

# Brown Marmorated Stink Bug (*Halyomorpha halys*)

BMSB Workgroup Meeting  
June 16, 2014

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<http://cesacramento.ucanr.edu>

**University of California**  
Agriculture and Natural Resources



# BMSB Finds in California

Alameda  
Los Angeles  
Riverside  
Sacramento  
San Diego  
San Francisco  
San Joaquin  
Solano  
Santa Clara

Also:  
Butte  
Monterey  
Yolo  
San Luis Obispo  
Siskiyou  
Sutter



Source - CDFA Plant Health and Pest  
Prevention Services Database, 2010

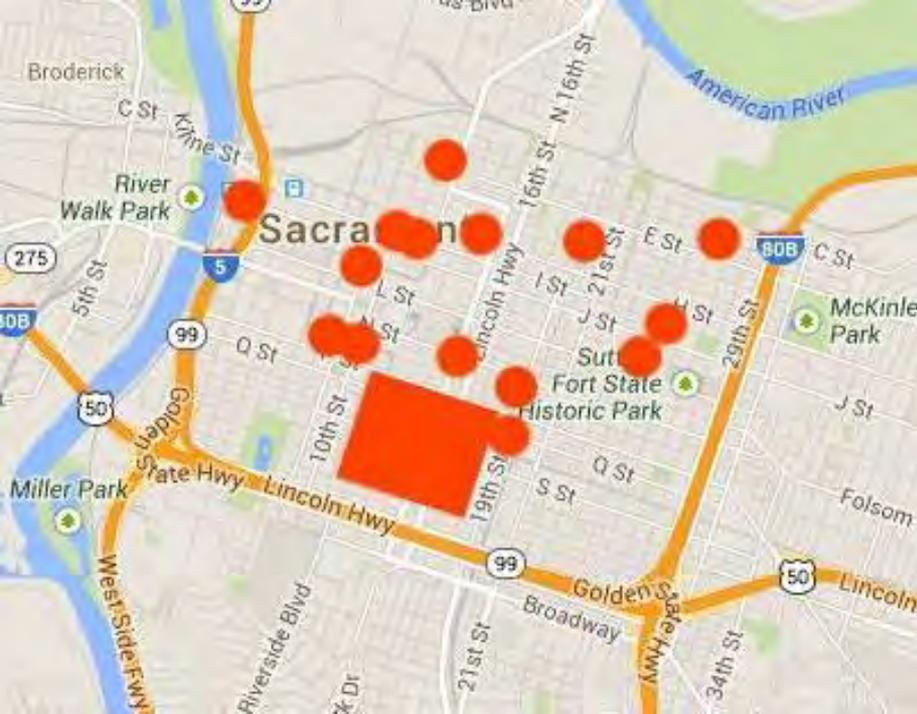
# BROWN MARMORATED STINK BUG *HALYOMORPHA HALYS* CALIFORNIA 2013



C. Pickett,  
CDFA



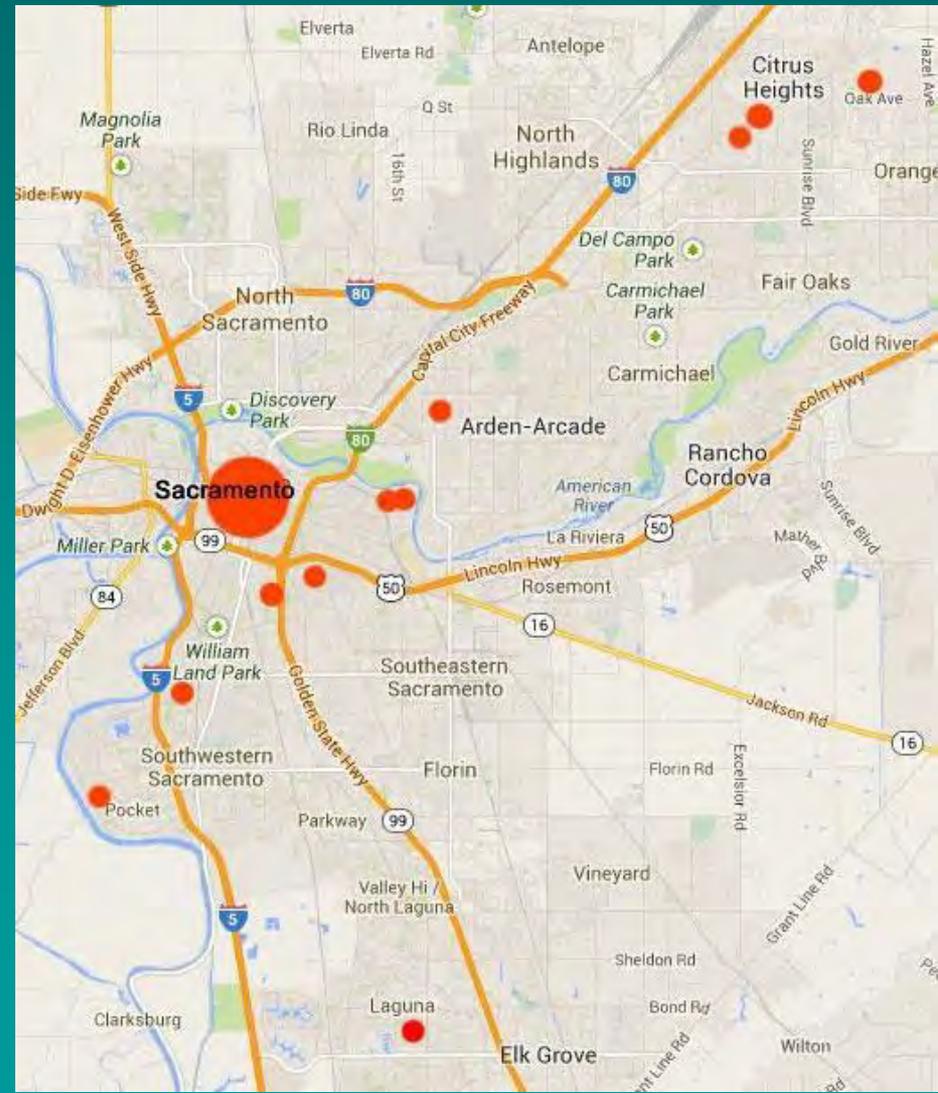
# BMSB Finds in Sacramento County



Oct. 15, 2013

June 1, 2014

[cesacramento.ucanr.edu](http://cesacramento.ucanr.edu)

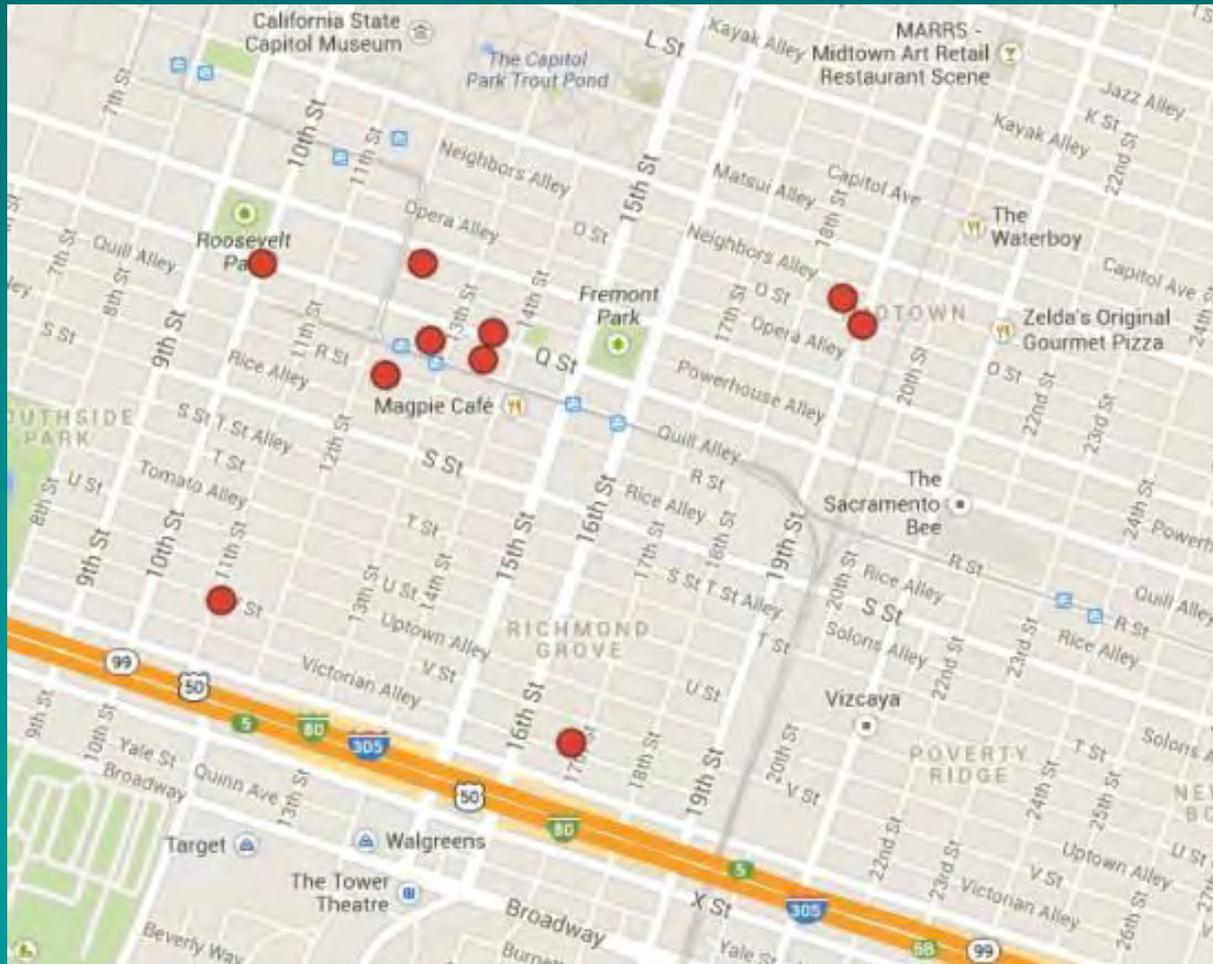


# BMSB Commodity Board Funding 2014

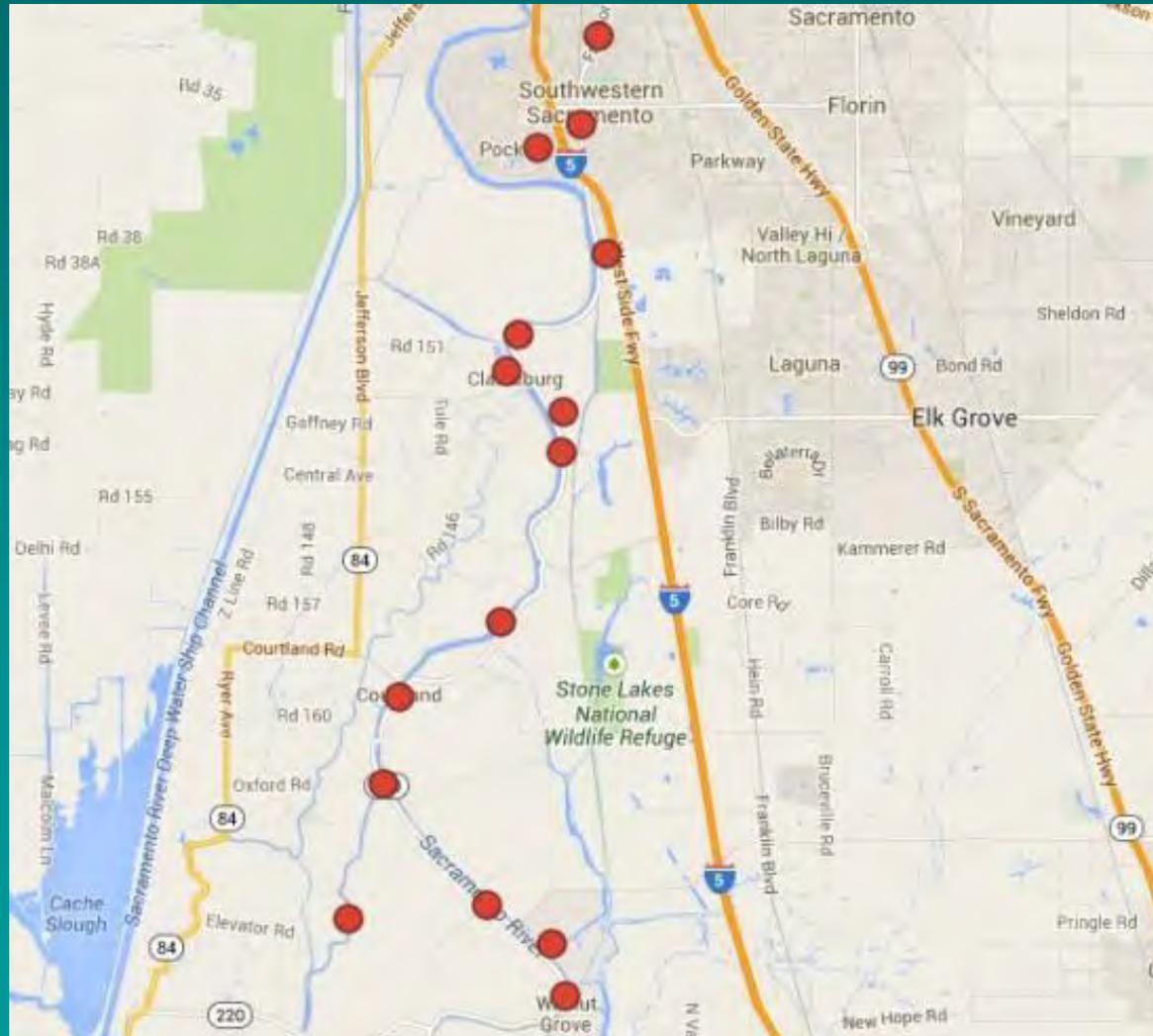
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- Calif. Pear Advisory Board (\$19,000)
  - » Sacramento – Phenology and monitoring
  - » North Coast – Monitoring
- Lodi Winegrape Commission (\$2,500)
  - » Sacramento – Monitoring

# Trap Sites in Midtown Sacramento Phenology Study

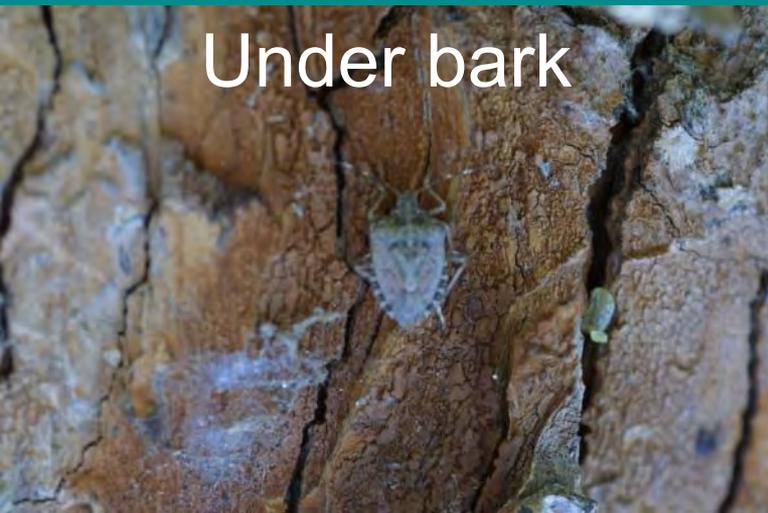
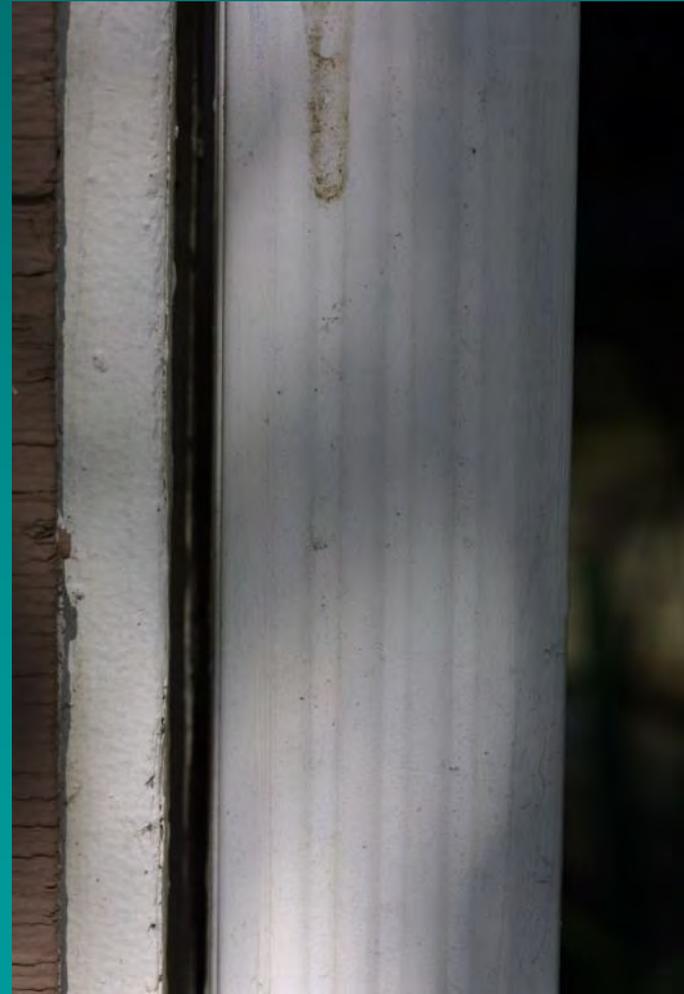


# Trap Sites South of Sacramento Detection Monitoring



# Sacramento March 2014

Downspout



# 1<sup>st</sup> Eggs on Spinach, Sacramento

May 5, 2014



# Species with Most Nymphs Sacramento, Spring 2014

Cherry



Peach / Nect.



Sunflower



Tree of heaven



Butterfly bush



Young elm



# *Pistachia chinensis* Species of Note



B. Villegas



C. Pickett



# Early Fruit Damage



Peach 5/12/14



Nectarine  
6/5/14



Asian  
pear  
6/11/14



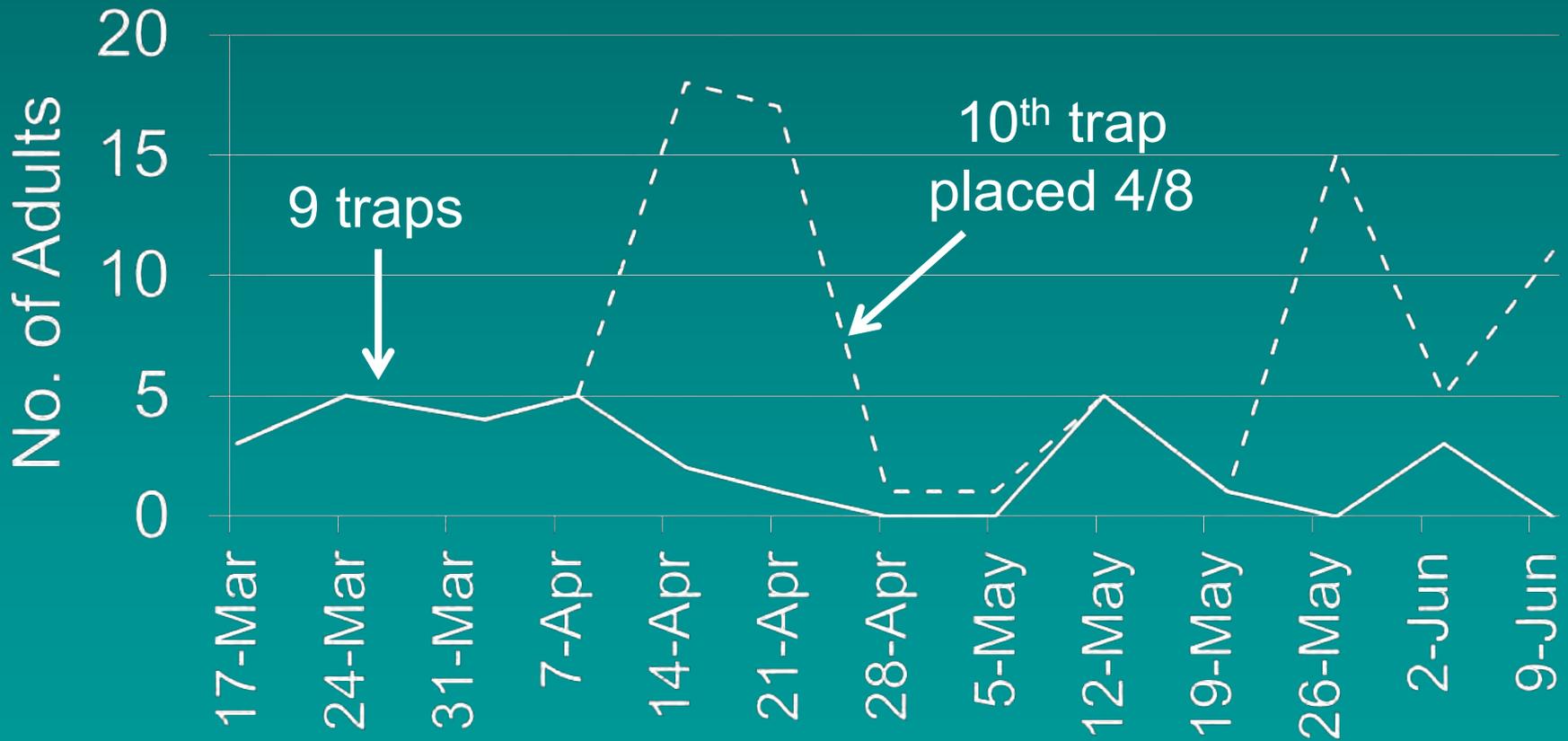
# BMSB Seasonal Development Model

## Generally 2 generations in Sacto./Lodi

- First adults trapped Mar. 17 (traps set Mar. 12)
- Development temperature thresholds:
  - » Lower: 57°F Upper: 97°F
- Complete generation: 1107DD (A. Nielsen)
  - » 968 DD (egg to adult) + 139 DD (to egg laying)
- First eggs found in 2014: May 5
  - » 2<sup>nd</sup> gen. eggs start July 23 (2 generations)
  - » 3<sup>rd</sup> gen. eggs start Sept. 25 – insufficient time
- 3 generations in Kern County

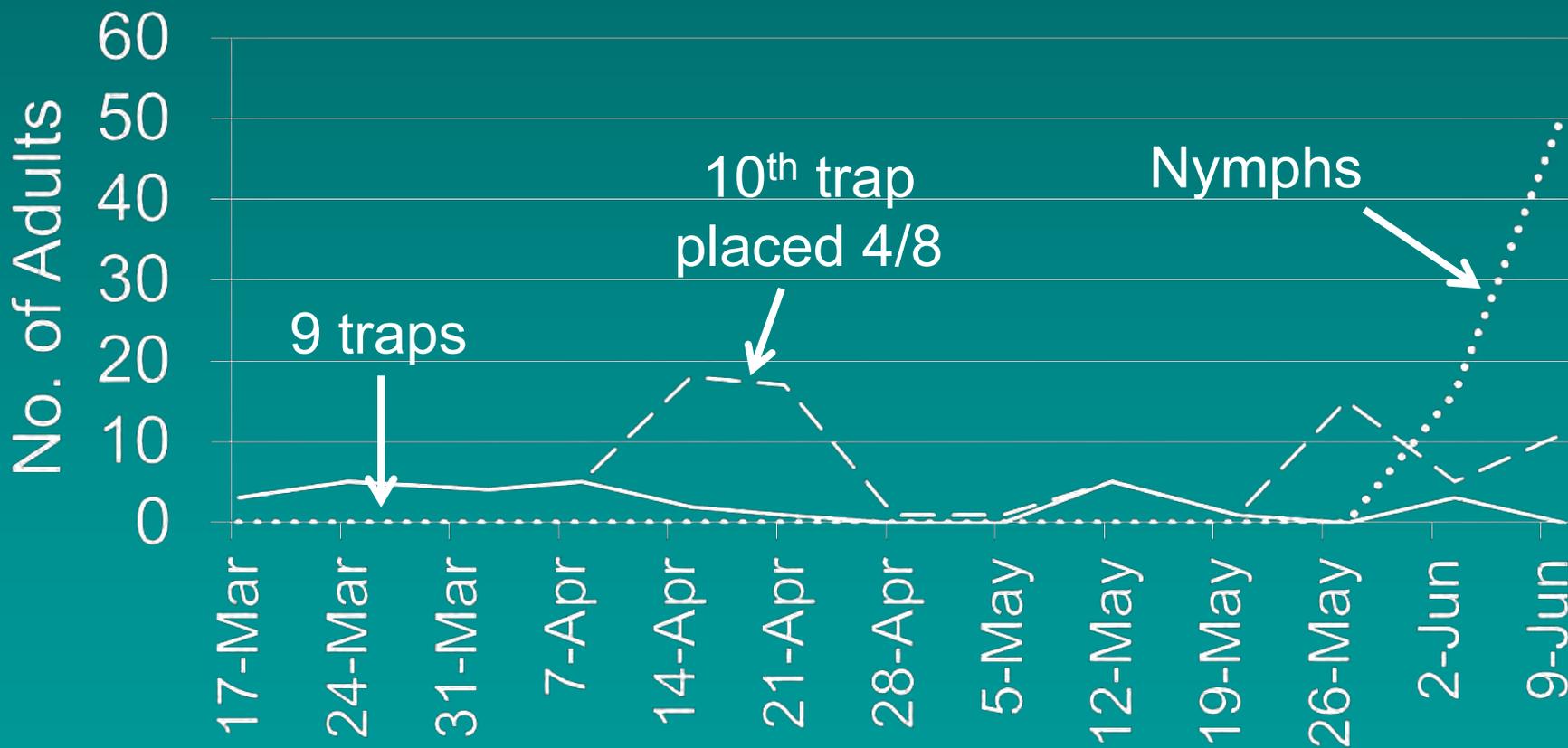
# 2014 Sacramento BMSB Trap Counts

## Totals for 10 Traps



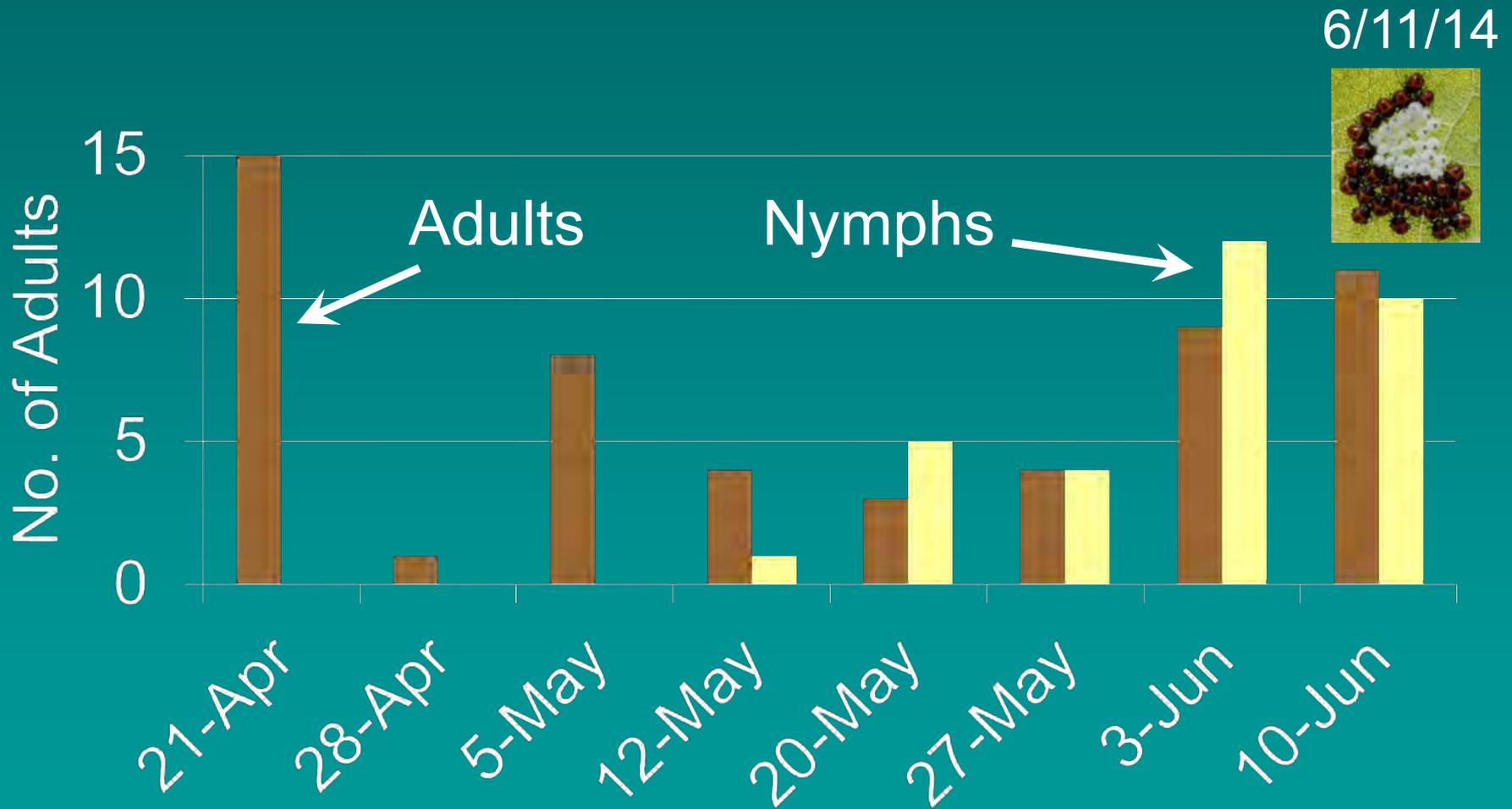
# 2014 Sacramento BMSB Trap Counts

## Totals for 10 Traps



# Foliage Searches of Susceptible Species

1-min. searches of 21 marked branches



# Predators We Saw Feeding on BMSB



Jumping spider

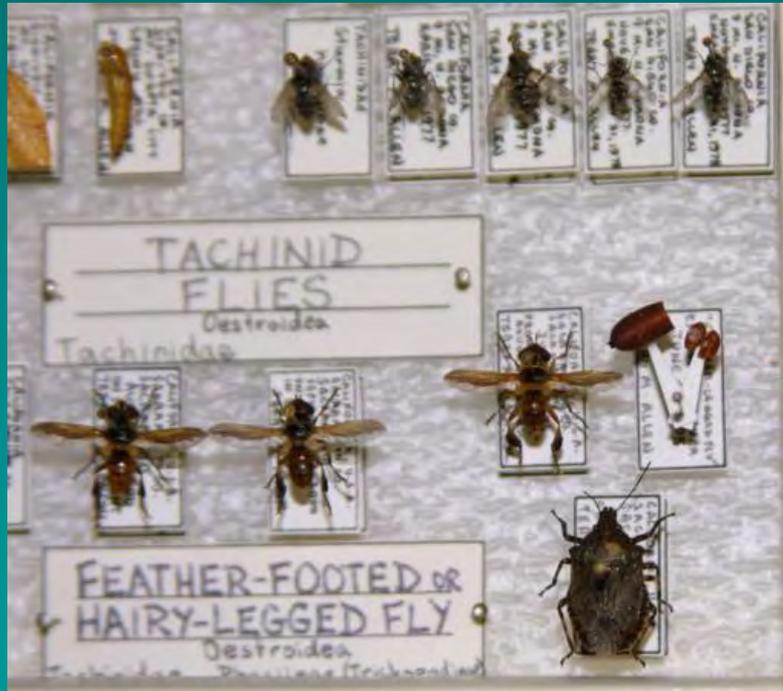
Assassin bug



LBJ (Little Brown Job)  
- Bird predator seen  
feeding on BMSB adults

# Feather-Legged Fly

*Trichopoda pennipes*



Rough  
stink  
bug

Mainly parasitizes squash bug &  
southern green stink bug