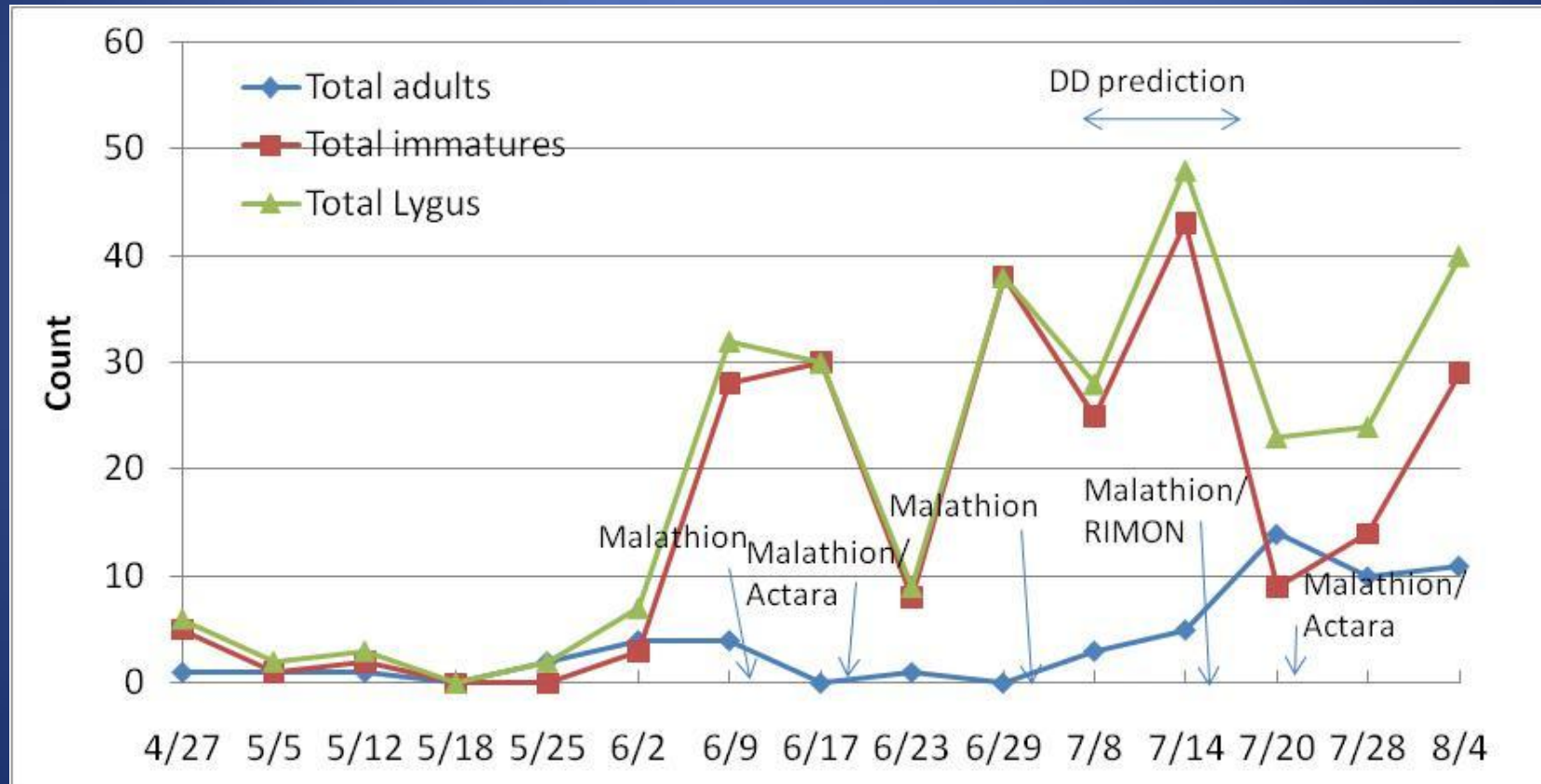## IPM for Industry

Lygus Management Project

Phase I -

- ✓ **Train growers to scout for Lygus (Jan/Feb)**

- ✓ **Site-specific weather stations -> growers implement the degree day model**

Phase II –
- ✓ **Conduct resistance testing to aid growers in spray decisions (July/Aug)**
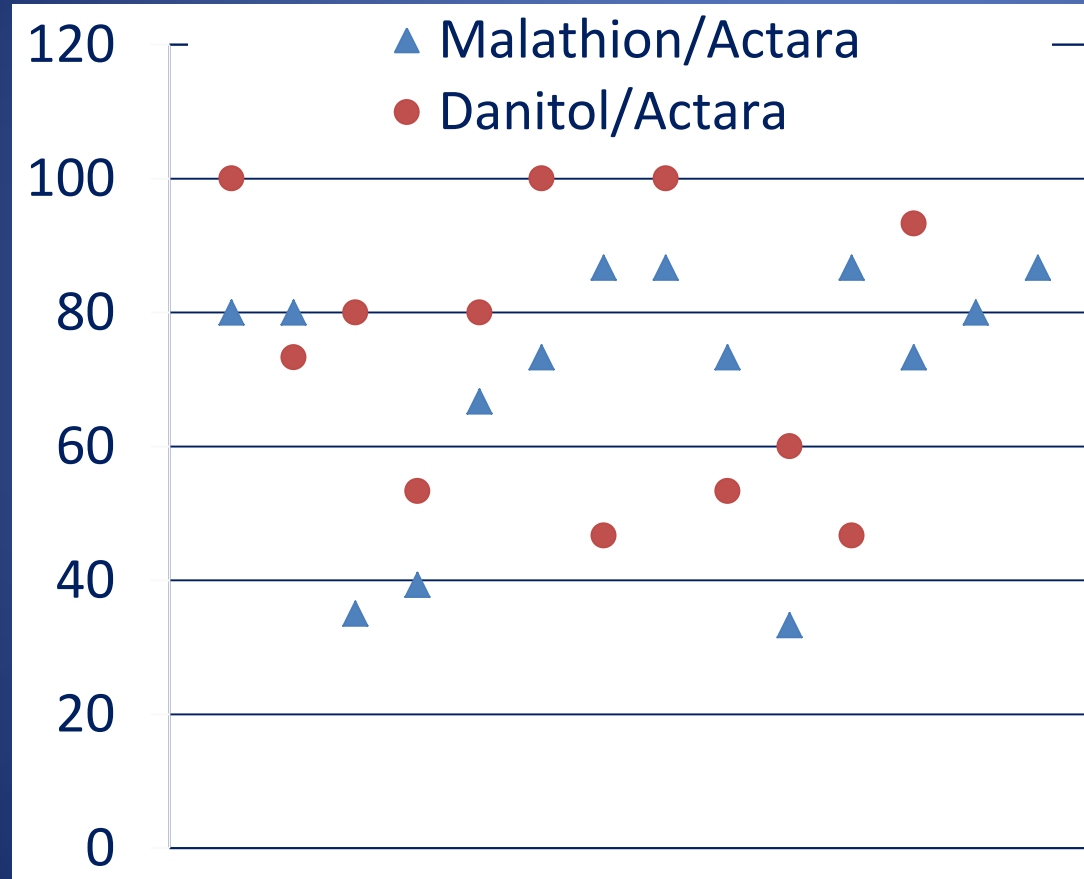
Results: Degree Day predictions were later than actual population peaks

• Possible causes: late set date, poor weather data

Results: Resistance Testing

- Dibrom/Actara tank Mix had 100 percent mortality at all but 1 site

- Results were variable and context specific

- Spray patterns were predictable from resistance data

Summary

Practice:

- Growers allocated largely to PCAs to sample
- Weekly systematic monitoring is rare; visual scouting is common
- OP and pyrethroid use is widespread; new chemistry insect growth regulators not as much, timing wasn't always optimal

Degree day Model:

- Predictions are difficult to fine-tune; systematic sampling necessary

Resistance Testing

- Resistance variable by site and practice

Thank You